

# Safety Data Sheet

## Glycol Ether EB

SDS Revision Date: 02/02/2023



### 1. Identification

#### 1.1. Product identifier

**Product Identity** SOL-1054(Glycol Ether EB)  
**Alternate Names** 2-Butoxyethanol, Ethylene glycol monobutyl ether

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Intended use** See Technical Data Sheet.  
**Application Method** See Technical Data Sheet.

#### 1.3. Details of the supplier of the safety data sheet

**Company Name** Mac Coatings  
1106 WALKER ROAD  
WINDSOR, ONTARIO  
N8Y 2N7  
**Customer Service: Mac Coatings** (519)-252-7275

### 2. Hazard(s) identification

#### 2.1. Classification of the substance or mixture

Flam. Liq. 4; H227 Combustible liquid.  
Acute tox. oral 4; H302 + H312 + H332 Harmful if swallowed, in contact in skin or if inhaled.  
Skin irrit. 2; H315 Causes Skin irritation.  
Eye irrit. 2A; H319 Causes serious eye irritation.

#### 2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



**DANGER**

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H227	Combustible liquid.
H302 + H312 + H332	Harmful if swallowed, in contact with skin or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

### [Prevention]:

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P261 Avoid breathing Dust/Fume/Gas/Mist/Vapors/Spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves / Protective clothing / eye protection / face protection.

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P261 Avoid breathing Dust/Fume/Gas/Mist/Vapors/Spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

### [Response]:

P301+ 312 **If swallowed:** immediately call a poison center or a doctor/Physician if you feel unwell.

P330 Rinse mouth.

P302+352 **IF ON SKIN:** Wash with plenty of soap and water.

P304 + 312 **IF INHALED:** Call a poison center or doctor/physician if you feel unwell.

P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338 **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P332+313 If skin irritation occurs: Get medical advice / attention.

P337+313 If eye irritation persists: Get medical advice / attention.

P362 Take off contaminated clothing and wash before reuse.

P308 + 311 If exposed or concerned: Call a POISON CENTER or doctor/physician.

P337+313 **IF EYE IRRITATION PERSISTS:** Get medical advice/attention.

P370+378 **IN CASE OF FIRE:** Use dry sand, dry chemical or alcohol resistant foam for extinction.

### [Storage]:

P403+233 Store in a well ventilated place. Keep container tightly closed.

P403 + 235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

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### [Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

### 2.3. Other Hazards

Vapors can accumulate in low areas.

## 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Ethylene glycol monobutyl ether CAS Number: 0000111-76-2	100	Acute Tox. 4;H332 Acute Tox. 4;H312 Acute Tox. 4;H302 Eye Irrit. 2;H319 Skin Irrit. 2;H315	[1][2]

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

\*The full texts of the phrases are shown in Section 16.

## 4. First aid measures

### 4.1. Description of first aid measures

<b>General</b>	In all cases of doubt, or when symptoms persist, seek medical attention.
<b>Inhalation</b>	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. Get Medical attention immediately.
<b>Eyes</b>	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
<b>Skin</b>	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash before reuse.
<b>Ingestion</b>	DO NOT INDUCE VOMITING. If conscious, rinse out mouth with water.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>Overview</b>	Effects of overexposure: Acute: Eyes-may cause severe irritation, redness, tearing, blurred vision. Skin/skin absorption- Prolonged or repeated contact can cause moderate irritation.
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Defatting, dermatitis.

Breathing-excessive inhalation of vapors can cause nasal and Respiratory irritation and central nervous system effects including: Dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.

Swallowing-can cause gastrointestinal, irritation, nausea, vomiting, and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.

Exposure to solvent vapor concentrations in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system.

Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

<b>Inhalation</b>	May cause drowsiness or dizziness. May cause irritation of the mouth. Throat or esophagus.
<b>Eyes</b>	Causes eye irritation. May cause stinging/watering/redness/swelling.
<b>Skin</b>	Causes skin irritation.

## 5. Fire-fighting measures

### 5.1. Extinguishing media

Dry chemical alcohol Foam, Water fog, Carbon Dioxide.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Burning may produce irritating Or toxic fumes. Carbon dioxide and carbon monoxide, various hydrocarbons, etc.

Keep away from heat / sparks / open flames / hot surfaces - No smoking.

Keep cool.

Ground / bond container and receiving equipment.

Use explosion-proof electrical / ventilating / light / equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust / fume / gas / mist / vapors / spray.

Do not get in eyes, on skin, or on clothing.

### 5.3. Advice for fire-fighters

Evacuate hazard area. Wear self-contained breathing apparatus with a full face piece

Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near container (even empty) because

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product (even just residue) can ignite explosively. All five gallon pails and large metal containers should be grounded and/or bonded when material is transferred.

ERG Guide No. ---

### 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8). Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

#### 6.2. Environmental precautions

Do not allow spills to enter drains or waterways. Prevent further leakage or spillage if safe to do so.

#### 6.3. Methods and material for containment and cleaning up

Contain spillage and then collect with electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

### 7. Handling and storage

#### 7.1. Precautions for safe handling

See section 2 for further details. - [Prevention]:

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks, and open flames. Protect container from physical damage. Keep the container tightly closed when not in use. Store in a cool and well-Ventilated area.

See section 2 for further details. - [Storage]:

#### 7.3. Specific end use(s)

No data available.

### 8. Exposure controls and personal protection

#### 8.1. Control parameters

##### Exposure

CAS No.	Ingredient	Source	Value
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0000111-76-2	Ethylene glycol monobutyl ether	OSHA	TWA 50 ppm (240 mg/m3) [skin]
		ACGIH	TWA: 20 ppm Revised 2003,
		NIOSH	TWA 5 ppm (24 mg/m3) [skin]
		Supplier	No Established Limit

### 8.2. Exposure controls

- Respiratory** Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicated this is necessary.
- Eyes** Chemical goggles and face shield.
- Skin** Chemical resistant, impervious gloves complying with an approved standard should be worn at all times. Coveralls, apron, and boots as necessary to minimize contact.
- Engineering Controls** Use only in adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Other Work Practices** Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

## 9. Physical and chemical properties

<b>Appearance</b>	Colorless Liquid
<b>Odor</b>	Mild
<b>Odor threshold</b>	0.48 ppm
<b>pH</b>	Not Measured
<b>Melting point / freezing point</b>	-75°C/-103°F
<b>Initial boiling point and boiling range</b>	171-180°C
<b>Flash Point</b>	67°C
<b>Evaporation rate (N-Butyl Acetate = 1)</b>	(X) Slower Than N-BUTYL ACETATE
<b>Flammability (solid, gas)</b>	Flammable liquid
<b>Upper/lower flammability or explosive limits</b>	<b>Lower Explosive Limit:</b> 1.3% <b>Upper Explosive Limit:</b> 10.6%
<b>Vapor pressure (hPa)</b>	1.33
<b>Vapor Density</b>	(X)Heavier Than Air ( )Lighter than Air
<b>Specific Gravity</b>	0.9

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<b>Solubility in Water</b>	Miscible
<b>Partition coefficient n-octanol/water (Log Kow)</b>	Not Measured
<b>Auto-ignition temperature</b>	230°C
<b>Decomposition temperature</b>	Not Measured
<b>Viscosity (cSt)</b>	Not Measured
<b>Percent Volatile (by volume)</b>	100

### 9.2. Other information

No other relevant information.

## 10. Stability and reactivity

### 10.1. Reactivity

Hazardous Polymerization will not occur.

### 10.2. Chemical stability

Stable under normal circumstances.

### 10.3. Possibility of hazardous reactions

Vapors may form an explosive mixture with air.

### 10.4. Conditions to avoid

High temperatures, flames, sparks

### 10.5. Incompatible materials

Avoid contact with: Strong acids and oxidizing materials.

### 10.6. Hazardous decomposition products

Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.

## 11. Toxicological information

### Acute toxicity

Respiratory irritation

An inhalation hazard may only arise if product is used in aerosol conditions if heated up. The material is misted or if the vapors are generated from heating. Exposure may cause irritation of mucous membranes and upper respiratory tract.

Eye irritation

Causes serious eye irritation.

Skin Irritation

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Causes mild skin irritation

Sensitization

Not expected to cause skin or respiratory sensitization.

Aspiration Hazard

If swallowed can be aspirated into lungs and cause chemical pneumonia, varying degrees of pulmonary injury or death.

If swallowed, do not induce vomiting.

### Chronic Exposure

Vapor/aerosol concentrations above recommended exposure levels are irritating to the eyes and respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects including death.

Prolonged or repeated direct exposure to the skin results in symptoms of irritation and redness, dermatitis or oil acne.

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Ethylene glycol monobutyl ether - (111-76-2)	1,414.00, Guinea Pig - Category: 4	1,200.00, Guinea Pig - Category: 4	173.00, Guinea Pig - Category: NA	No data available	No data available

### Carcinogen Data

CAS No.	Ingredient	Source	Value
0000111-76-2	Ethylene glycol monobutyl ether	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;

Classification	Category	Hazard Description
Acute toxicity (oral)	4	Harmful if swallowed, in contact with skin, or inhaled.
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	2	Causes skin irritation.
Eye damage/irritation	2A	Causes serious eye irritation.
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable



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Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

## 12. Ecological information

### 12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

### Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 Crustacia, mg/l	ErC50 algae, mg/l
Ethylene glycol monobutyl ether - (111-76-2)	220.00, Fish (Piscis)	1,000.00, Daphnia magna	Not Available

### 12.2. Persistence and degradability

No data available.

### 12.3. Bioaccumulative potential

No bioaccumulation is to be expected.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

No data available.

### 12.6. Other adverse effects

No data available.

## 13. Disposal considerations

### 13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

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### 14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	NA 1993	NA 1993	NA 1993
14.2. UN proper shipping name	NA 1993	NA 1993	NA 1993
14.3. Transport hazard class(es)	DOT Hazard Class: CBL	IMDG: CBL Sub Class: Not Applicable	Air Class: CBL
14.4. Packing group	III	III	III
14.5. Environmental hazards			
IMDG	No further information		
14.6. Special precautions for user	No further information		

### 15. Regulatory information

**Regulatory Overview** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

**Toxic Substance Control Act ( TSCA)** All components of this material are either listed or exempt from listing on the TSCA Inventory.

**US EPA Tier II Hazards**

Fire: Yes  
Sudden Release of Pressure: No  
Reactive: No  
Immediate (Acute): Yes  
Delayed (Chronic): No

**EPCRA 311/312 Chemicals and RQs (lbs):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 302 Extremely Hazardous:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 313 Toxic Chemicals:**

2-Butoxyethanol

**Proposition 65 - Carcinogens (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

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**Proposition 65 - Developmental Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Female Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Male Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**New Jersey RTK Substances (>1%):**

2-Butoxyethanol

**Pennsylvania RTK Substances (>1%):**

2-Butoxyethanol

### 16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

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