

# **SAFETY DATA SHEET**

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1 Product identifiers

Product name Glycol Ether EB

CAS number 111-76-2

Synonyms 2-butoxyethanol, Ethylene glycol monobutyl ether

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

Identified uses Laboratory chemicals. Solvent.

# 1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

#### 1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

#### **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 4)

Acute oral toxicity (Category 4)

Acute inhalation toxicity (Category 4)

Acute dermal toxicity (Category 4)

Skin Irritation (Category 2)

Eye Irritation (Category 2A)

Specific target organ toxicity - single exposure (Category 3)

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# 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Warning

Hazard statements Combustible liquid.

Harmful if swallowed, in contact with skin or if inhaled.

Causes skin irritation.

Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.

Precautionary statements

Keep away from heat/ sparks/ open flames/ hot surfaces.

No smoking.

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

Wash skin thoroughly after handling.

Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

Wear protective gloves/ eye protection/ face protection.

IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse

mouth.

IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if

vou feel unwell.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to

extinguish.

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container to an approved waste disposal plant.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
2-butoxyethanol	Glycol Ether EB, Ethylene glycol monobutyl ether	111-76-2	90 - 100%

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#### **SECTION 4: First aid measures**

## 4.1 Description of first-aid measures

#### General advice

**If unconscious**, place in recovery position and seek medical advice.

**In case of skin contact** If symptoms persist, call a physician. If skin irritation persists, call a

physician. If on skin, rinse well with water. If on clothes, remove clothes.

**In case of eye contact** Immediately flush eye(s) with plenty of water. Remove contact lenses.

Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation

persists, consult a specialist.

If swallowed Clean mouth with water and drink afterwards plenty of water. Keep

respiratory tract clear. Do not induce vomiting without medical advice. Do not

give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim

immediately to hospital.

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

No information available.

## 4.3 Indication of any immediate medical attention and special treatment needed

Note to Physician: Treat symptomatically.

#### **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media Carbon dioxide (CO2). Water spray. Dry chemical.

Chemical foam.

**Unsuitable extinguishing media** High volume water jet.

# 5.2 Specific hazards arising from the substance or mixture

Do not allow run-off from fire fighting to enter drains or water courses.

# 5.3 Special protective equipment and precautions for firefighters

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As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 5.4 Further information

**Flash Point** 67 - 72 °C / 153 - 162 °F

**Autoignition Temperature** 230 - 245 °C

**Explosion limits** 

**Upper** 10.6 %(V) **Lower** 1.1 %(V)

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

**NFPA** 

Health	Flammability	Instability	Physical hazards
2	2	0	0

## **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ensure adequate ventilation.

# 6.2 Environmental precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

## 6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see section 13). Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

#### **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

#### Precautions on safe handling

Avoid formation of aerosol. Do not breathe vapours/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.

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### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

# 7.2 Conditions for safe storage, including any incompatibilities

# **Storage conditions**

No smoking. Keep in a well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

## Incompatibilities

Acids. Aluminum. Bases. Oxidizing agents. Amines. Ammonia.

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Occupational exposure limits

### **US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Component	Type	Value		
2-Butoxyethanol	TWA	50 ppm	240 mg/m3	

#### **US. ACGIH Threshold Limit Values**

Component	Туре	Value
2-Butoxyethanol	TWA	20 ppm

#### **US. NIOSH: Pocket Guide to Chemical Hazards**

Component	Туре	Value	
2-Butoxyethanol	TWA	5 ppm	24 mg/m3

#### Biological occupational exposure limits

No information available.

## 8.2 Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protective equipment

# **Eye/face protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

### **Skin protection**

Wear appropriate protective gloves.

#### **Body Protection**

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Wear appropriate clothing to prevent skin exposure.

### Respiratory protection

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

## Control of environmental exposure

Do not let product enter the drains.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Physical State Liquid
Appearance Colorless

Odor Mild, sweet, ester-like

Odor Threshold 0.48 ppm

pH No information available.

Melting Point/Range -75 - -74.8 °C / -103 - -102.6 °F Boiling Point/Range 171 - 173.5 °C / 340 - 344.3 °F

Evaporation Rate 0.06 - 0.1

Flammability (solid) No information available.

Flammability or explosive limit

Upper 10.6 %(V) Lower 1.1 %(V)

Vapor Pressure  $0.60 - 0.8775 \text{ mmHg} @ 20 - 25 ^{\circ}\text{C} / 68 - 77 ^{\circ}\text{F}$ Vapor Density  $> 4 @ 20 - 25 ^{\circ}\text{C} / 68 - 77 ^{\circ}\text{F} \text{ (Air = 1.0)}$ 

Density 0.9 g/cm3 @ 20 °C / 68 °F

Solubility 900 g/L completely miscible @ 25 °C / 77 °F

Partition coefficient; Pow: 6.46 @ 25 °C / 77 °F n-octanol/water log Pow: 0.81 @ 25 °C / 77 °F

Autoignition Temp 230 - 245 °C

Decomposition Temp No information available.

dynamic: 3.3 mPa.s @ 20 °C / 68 °F kinetic: 3.642 - 3.7 mm2/s @ 20 °C / 68 °F

Molecular Formula C6H14O2
Molecular Weight 118.2

VOC Content(%)

Oxidizing properties

No information available.

No information available.

# 9.2 Other safety information

Viscosity

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# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

None known, based on information available.

# 10.2 Chemical stability

Stable under normal conditions.

## 10.3 Possibility of hazardous reactions

Reacts with air to form peroxides.

#### 10.4 Conditions to avoid

Keep away from heat, flame, sparks, and other ignition sources.

# 10.5 Incompatible materials

Acids, aluminum. bases, oxidizing agents, amines, ammonia.

# 10.6 Hazardous decomposition products

Carbon oxides, aldehydes, ketones, organic acids

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

## **Product Information, Component Information**

**Acute toxicity** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
2-Butoxyethanol	1314 mg/kg	1112 mg/kg	2.56 mg/L

#### Skin corrosion/irritation

Irritating to skin.

## Serious eye damage/eye irritation

Irritating to eyes.

## Respiratory or skin sensitization

No information available.

## Germ cell mutagenicity

No information available.

Carcinogenicity

<u> </u>						
Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
2-Butoxyethanol	111-76-2	Not listed	Not listed	A3	Not listed	A3

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# Specific target organ toxicity - single exposure

None known.

# Specific target organ toxicity - repeated exposure

None known.

### Reproductive toxicity

No information available.

#### **Chronic effects**

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

## 11.2 Additional Information

The toxicological properties have not been fully investigated.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Product		Species	Test Results		
2-Butoxyethanol	EC50	freshwater algae	1840 mg/L	72 h	
	LC50	freshwater fish	1490 mg/L	96 h	
	LC50	freshwater fish	2950 mg/L	96 h	
	EC50	water flea	1550 mg/L	48 h	
	EC50	water flea	> 1000 mg/L	48 h	
	EC50	water flea	1698-1940 mg/L	24 h	

# 12.2 Persistence and degradability

Persistence is unlikely.

## 12.3 Bio accumulative potential

No information available.

# 12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

### 12.5 Results of PBT and vPvB assessment

No information available.

## 12.6 Endocrine disrupting properties

No information available.

# 12.7 Other adverse effects

No information available.

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# **SECTION 13: Disposal considerations**

## 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# **SECTION 14: Transport information**

DOT (US)

UN-no NA1993

Proper Shipping Name Combustible liquid, n.o.s (2-butoxyethanol)

Hazard Class CBL Packing Group III

**IMDG** 

UN-no NA1993

Proper Shipping Name Combustible liquid, n.o.s (2-butoxyethanol)

Hazard Class CBL Packing Group III

**IATA** 

UN-no NA1993

Proper Shipping Name Combustible liquid, n.o.s (2-butoxyethanol)

Hazard Class CBL Packing Group III

# **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)
SARA 302 Extremely hazardous substance

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Not listed.

#### SARA 311/312 Hazardous

Listed. See section 2 for more information.

# SARA 313 (TRI reporting)

Regulated. 2-butoxyethanol (111-76-2). Weight: < 100%.

Threshold values: 1.0%

# Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Regulated.

### Safe Drinking Water Act

Not regulated.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed.

## **US** state regulations

**US. Massachusetts RTK - Substance List** 

Listed. 2-butoxyethanol (111-76-2).

**US. New Jersey Worker and Community Right-to-Know Act** 

Listed. 2-butoxyethanol (111-76-2).

US. Pennsylvania Worker and Community Right-to-Know Law

Listed. 2-butoxyethanol (111-76-2).

#### **California Proposition 65**

Not listed.

## **SECTION 16: Other information**

Issue date: 09/24/2024

# **SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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