

# MATERIAL SAFETY DATA SHEET

## 2-(2-BUTOXYETHOXY)-ETHANOL

MSDS Name: 2-(2-BUTOXYETHOXY)- ETHANOL, 99+%  
Synonyms:

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
112-34-5	2-(2-BUTOXYETHOXY)-ETHANOL	99+%	203-961-6

#### Hazard Symbols:



XI

#### Risk Phrases:

36

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

*Irritating to eyes.*

#### Potential Health Effects

**Eye:** Causes eye irritation.  
**Skin:** May cause skin irritation.  
**Ingestion:** The toxicological properties of this substance have not been fully investigated.  
**Inhalation:** Effects may be delayed. Causes delayed lung injury. Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. May cause severe allergic respiratory reaction.  
**Chronic:**

### Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.  
**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
**Ingestion:** Get medical aid. Wash mouth out with water.  
**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:**

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## Section 5 - Fire Fighting Measures

<b>General Information:</b>	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. May form explosive peroxides.
<b>Extinguishing Media:</b>	In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

## Section 6 - Accidental Release Measures

<b>General Information:</b>	Use proper personal protective equipment as indicated in Section 8.
<b>Spills/Leaks:</b>	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.

## Section 7 - Handling and Storage

<b>Handling:</b>	Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.
<b>Storage:</b>	Store in a cool, dry place. Store in a tightly closed container. May form explosive peroxides on prolonged storage.

## Section 8 - Exposure Controls, Personal Protection

<b>Engineering Controls:</b>	Use adequate ventilation to keep airborne concentrations low.
<b>Exposure Limits</b>	CAS# 112-34-5: Germany: 100 mg/m3 TWA Netherlands: 9 ppm MAC; 50 mg/m3 MAC Spain: 100 mg/m3 VLA-ED

### Personal Protective Equipment

<b>Eyes:</b>	Wear safety glasses and chemical goggles if splashing is possible.
<b>Skin:</b>	Wear appropriate protective gloves and clothing to prevent skin exposure.
<b>Clothing:</b>	Wear appropriate protective clothing to minimize contact with skin.
<b>Respirators:</b>	Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

## Section 9 - Physical and Chemical Properties

<b>Physical State:</b>	Clear liquid
<b>Color:</b>	APHA: 10 max
<b>Odor:</b>	characteristic odor - faint odor - mild odor
<b>pH:</b>	Not available
<b>Vapor Pressure:</b>	.01 mm Hg @ 20 deg C
<b>Viscosity:</b>	6.16 mPa.s 20 deg C
<b>Boiling Point:</b>	231 deg C @ 760.00mm Hg
<b>Freezing/Melting Point:</b>	0 deg C
<b>Autoignition Temperature:</b>	227 deg C
<b>Flash Point:</b>	78 deg C
<b>Explosion Limits: Lower:</b>	.07 vol %
<b>Explosion Limits: Upper:</b>	5.30 vol %
<b>Decomposition Temperature:</b>	Not available
<b>Solubility in water:</b>	Soluble
<b>Specific Gravity/Density:</b>	0.955
<b>Molecular Formula:</b>	C8H18O3
<b>Molecular Weight:</b>	162.23

## Section 10 - Stability and Reactivity

<b>Chemical Stability:</b>	Not available
<b>Conditions to Avoid:</b>	Incompatible materials.
<b>Incompatibilities with Other Materials</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Carbon monoxide, carbon dioxide.
<b>Hazardous Polymerization</b>	Has not been reported.

## Section 11 - Toxicological Information

<b>RTECS#:</b>	CAS# 112-34-5: KJ9100000
<b>LD50/LC50:</b>	RTECS: <b>CAS# 112-34-5:</b> Draize test, rabbit, eye: 20 mg Severe; Draize test, rabbit, eye: 20 mg/24H Moderate; Oral, mouse: LD50 = 2400 mg/kg; Oral, mouse: LD50 = 6050 mg/kg; Oral, rabbit: LD50 = 2200 mg/kg; Oral, rat: LD50 = 5660 mg/kg; Oral, rat: LD50 = 4500 mg/kg; Skin, rabbit: LD50 = 2700 mg/kg;.
<b>Carcinogenicity:</b>	2-(2-BUTOXYETHOXY)-ETHANOL - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
<b>Other:</b>	The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

## Section 12 - Ecological Information

Not available

## Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

## Section 14 - Transport Information

	<b>IATA</b>	<b>IMO</b>	<b>RID/ADR</b>
<b>Shipping Name:</b>	Not available	Not available	Not available
<b>Hazard Class:</b>			
<b>UN Number:</b>			
<b>Packing Group:</b>			

## Section 15 - Regulatory Information

<b>European/International Regulations</b>
European Labeling in Accordance with EC Directives
Hazard Symbols: XI
<b>Risk Phrases:</b>
> R 36 Irritating to eyes.
<b>Safety Phrases:</b>
> S 24 Avoid contact with skin.
> S 26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice.
WGK (Water Danger/Protection)
Ø CAS# 112-34-5: 1
Canada
> CAS# 112-34-5 is listed on Canada's DSL List
<b>USFederal</b>
> TSCA
> CAS# 112-34-5 is listed on the TSCA Inventory.

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## Section 16 - Other Information

**MSDS Creation Date:**

08/16/2007

**Revision #0 Date**

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