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## 1. PRODUCT IDENTIFICATION

**Name:** *Glycol Ether EB Acetate*

**Synonyms:** *ethylene glycol monobutyl ether acetate; 2-butoxyethyl acetate; acetic acid, 2-butoxyethyl*


**CAS#** 112-07-2

**Product Uses:** *solvent in cleaners and coatings.*

**Supplier** *Megaloid Laboratories Limited*  
**Identifier:** *5515 North Service Road, Suite 306  
Burlington, Ontario, Canada  
L7L 6G4  
Phone: 905-337-7411 / Fax: 905-337-1686*

**EMERGENCY INFORMATION** **Call CHEMTREC - (800) 424-9300 (CCN # 693764)**

## 2. HAZARDS

<b>GHS Class</b> <i>(category)</i>	<b>Flammable</b> <i>(4)</i>	<b>Acute toxicity oral</b> <i>(4)</i>	<b>Acute toxicity skin</b> <i>(4)</i>	<b>Acute inhalation</b> <i>(4)</i>	 <b>Label Pictograms</b>
<b>Signal Word</b>	<b>WARNING</b>				
<b>Hazard Statements</b>	<i>Combustible liquid (H227)</i>	<i>Harmful if swallowed (H302)</i>	<i>Harmful in contact with skin (H312)</i>	<i>Harmful if inhaled (H332)</i>	

### GHS Precautionary Statements for Labelling

#### **Prevention**

**P210** Keep away from heat, sparks, open flames and hot surfaces. No smoking.

**P260** Do not breathe mist, vapours or spray.

**P262** Do not get in eyes, on skin or on clothing.

**P264** Wash hands thoroughly after handling.

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

**P280** Wear eye protection, protective gloves and clothing of butyl rubber

#### **Response**

**P301, P310** If swallowed, immediately call a doctor.

<b>P304, P340</b>	IF INHALED: remove person to fresh air and keep comfortable for breathing.
<b>P305, P351, P338</b>	IF IN EYES: rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
<b>P313, 333</b>	If skin irritation or rash occurs, get medical advice/attention.
<b>P330</b>	Rinse mouth.
<b>P370, P378</b>	In case of fire use alcohol-resistant foam to extinguish.
<b>Storage</b>	
<b>P403 + P233</b>	Store in a well-ventilated place. Keep container tightly closed.
<b>P403 + P235</b>	Store in a well-ventilated place. Keep cool.
<b>P405</b>	Store locked up.
<b>Disposal</b>	
<b>P501</b>	Dispose of contents and container in accordance with local, regional, national and international regulations.

### 3. COMPOSITION

Chemical Name:	CAS No.	%	Other Identifiers
2-Butoxyethyl Acetate	112-07-2	100	EC # 203-933-3

### 4. FIRST AID

#### Inhalation

*Remove from contaminated area promptly. CAUTION: Rescuer must not endanger himself! If breathing stops, administer artificial respiration and seek medical aid promptly.*

#### Skin Contact

*Wash with plenty of water. Remove contaminated clothing and do not reuse until thoroughly laundered.*

#### Eye Contact

*Wash eyes with plenty of water, holding eyelids open. Seek medical assistance if there is any irritation.*

#### Ingestion

*Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.*

#### **First-aid Comments**

*Inadvertent inhalation of vomited material may seriously damage the lungs. The danger of this is greater than the risk of poisoning through absorption of this relatively low-toxicity substance. The stomach should only be emptied under medical supervision, and after the installation of an airway to protect the lungs.*

### 5. FIRE FIGHTING & FLAMMABILITY

#### Extinguishing Media

##### **Suitable Extinguishing Media**

*Foam, dry chemical, water fog, water spray only to cool & dilute, product floats on water - water jet spreads flames*

#### Combustion Products

*Carbon monoxide, nitrogen oxides, smoke, part oxidized hydrocarbon fragments*

### Static Charge Accumulation

*Cannot accumulate a static charge on agitation or pumping.*

### Special Protective Equipment and Precautions for Fire-fighters

*Firefighters must wear SCBA. Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.*

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

*Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Eliminate all ignition sources. Use grounded, explosion-proof equipment. Increase ventilation to area or move leaking container to a well-ventilated and secure area.*

### Environmental Precautions

*If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.*

### Methods and Materials for Containment and Cleaning Up

*Leak Precaution: dyke to control spillage and prevent environmental contamination*

*Handling Spill: Ventilate contaminated area; recover free liquid with suitable pumps; absorb residue on an inert sorbent, sweep & pick up using plastic or aluminium shovel, & store in closed containers for recycling or disposal.*

### Other Information

*Report spills to local health, safety and environmental authorities, as required.*

## 7. HANDLING & STORAGE

### Precautions for Safe Handling

*Glycol Ether EB Acetate may react with oxygen in air to form explosive peroxides. Ensure that containers are full & tightly sealed. If prolonged storage of a part container is anticipated, flush headspace with dry nitrogen gas prior to sealing. Never distil this product to dryness (peroxides may concentrate & explode). Empty containers may contain a flammable / explosive vapour. Always ensure that containers, whether empty or full, are tightly sealed unless in use. Avoid breathing product vapour or mist.*

*Never cut, drill, weld or grind on or near this container. Avoid contact with skin & wash work clothes frequently. An eye bath must be available near the workplace.*

### Conditions for Safe Storage

*Store & use in a cool, dry environment, away from sources of ignition & oxidizing agents.*

## 8. EXPOSURE CONTROL & PERSONAL PROTECTION

**Ontario TWAEV** *not listed*  
**ACGIH TLV** *20ppm / 130mg/m<sup>3</sup>*  
**OSHA PEL** *not listed*

**Ontario STEV** *not listed*  
**ACGIH STEL** *not listed*  
**OSHA STEL** *not listed*

<b>Ventilation</b>	<i>probably not required; if product is heated, mechanical ventilation may be required</i>
<b>Hands</b>	<i>butyl rubber gloves recommended – other types may also protect; consult supplier to confirm suitability</i>
<b>Eyes</b>	<i>Safety glasses with side shields – always protect the eyes</i>

**Clothing** *No special protective clothing required*

### Appropriate Engineering Controls

*Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.*

## 9. PHYSICAL PROPERTIES

<b>Appearance</b>	<i>Clear colourless liquid.</i>
<b>Odour</b>	<i>sweet, fruity odour</i>
<b>Odour threshold</b>	<i>0.1 – 0.5ppm</i>
<b>pH</b>	<i>7</i>
<b>Melting Point/Freezing Point</b>	<i>-63°C / -81°F, also -70°C / -94°F</i>
<b>Initial Boiling Point/Range</b>	<i>192-194°C / 378-381°F</i>
<b>Flash Point</b>	<i>71°C / 160°F (closed cup); also given as 78°C / 172°F &amp; as 84°C / 183°F</i>
<b>Evaporation Rate</b>	<i>Not known – like high-flash mineral spirits (Butyl Acetate =1)</i>
<b>Flammability ( Solid, Gas)</b>	<i>Not Available</i>
<b>Upper/Lower Flammability or Explosive Limit</b>	<i>0.9% – 8.5%</i>
<b>Vapour Pressure</b>	<i>0.3mmHg / 0.04kPa (20°C / 68°F)</i>
<b>Vapour Density (air = 1)</b>	<i>5.5</i>
<b>Specific Gravity</b>	<i>0.942 (20/20°C)</i>
<b>Water Solubility</b>	<i>17grams/litre (20°C / 68°F), 15grams/litre (20°C / 68°F). Also soluble in most organic solvents, limited solubility in glycols and methanol</i>
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	<i>1.57 &amp; 1.51</i>
<b>Auto-ignition Temperature</b>	<i>340°C / 645°F</i>
<b>Conversion Factor</b>	<i>1ppm = 6.5mg/m<sup>3</sup></i>
<b>Viscosity</b>	<i>1.92 centipoise (20°C / 68°F)</i>
<b>Physical State</b>	<i>Liquid</i>
<b>Molecular Weight</b>	<i>160 grams per mole</i>
<b>Molecular Formula</b>	<i>C<sub>8</sub>H<sub>16</sub>O<sub>3</sub></i>

## 10. REACTIVITY

**Dangerously Reactive** *with strong oxidising agents; strong alkalis.*

**Also Reactive with-** *none known*

### **Chemical Stability**

*Stable; will not polymerize*

### **Possibility of Hazardous Reactions**

*Polymerization will not occur.*

### **Conditions to Avoid**

*Do not distil to dryness. Product can oxidize at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems.*

### **Mechanical Impact**

*not sensitive*

## 11. TOXICITY

<b>Acute Toxicity</b>	
<b>LD<sub>50</sub> (oral)</b>	1880, 1600 – 7000mg/kg (rat, several tests), 2830 & 3200mg/kg (mouse)
<b>LD<sub>50</sub> (skin)</b>	1490, 1500 & 1580mg/kg (rabbit)
<b>LC<sub>50</sub> (inhalation)</b>	2660, 3680mg/m <sup>3</sup> (rat) – no mortality, 3910mg/m <sup>3</sup> (rat) – 2 of 18 animals died

### **Skin Corrosion/Irritation**

*Not irritating.*

### **Serious Eye Damage/Irritation**

*May be mildly irritating.*

### **STOT (Specific Target Organ Toxicity) - Single Exposure**

#### **Inhalation**

*May irritate but low vapour pressure makes this unlikely; mist or vapour from hot product.*

#### **Skin Absorption**

*Slight; no toxic effects likely by this route.*

#### **Ingestion**

*Headache, dizziness, nausea, vomiting – not a route of industrial exposure.*

### **STOT (Specific Target Organ Toxicity) - Repeated Exposure**

*Prolonged exposure may cause dermatitis; may damage liver & kidneys; may damage red cells  
Causing reddish-brown urine.*

#### **Respiratory and/or Skin Sensitization**

*Not known to be a respiratory sensitizer.*

#### **Carcinogenicity**

*Not known to be a carcinogen or tumorigen in humans; not carcinogenic by the U.S. NTP or by OSHA; animal (rodent) carcinogen A3 (ACGIH, oral) – not a route of industrial exposure.*

## Reproductive Toxicity

### Sexual Function and Fertility

No known effect in humans;

**NOAEL** (reproduction) >450mg/kg/day/90days (rat, oral) & >720mg/kg/day/14weeks (oral, mouse).

### Germ Cell Mutagenicity

*Not known to be a mutagen.*

**NOAEC** (teratogen) >100ppm/12days (rabbit – gestation day 6-18; maternal NOAEC = >50ppm from the same tests).

## 12. ECOLOGICAL INFORMATION

<b>Bioaccumulation</b>	<i>Not a bioaccumulator.</i>
<b>Persistence and Degradability</b>	<b>Biodegradation -</b> <i>biodegrades very rapidly; &gt;90% in 6.5days, 96% in 14 days<sup>1</sup>, 88%<sup>1</sup> &amp; 90% in 28 days</i>  <b>Abiotic Degradation -</b> <i>no direct photolysis; reacts with atmospheric hydroxyl radicals; estimated ½-life in air is 18 hours</i>
<b>Mobility in soil, water</b>	<i>water soluble; moves readily in soil and water.</i>
<b>Aquatic Toxicity</b>	
<b>LC50 (Fish, 48hr)</b>	<i>80mg/litre (Lsuciscus idus), &gt;20 &amp; 28mg/litre (Oncorhynchus mykiss) 22 &amp; 31mg/litre (Pimephelas promelas)</i>
<b>EC50 (Crustacea, 48hr)</b>	<i>37, 67, 143 &amp; 180mg/litre (Daphnia magna)</i>
<b>EC50 (Algae)</b>	<i>&gt;500mg/litre (Scenedesmus subspicatus), 520 &amp; 1520mg/litre (Pseudokirchnerella quadricauda) 1570mg/litre (Pseudokirchnerella subcapitata)</i>
<b>EC50 (Bacteria)</b>	<i>960mg/litre (Pseudomonas putida), 900, 1000 &amp; 2800mg/litre (domestic sewage sludge)</i>

## 13. DISPOSAL

### Water Disposal

**Do not flush to sewer**, recycle solvent if possible; rapid biodegradation suggests that biological destruction is very effective; may be incinerated in approved facility with flue gas monitoring & scrubbing

### Containers

**Drums** should be reused. Recondition and pressure test by a licensed reconditioner prior to re-use.


**Pails** must be vented and thoroughly dried prior to crushing and recycling.

**IBCs** (intermediate bulk containers): polyethylene bottle must be pressure tested & recertified at 30 months. Replace at 60 months (5yrs).

**Steel containers** must be inspected, pressure tested & recertified every 5 years.

***Never cut, drill, weld or grind on or near this container, even if empty***

## 14. TRANSPORT CLASSIFICATION

<b>Canada TDG</b>	<b>PIN</b>	Not regulated for transport	
<b>U.S.A. 49 CFR</b>	<b>PIN</b> <b>Shipping Name</b>	NA1993 Combustible Liquid, n.o.s. (2- Butoxyethyl acetate)	
	<b>Class &amp; Packing Group</b>	Combustible, PG III	

**Note:** not regulated for smaller quantities (<450 liters (119 US gals))

<b>Marine Pollutant</b>	Not a Marine Pollutant	
<b>ERAP Required</b>	NO	
<b>Reportable Quantity</b>	NO	
<b>E R G No.</b>	128	

## 15. REGULATIONS

<b>Canada DSL</b>	On Inventory
<b>U.S.A. TSCA</b>	On Inventory
<b>Europe EINECS</b>	On Inventory

### U.S.A. Regulations

#### OSHA Hazard Communication Standard:

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

#### Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312:

Fire Hazard

Chronic Health Hazard

#### Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### U.S. State Regulations

#### Pennsylvania Worker and Community Right-To-Know Act:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

#### California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

WARNING: This product contains a chemical(s) known to the State of California to cause birth defects or other reproductive harm.

#### Components

Components	CASRN
Ethylene glycol monoethyl ether	110-80-5
Ethylene glycol monoethyl ether acetate	111-15-9

### Global Inventory Status

Country/Region	Inventory	Status Description
Australia	AICS	Compliant
China	IECSC	Compliant

Japan	ENCS	Compliant
Korea	KECI	Compliant
New Zealand	NZIoC	Compliant
Philippines	PICCS	Compliant
Taiwan	TCSCA	Compliant

## 16. OTHER INFORMATION

<b>NFPA RATING</b>	<b>Health 2</b>	<b>Flammability 2</b>	<b>Instability 0</b>
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Prepared for Megaloid Laboratories Limited by Richard Koscher  
 Preparation Date: March 2002  
 Revision Dates: May 2005, June 2008, June 2011, June 2014, June 2017, Jan 2019

<b>Key to Abbreviations</b>	<p>ACGIH® = American Conference of Governmental Industrial Hygienists          AIHA® = AIHA® Guideline Foundation          HSDB® = Hazardous Substances Data Bank          IARC = International Agency for Research on Cancer          NFPA = National Fire Protection Association          NIOSH = National Institute for Occupational Safety and Health          NTP = National Toxicology Program          OSHA = US Occupational Safety and Health Administration          RTECS® = Registry of Toxic Effects of Chemical Substances</p>
<b>References</b>	<p>CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS).</p>
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