

SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

PRODUCT IDENTIFIER: Glycol Ether EB
SYNONYMS: Ethylene Glycol Monobutyl Ether, Glycol Butyl Ether
PRODUCT USES: No data available.
SUPPLIER NAME: **Seeler Industries, Inc.**
ADDRESS: 1 Genstar Drive
 Joliet, IL 60435
 (815)740-2640

EMERGENCY TELEPHONE: 424-9300 (CHEMTREC - US)
DATE PREPARED: 6/30/2015

2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: Warning!

Product Description: This product is a clear colorless liquid with an ether like odor.

Health Hazards: Harmful if swallowed or inhaled. Causes irritation to skin, eyes and respiratory tract. Inhalation of vapors can effects central nervous system, liver and gastrointestinal tract.

Flammability Hazards: Combustible liquid with flash point of 161°F (72°C) **Reactivity Hazards:** This product is not reactive.

Environmental Hazards: Release of the product is not expected to cause significant adverse effects to the aquatic environment.

Emergency Recommendations: Emergency responders must have personal protective equipment and fire protection appropriate for the situation to which they are responding.

EU LABELING AND CLASSIFICATION: This product meets the definition of a hazardous substance or preparation according to EU Regulations (EC) No 1272/2008.

INDEX NUMBER:



EC# 203-905-0 Annex Index# 603-014-00-0

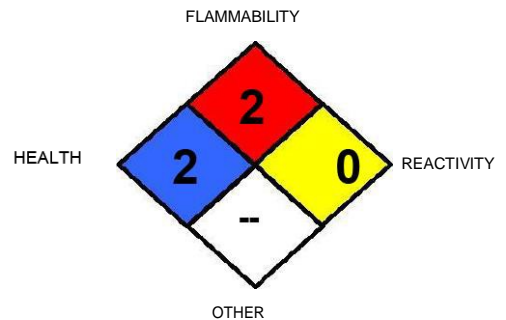
GHS CLASSIFICATIONS:

- Flammable Liquid Category 4
- Acute Inhalation Toxicity Category 4
- Acute Dermal Toxicity Category 4
- Acute Oral Toxicity Category 4
- Eye Irritant Category 2
- Skin Irritant Category 2

SIGNAL WORD : WARNING



HAZARDOUS MATERIAL IDENTIFICATION SYSTEM			
HEALTH HAZARD	(BLUE)	2	
FLAMMABILITY HAZARD	(RED)	2	
REACTIVITY	(YELLOW)	0	
PROTECTIVE EQUIPMENT			
EYES	RESPIRATORY	HANDS	BODY
	SEE SECTION 8		SEE SECTION 8
For Routine Industrial Use and Handling Applications			



Scale: 0 = Minimal 1 = Slight 2 = Moderate
 3 = Serious 4 = Severe * = Chronic hazard

HAZARD STATEMENT:

- H332: Harmful if inhaled
- H312: Harmful in contact with skin
- H302: Harmful if swallowed
- H319: Causes serious eye irritation
- H315: Causes skin irritation

PREVENTION STATEMENT :

P210 Keep away from heat/sparks/open flames/hot surfaces. - No Smoking
 P261 Avoid breathing dust/fume/gas/mist/vapor/spray
 P280 Wear protective gloves/protective clothing/eye protection/face protection

RESPONSE STATEMENT:

P363 Wash contaminated clothing before reuse.
 P303+361+353 IF ON SKIN Remove/Take off immediately all contaminated clothing, Rinse SKIN with water/shower.
 P333 + P313 IF skin irritation or rash occurs Get medical advice/attention.

HEALTH EFFECTS OR RISKS FROM**EXPOSURE: ACUTE:**

INHALATION: May produce symptoms of central nervous system depression including headache, dizziness, nausea, euphoria, loss of equilibrium, drowsiness, visual disturbances, fatigue, unconsciousness and respiratory arrest. Severe over-exposure may cause red blood cell damage.

SKIN: Slight skin irritation may occur from prolonged skin contact. Low levels may be absorbed through the skin.

EYES: Moderate to severe eye irritant.

INGESTION: This material is low to moderately toxic. May cause headache, dizziness and gastrointestinal distress. Causes rapid damage to red blood cells and subsequent anemia. Repeated exposure may cause liver and kidney damage.

CHRONIC: Prolonged or repeated exposures can cause damage to the liver, kidneys, lymphoid system, blood and

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Ingredients:	WT%	CAB#	EINECS #	Hazard Classification	Risk Phrases
2-Butoxyethanol	>99%	111-76-2	203-905-0	[F] Flammable, [Xn]Harmful, [Xi] Irritant	R10, R20/21/22, R36/38
Balance of other ingredients is less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).					

NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2004 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard J/S Z 7250.- 2000.

4. FIRST-AID MEASURES

SKIN EXPOSURE: If this product contaminates the skin, begin decontamination with running water. Minimum flushing is for 5 minutes. Remove exposed or contaminated clothing, taking care not to contaminate eyes. The contaminated individual should seek medical attention if any adverse effect occurs.

EYE EXPOSURE: If this product enters the eyes, open contaminated individual's eyes while under gently running water. Use sufficient force to open eyelids. Remove contact lenses if worn. Have contaminated individual "roll" eyes. Minimum flushing is for 15 minutes. Contaminated individual must seek medical attention if irritation develops or persists or if visual changes occur.

INHALATION: If vapors/mists generated by this product are inhaled, remove contaminated individual to fresh air. If necessary, use artificial respiration to support vital functions. **SEEK IMMEDIATE MEDICAL ATTENTION.**

INGESTION: If this product is swallowed, **CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION.** DO NOT induce vomiting; if vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions or unable to swallow **SEEK IMMEDIATE MEDICAL ATTENTION.**

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with pre-existing skin and respiratory conditions may be more susceptible to effects of this material.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and eliminate overexposure.

5. FIRE-FIGHTING MEASURES

FLASH POINT: 72°C (161.6°F) OC

AUTOIONITION TEMPERATURE: 244°C (471.2°F)

FLAMMABLE LIMITS (in air by volume, %): Lower 1.1% Upper 10.6%

FIRE EXTINGUISHING MATERIALS: Use fire extinguishing methods listed below:

Water Spray: Yes Carbon Dioxide: Yes

Foam: Yes Dry Chemical: Yes

Halon: Yes Other: Any "C" Class

Do not use water stream

UNUSUAL FIRE AND EXPLOSION HAZARDS: Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Vapors can flow along surfaces to distant ignition source and flash back. Contact with strong oxidizers may cause fire.

Explosion Sensitivity to Mechanical Impact: No

Explosion Sensitivity to Static Discharge: Yes

OSHHNFPA CLASSIFICATION: Class III A Combustible Liquid

SPECIAL FIRE-FIGHTING PROCEDURES: Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Evacuate unprotected personnel from the area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in section 8. Contain and recover liquid if possible. Use non-sparking tools and equipment. Cover or absorb spilled liquid with sand, earth or other inert material. Clean up spill immediately and place in appropriate containers. Do not discharge to sewers and surface waters. Notify authorities if entry occurs. Remove all sources of ignition.

U.S. Regulations (CERCLA) requires reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

7. HANDLING and STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Keep locked up. Keep away from heat. Keep away from sources of ignition. Do not ingest. Do not breathe gas/fumes/vapor/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.

STORAGE AND HANDLING PRACTICES: Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Keep away from direct sunlight and heat and avoid all possible sources of ignition (spark or flame).

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Chemical Name	CAS#	ACGIH TLV	OSHA TWA
2-Butoxyethanol	111-76-2	20 ppm	50 ppm

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided below. Use a chemical fume hood or local exhaust ventilation, and process enclosure if necessary, to control airborne dust. Ensure eyewash/safety shower stations are available near areas where this product is used.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

RESPIRATORY PROTECTION: Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

EYE PROTECTION: Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area Contact lenses pose a special hazard; Do not wear contact lenses.

If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

HAND PROTECTION: Use chemically-resistant gloves when handling this product. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

BODY PROTECTION: Use body protection appropriate for task (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employees feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

9. PHYSICAL and CHEMICAL PROPERTIES

Flash Point: combustible\nno available data
Autoignition Temperature: no available data
Boiling Point: no available data
Melting/Freezing Point: no available data
Vapor Pressure: 0.6 @ 20°C
Vapor Density: 4.1
Appearance: Clear colorless liquid
Odor: Ether-like/pungent

Flammability Limits: no available data
Flammability: combustible
Specific Gravity: 0.901 - 0.904 @ 20°C
Volatile %: 100
Evaporation Rate (Water=1): 0.1
pH: no available data
Solubility in Water: Complete
Partition coefficient: no available data
Decomposition temperature: no available data

10. STABILITY and REACTIVITY

STABILITY: Stable under conditions of normal storage and use.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide and carbon monoxide may form when heated to decomposition.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: strong oxidizers, acids, bases, ammonia and chlorides.

POSSIBILITY OF HAZARDOUS REACTIONS: Will not occur.

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA:

Oral rat LD50: 1746 mg/kg
 Skin rat LD50: >2000 mg/kg.

Cancer Lists

Ingredient	---NTP Carcinogen---		
-----	Known	Anticipated	IARC Category
-----	-----	-----	-----
2-Butoxyethanol (111-76-2)	No	No	Group 3

12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

ENVIRONMENTAL STABILITY: Highly mobile in soil and likely to volatilize from moist or dry soil surfaces. Expected to volatilize from surface waters and not likely to adsorb to suspended solids and sediment in water.

CHEMICAL EFFECT ON PLANTS, ANIMALS AND AQUATIC LIFE: This material is not expected to be toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

14. TRANSPORTATION INFORMATION

US DOT IATA IMO ADR

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS: This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

PROPER SHIPPING NAME: COMBUSTIBLE, LIQUID, N.O.S. (ETHYLENE GLYCOL MONOBUTYL ETHER)

HAZARD CLASS NUMBER and DESCRIPTION: Combustible liquid Class 3

UN IDENTIFICATION NUMBER: NA 1993

PACKING GROUP: PG III

DOT LABEL(S) REQUIRED: Combustible Liquid

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER: 128

RQ QUANTITY: None

MARINE POLLUTANT: The components of this product are not designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA): This product is considered as dangerous goods.

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO): This product is considered as dangerous goods.

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR): This product is considered by the United Nations Economic Commission for Europe to be dangerous goods.

15. REGULATORY INFORMATION

UNITED STATES REGULATIONS:

U.S. SARA REPORTING REQUIREMENTS: The components of this product are subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for the components of this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical List: 2-BUTOXYETHANOL (ETHYLENE GLYCOL

MONOBUTYL ETHER) (GLYCOL ETHER CATEGORY)

U.S. CERCLA REPORTABLE QUANTITY (RQ): None

U.S. TSCA INVENTORY STATUS: The components of this product are listed on the TSCA Inventory or are exempted from listing.

OTHER U.S. FEDERAL REGULATIONS: None

STATE REGULATIONS:

Pennsylvania RTK: Glycol Ether EB: (environmental hazard, generic environmental hazard) Massachusetts RTK: Glycol Ether EB

New Jersey: Glycol Ether EB

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): Ingredient(s) within

this product are not on the Proposition 65 Lists.

RCRA 40 CFR: None

CANADIAN REGULATIONS:

CANADIAN DSUNDSL INVENTORY STATUS: The components of this product are on the DSL Inventory, or are exempted from listing

OTHER CANADIAN REGULATIONS: Not applicable.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: CLASS B - DIVISION 3, Combustible Liquid, CLASS D-2B: Material causing other toxic effects.



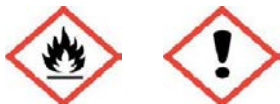
EU@OPEAN ECOMIC COMMUNITY INFORMATION:

EU LABELING AND CLASSIFICATION: This product meets the definition of the following hazard class as defined by the European Economic Community Guidelines.

EU CLASSIFICATION: [F] Flammable, [Xn] Harmful, [Xi] Irritant

EU RISK PHRASES: RIO: Flammable; R20/21/22: Harmful by inhalation, in contact with skin and if swallowed; R36/38: Irritating to eyes and skin.

EU SAFETY PHRASES: S36/37: Wear suitable protect clothing and gloves; S45: In case of an accident or if you feel unwell, seek medical advice immediately; S53: Avoid exposure.



AUSTRALIAN INFORMATION FOR PRODUCT: The components of this product are listed on the International Chemical Inventory list.

JAPANESE INFORMATION FOR PRODUCT:

JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS: The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

JAPANESE ENCS INVENTORY: The components of this product are on the ENCS Inventory as indicated in the section on International Chemical Inventories, below.

POISONOUS AND DELETERIOUS SUBSTANCES CONTROL LAW: No component of this product is a listed Specified Poisonous Substance under the Poisonous and Deleterious Substances Control Law.

INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the components on individual country Chemical Inventories is as follows:

AsiaPac: Listed

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed

Philippines Inventory if Chemicals and Chemical Substances (PICCS): Listed

Swiss Giftliste List of Toxic Substances: Listed

16. OTHER INFORMATION

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