

# SAFETY DATA SHEET

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

**Product identifier**

**Product name:** Glycol Ether EEP

**Synonyms, Trade Names:** Glycol Ether EEP

**Additional identification**

**Chemical name:** ethyl-3-ethoxypropionate  
**CAS-No.:** 763-69-9

**Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses:** Solvent

**Uses advised against:** None known.

**Details of the supplier of the safety data sheet**

**Manufacturer / Supplier**

Silver Fern Chemical Inc.  
2226 Queen Anne Ave., North  
Seattle, WA 98109  
Phone: 1-866-282-3384

Business Contact: 1-866-282-3384

**Emergency telephone number:**

For 24 Hour emergency contact: Infotrac 1-800-535-5053 (USA & Canada)

For 24 Hour emergency contact all other countries: Infotrac 1-352-323-3500

## SECTION 2: Hazards identification

**Hazard Classification:**

**Physical Hazards**

Flammable liquids Category 3

**OSHA Specified Hazards:** not applicable

**Warning label items including precautionary statement:**

**Pictogram:**



**Signal Words:** WARNING!

**Hazard Statement(s):** H226: Flammable liquid and vapor.

**Precautionary Statement:**

**Prevention:** P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
 P233: Keep container tightly closed.  
 P240: Ground/bond container and receiving equipment.  
 P241: Use explosion-proof electrical/ventilating/lighting/equipment.  
 P242: Use only non-sparking tools.  
 P243: Take precautionary measures against static discharge.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** P370+P378: In case of fire; Use water spray, carbon dioxide, dry chemical or alcohol foam for extinction.  
 P303+P361+P353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

**Storage:** P403+P235: Store in a well-ventilated place. Keep cool.

**Disposal:** P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Hazard(s) not otherwise classified (HNOC):** Potential peroxide former.

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

**Substances / Mixtures**

**General information:**

Chemical name	Concentration	Additional identification	Notes
ethyl 3-ethoxypropionate	>99.9%	CAS-No.: 763-69-9	#
butylated hydroxytoluene	<0.1%	CAS-No.: 128-37-0	#

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# This substance has workplace exposure limit(s).

**SECTION 4: First aid measures**

**Description of first aid measures**

**Inhalation:** Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.

**Eye contact:** Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention if symptoms persist.

**Skin contact:** Wash with soap and water. Get medical attention if symptoms occur.

**Ingestion:** Seek medical advice.

**Most important symptoms and effects, both acute and delayed:** No known chronic or acute health risks.

**Indication of any immediate medical attention and special treatment needed**

**Hazards:** None known.

**Treatment:** Treat symptomatically.

## **SECTION 5: Firefighting measures**

**General Fire Hazards:** Flammable liquid and vapor. USE WATER WITH CAUTION. Material will float and may ignite on surface of water.

**Extinguishing media**

**Suitable extinguishing media:** Water spray. Carbon Dioxide. Dry chemical. Foam.

**Unsuitable extinguishing media:** None known.

**Special hazards arising from the substance or mixture:** Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. May form peroxides of unknown stability.

**Advice for firefighters**

**Special fire fighting procedures:** Water may be ineffective in fighting the fire. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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

**Personal precautions, protective equipment and emergency procedures:** Wear appropriate personal protective equipment.

**Environmental Precautions:** Avoid release to the environment.

**Methods and material for containment and cleaning up:** Eliminate sources of ignition. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Large Spillages: Flush spill area with water spray. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal.

**Notification Procedures:** In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

## SECTION 7: Handling and storage:

- Precautions for safe handling:** Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Minimize exposure to air. After opening, purge container with nitrogen before reclosing. Periodically test for peroxide formation on long-term storage. Do not allow to evaporate to near dryness. Do not distill to near dryness. Addition of water or appropriate reducing materials will lessen peroxide formation.
- Conditions for safe storage, including any incompatibilities:** Keep container tightly closed and in a well-ventilated place. Store away from heat and light.
- Specific end use(s):** Solvent

## SECTION 8: Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

Country specific exposure limits have not been established or are not applicable unless listed below.

Chemical name	type	Exposure Limit Values	
ethyl 3-ethoxypropionate	TWA	50 ppm	
	STEL	100 ppm	

### Exposure controls

- Appropriate engineering controls:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Individual protection measures, such as personal protective equipment

- General information:** Eye bath. Washing facilities.
- Eye/face protection:** It is a good industrial hygiene practice to minimize eye contact.
- Skin protection**
- Hand Protection:** It is a good industrial hygiene practice to minimize skin contact. For operations where prolonged or repeated skin contact may occur, chemical-resistant gloves should be worn. Contact health and safety professional or manufacturer for specific information.
- Other:** No data available.

**Respiratory Protection:** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

**Hygiene measures:** Observe good industrial hygiene practices.

**Environmental Controls:** No data available.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

#### Appearance

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	ester
<b>Odor Threshold:</b>	0.02 ppm
<b>pH:</b>	No data available.
<b>Freezing Point:</b>	< -50 °C
<b>Boiling Point:</b>	165 - 172 °C
<b>Flash Point:</b>	59 °C (Setaflash Closed Cup)
<b>Evaporation Rate:</b>	0.12
<b>Flammability (solid, gas):</b>	not applicable
<b>Flammability Limit - Upper (%)-:</b>	9.8 %(V)
<b>Flammability Limit - Lower (%)-:</b>	1.05 %(V)
<b>Vapor pressure:</b>	0.23 kPa (20 °C)
<b>Vapor density (air=1):</b>	5.0
<b>Specific Gravity:</b>	0.95 (20 °C)
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	29 g/l
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	Pow: 22.4 log Pow: 1.35
<b>Autoignition Temperature:</b>	377 °C (ASTM E659)
<b>Decomposition Temperature:</b>	(HPDTA) No exotherm to 400°C
<b>Dynamic viscosity:</b>	1.20 mPa.s (25 °C)
<b>Kinematic viscosity:</b>	1.328 mm <sup>2</sup> /s (20 °C)
<b>Explosive properties:</b>	Not classified.
<b>Oxidizing properties:</b>	Not classified.

## SECTION 10: Stability and reactivity

<b>Reactivity:</b>	None known.
<b>Chemical Stability:</b>	Stable
<b>Possibility of Hazardous Reactions:</b>	Forms peroxides of unknown stability.
<b>Conditions to Avoid:</b>	Heat, sparks, flames.
<b>Incompatible Materials:</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Carbon Dioxide. Carbon Monoxide.

## SECTION 11: Toxicological information

### Information on likely routes of exposure

<b>Inhalation:</b>	None known.
<b>Ingestion:</b>	None known.
<b>Skin contact:</b>	Prolonged or repeated skin contact may cause drying, cracking, or irritation.
<b>Eye contact:</b>	None known.

### Information on toxicological effects

#### Oral

<b>Product:</b>	No data available.
<b>Specified substance(s):</b> ethyl 3-ethoxypropionate	Oral LD-50: (Rat, Female.): 4,309 mg/kg Oral LD-50: (Rat, Male.): > 5,000 mg/kg

#### Dermal

<b>Product:</b>	No data available.
<b>Specified substance(s):</b> ethyl 3-ethoxypropionate	Dermal LD-50: (Rabbit, Male.): 4,080 mg/kg Dermal LD-50: (Rabbit, Female.): 4,680 mg/kg

#### Inhalation

<b>Product:</b>	No data available.
<b>Specified substance(s):</b> ethyl 3-ethoxypropionate	LC50 (Rat, 6 h): > 998 ppm (highest concentration tested)

#### Repeated dose toxicity

<b>Product:</b>	No data available.
<b>Specified substance(s):</b> ethyl 3-ethoxypropionate	NOAEL (Rat, by gavage, 28 d): 1,000 mg/kg NOAEL (Rat, Inhalation study:, 90 d): 500 ppm

#### Skin Corrosion/Irritation

**Product:** No data available.

**Specified substance(s):**  
ethyl 3-ethoxypropionate (Rabbit, 4 h): Slight

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

**Product:** No data available.

**Specified substance(s):**  
ethyl 3-ethoxypropionate (Rabbit): Slight

### **Respiratory or Skin Sensitization**

**Product:** No data available.

**Specified substance(s):**  
ethyl 3-ethoxypropionate Skin Sensitization: (Guinea Pig): non-sensitizing

### **Carcinogenicity**

**Product:** No data available.

### **Toxicity to reproduction**

**Product:** No data available.

### **Developmental toxicity**

**Product:** No data available.

### **Germ Cell Mutagenicity**

#### **In vitro**

**Product:** No data available.

**Specified substance(s):**  
ethyl 3-ethoxypropionate Mutagenicity - Bacterial: negative  
Chromosomal aberration: negative  
Mutagenicity - Mammalian: negative

#### **In vivo**

**Product:** No data available.

### **Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

### **Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

### **Aspiration Hazard**

**Product:** No data available.

**Other effects:** No data available.

## SECTION 12: Ecological information

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

##### Fish

Product: No data available.

Specified substance(s):  
ethyl 3-ethoxypropionate LC-50 (Fish, 96 h): 60.9 mg/l

##### Aquatic Invertebrates

Product: No data available.

Specified substance(s):  
ethyl 3-ethoxypropionate EC-50 (daphnid, 48 h): 873 mg/l

#### Chronic hazards to the aquatic environment:

##### Fish

Product: No data available.

##### Aquatic Invertebrates

Product: No data available.

##### Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s):  
ethyl 3-ethoxypropionate EC-50 (Alga, 72 h): > 114.86 mg/l  
NOEC: (Alga, 72 h): >= 114.86 mg/l

### Persistence and Degradability

#### Biodegradation

Product: No data available.

Specified substance(s):  
ethyl 3-ethoxypropionate 100 % (28 d, Ready Biodegradability: CO2 Evolution Test) Readily biodegradable

#### BOD/COD Ratio

Product: No data available.

### Bioaccumulative Potential

#### Bioconcentration Factor (BCF)

Product: No data available.

#### Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: 1.35

Mobility in Soil: No data available.

#### Known or predicted distribution to environmental compartments

ethyl 3-ethoxypropionate Log Koc: 1.52 (QSAR model)



**Other Adverse Effects:** No data available.

### **SECTION 13: Disposal considerations**

#### **Waste treatment methods**

**General information:** No data available.

**Disposal methods:** Dispose of waste and residues in accordance with local authority requirements. Mix with compatible chemical which is less flammable and incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or near this container.

### **SECTION 14: Transport information**

*Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.*

#### **DOT**

Class combustible liquid, Packing group III for quantities of 450 liters (119 gallons) or more; not regulated for smaller quantities

Possible Shipping Description(s):

not regulated

UN 3272 Esters, n.o.s. III

#### **IMDG - International Maritime Dangerous Goods Code**

Possible Shipping Description(s):

UN 3272 ESTERS, N.O.S. (ethyl 3-ethoxypropionate) 3 III

#### **IATA**

Possible Shipping Description(s):

UN 3272 Esters, n.o.s. (ethyl 3-ethoxypropionate) 3 III

## SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture.:

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

**WHMIS (Canada) Status:** controlled

**WHMIS (Canada) Hazard Classification:** B/3

**SARA 311-312 Hazard Classification(s):**

fire hazard

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical List**

NONE

**OSHA:** hazardous

**TSCA (US Toxic Substances Control Act):** This product is listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

**DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act):** This product is listed on the DSL. Any impurities present in this product are exempt from listing.

**AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme):** This product is listed on AICS or otherwise complies with NICNAS.

**MITI (Japanese Handbook of Existing and New Chemical Substances):** This product is listed in the Handbook or has been approved in Japan by new substance notification.

**ECL (Korean Toxic Substances Control Act):** This product is listed on the Korean inventory or otherwise complies with the Korean Toxic Substances Control Act.KE-13479

**Philippines Inventory (PICCS) :** This product is listed on the Philippine Inventory or otherwise complies with PICCS.

**Inventory of Existing Chemical Substances in China:** All components of this product are listed on the Inventory of Existing Chemical Substances in China (IECSC).

## SECTION 16: Other information

**HMIS® Hazard Ratings:** Health - 1, Flammability - 2, Chemical Reactivity - 1

**Revision Information:** Not relevant.

**Key literature references and sources for data:** No data available.

**Training information:** No data available.

**Issue Date:** 05/21/2015

**SDS No.:**  
**Disclaimer:**

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