

# SAFETY DATA SHEET

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

**Product identifier**

**Product name:** Eastman(TM) EP Solvent

**Product No.:** EAN 907124. 09238-00, P0923800, P0923802, P0923803, P0923804, P0923807, P0923801, P0923809, P0923810

**Synonyms, Trade Names:** 09238-00

**Additional identification**

**Chemical name:** ethylene glycol monopropyl ether  
**CAS-No.:** 2807-30-9

**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**

Eastman Chemical Company  
200 South Wilcox Drive  
Kingsport, TN 37660-5280 US  
+14232292000

Visit our website at [www.EASTMAN.com](http://www.EASTMAN.com) or email [emnmsds@eastman.com](mailto:emnmsds@eastman.com)

**Emergency telephone number:**

For emergency health, safety, and environmental information, call 1-423-229-4511 or 1-423-229-2000.

For emergency transportation information, in the United States: call CHEMTREC at 800-424-9300 or call 423-229-2000.

## SECTION 2: Hazards identification

**Hazard classification:****Physical hazards**

Flammable liquids Category 3

**Health hazards**

Acute toxicity (Dermal) Category 4  
Serious eye damage/eye irritation Category 2A

**OSHA Specified Hazards:** not applicable

**Warning label items including precautionary statement:**

**Pictogram:**



**Signal words:** WARNING!

**Hazard Statement(s):** H226: Flammable liquid and vapor.  
H312: Harmful in contact with skin.  
H319: Causes serious eye irritation.

**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.  
P264: Wash hands thoroughly after handling.

**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.  
P312: Call a POISON CENTER or doctor/physician if you feel unwell.  
P363: Wash contaminated clothing before reuse.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313: If eye irritation persists: Get medical advice/attention.

**Storage:** P403+P235: Store in a well-ventilated place. Keep cool.  
P405: Store locked up.

**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):** None known.

### SECTION 3: Composition/information on ingredients

#### Substances / Mixtures

##### General information:

Chemical name	Concentration	Additional identification	Notes
ethylene glycol monopropyl ether	100%	CAS-No.: 2807-30-9	#

\* 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:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention immediately.

**Skin contact:** Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

**Ingestion:** Seek medical advice.

**Most important symptoms and effects, both acute and delayed:** May irritate and cause redness and pain.

**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.

**Extinguishing media**

**Suitable extinguishing media:** Water spray. Dry chemical. Carbon Dioxide. Alcohol 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. Forms 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: Use water spray to disperse vapors and dilute spill to a nonflammable mixture. 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 contact with eyes, skin, and clothing. 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	Source
2-(propyloxy)ethanol; EGPE	TWA	25 ppm	Eastman Chemical Company occupational exposure limit: (01 2001)

**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. Safety shower.

<b>Eye/face protection:</b>	Wear safety glasses with side shields (or goggles) and a face shield.
<b>Skin protection</b>	
<b>Hand protection:</b>	Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.
<b>Other:</b>	No data available.
<b>Respiratory Protection:</b>	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.
<b>Hygiene measures:</b>	Observe good industrial hygiene practices.
<b>Environmental Controls:</b>	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>	Mild
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Freezing Point:</b>	-90 °C
<b>Boiling Point:</b>	147 °C (1,009 hPa)
<b>Flash Point:</b>	51 °C (Closed Cup)
<b>Evaporation Rate:</b>	0.22
<b>Flammability (solid, gas):</b>	No data available.
<b>Flammability Limit - Upper (%)-:</b>	15.8 %(V)
<b>Flammability Limit - Lower (%)-:</b>	1.26 %(V)
<b>Vapor pressure:</b>	6.43 hPa (25 °C)
<b>Vapor density (air=1):</b>	3.6
<b>Specific Gravity:</b>	0.911 (20 °C)
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Completely Soluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	log Pow: 0.673
<b>Autoignition Temperature:</b>	256 °C (Measured)
<b>Decomposition Temperature:</b>	(DTA) No exotherm to boiling

<b>Dynamic Viscosity:</b>	2.71 mPa.s (20 °C)
<b>Kinematic viscosity:</b>	2.97 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>	Harmful in contact with skin.
<b>Eye contact:</b>	Causes serious eye irritation.

### Information on toxicological effects

#### Acute Toxicity

##### Oral

<b>Product:</b>	Oral LD-50: (Rat): 3,089 mg/kg
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##### Dermal

<b>Product:</b>	Dermal LD-50: (Rabbit): 1,337 mg/kg
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##### Inhalation

<b>Product:</b>	LC50 (Rat, 6 h): > 2132 ppm (highest concentration obtainable)
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##### Repeated dose toxicity

<b>Product:</b>	No data available.
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##### Specified substance(s)

2-(propyloxy)ethanol; EGPE	No data available.
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##### Skin corrosion/irritation:

<b>Product:</b>	(Rabbit, 24 h): slight
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**Serious eye damage/eye irritation:**

**Product:** (Rabbit, 24 h): moderate

**Respiratory or skin sensitization:**

**Product:** Skin Sensitization:, (Guinea Pig) - Not a skin sensitizer.

**Mutagenicity**

**In vitro**

**Product:** Salmonella typhimurium assay (Ames test), Bacterial Reverse Mutation Assay : negative +/- activation

**In vivo**

**Product:** No data available.

**Specified substance(s)**

2-(propyloxy)ethanol; EGPE No data available.

**Carcinogenicity**

**Product:** No data available.

**Specified substance(s)**

2-(propyloxy)ethanol; EGPE No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specified substance(s)**

2-(propyloxy)ethanol; EGPE No data available.

**Specific target organ toxicity - single exposure**

**Product:** Not classified

**Specific target organ toxicity - repeated exposure**

**Product:** Oral: Not classified  
Inhalation: Not classified

**Aspiration hazard**

**Product:** No data available.

**Specified substance(s)**

2-(propyloxy)ethanol; EGPE No data available.

**Other adverse effects:**

No data available.

**SECTION 12: Ecological information**

**Toxicity**

**Acute toxicity**

**Fish**

**Product:** LC-50 (Fathead Minnow, 96 h): > 5,000 mg/l

**Aquatic invertebrates**

**Product:** LC-50 (Water Flea, 48 h): > 5,000 mg/l

**Chronic Toxicity**

**Fish**

**Product:** No data available.

**Specified substance(s)**  
2-(propyloxy)ethanol; EGPE No data available.

**Aquatic invertebrates**

**Product:** No data available.

**Specified substance(s)**  
2-(propyloxy)ethanol; EGPE No data available.

**Toxicity to Aquatic Plants**

**Product:** EC-50 (Algae (*Pseudokirchneriella subcapitata*), 72 h): > 100 mg/l

**Persistence and degradability**

**Biodegradation**

**Product:** Readily biodegradable

**Biological Oxygen Demand:**

**Product** BOD-5: 200 mg/l  
BOD-20: 500 mg/l

**Chemical Oxygen Demand:**

**Product** 2.04 g/g

**BOD/COD ratio**

**Product** No data available.

**Specified substance(s)**  
2-(propyloxy)ethanol; EGPE No data available.

**Bioaccumulative potential**

**Product:** No data available.

**Specified substance(s)**  
2-(propyloxy)ethanol; EGPE No data available.

**Mobility in soil:** Koc: 1.55 log Koc: 0.19

**Results of PBT and vPvB assessment:** Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling vPvB (very persistent, very bioaccumulative) criteria.

**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

NA 1993 Combustible liquid, n.o.s. (ethylene glycol monopropyl ether) combustible liquid III

### IMDG - International Maritime Dangerous Goods Code

Possible Shipping Description(s):

UN 1993 FLAMMABLE LIQUID, N.O.S. (ethylene glycol monopropyl ether) 3 III

### IATA

Possible Shipping Description(s):

UN 1993 Flammable liquid, n.o.s. (ethylene glycol monopropyl ether) 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 MSDS contains all the information required by the Controlled Products Regulations.**

**WHMIS (Canada) Status:** controlled

**WHMIS (Canada) Hazard Classification:** B/3, D/2/B

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

immediate (acute) health hazard  
fire hazard

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

ETHYLENE GLYCOL MONOPROPYL ETHER (GLYCOL ETHER CATEGORY)

**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 or otherwise complies with CEPA new substance notification requirements.

**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-29764

**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 - 2, Flammability - 2, Chemical Reactivity - 1

*HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.*

**Revision Information:** Not relevant.

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

**Training information:** No data available.

**Issue date:** 10/28/2014

**SDS No.:**

**Disclaimer:** This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.