

Glycol Ether EP

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 11/24/2015 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form	Substance
Substance name	Glycol Ether EP
CAS No	2807-30-9
Formula	C5H12O2
Synonyms	2-(propyloxy)ethanol / 2-hydroxyethylpropyl ether / 2-propoxy-ethanol / EGPE / EKTASOLVE EP / ethanol, 2-propoxy- / ethylene glycol mono-n-propyl ether / ethylene glycol monopropyl ether / ethylene glycol propyl ether / ethyleneglycolmono-normal-propyl ether / Flammable liquid, toxic, n.o.s. / monopropyl ether of ethylene glycol / normal-propyl oxitol glycol / n-propyl oxitol glycol / propyl cellosolve
BIG no	10933

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture: Solvent

1.3. Details of the supplier of the safety data sheet

McKinnon Materials, Inc
5612 56th Commerce Park Blvd
Tampa, FL 33610
813-622-7031

1.4. Emergency telephone number

Emergency number CHEMTREC (800)-424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Liq. 3	H226 - Flammable liquid and vapor
Acute Tox. 4 (Dermal)	H312 - Harmful in contact with skin
Eye Irrit. 2A	H319 - Causes serious eye irritation

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



GHS02

GHS07

Signal word (GHS-US)

Warning

Hazard statements (GHS-US)

H226 - Flammable liquid and vapor
H312 - Harmful in contact with skin
H319 - Causes serious eye irritation

Precautionary statements (GHS-US)

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
P264 - Wash Skin thoroughly after handling
P280 - Wear protective gloves, protective clothing, eye protection, face protection
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312 - Call a POISON CENTER or doctor/physician if you feel unwell

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P337+P313 - If eye irritation persists: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse
P370+P378 - In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish
P403+P235 - Store in a well-ventilated place. Keep cool
P501 - Dispose of contents/container in accordance with local, regional, national, and/or international regulations.

2.3. Other hazards

None known

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substance

Name	Product identifier	%	GHS-US classification
Ethylene glycol monopropyl ether (Main constituent)	(CAS No) 2807-30-9	100	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Eye Irrit. 2A, H319

Full text of H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with labored breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

First-aid measures after 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.

First-aid measures after eye contact

Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

First-aid measures after ingestion

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Victim is fully conscious: immediately induce vomiting. Induce vomiting by giving a 0.9 % saline solution. Call Poison Center. Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation

EXPOSURE TO HIGH CONCENTRATIONS: Irritation of the respiratory tract.

Symptoms/injuries after skin contact

ON CONTINUOUS EXPOSURE/CONTACT: Tingling/irritation of the skin. Red skin. Symptoms similar to those listed under ingestion.

Symptoms/injuries after eye contact

Irritation of the eye tissue. Lacrimation. Inflammation/damage of the eye tissue.

Symptoms/injuries after ingestion

Feeling of weakness. Nausea. Vomiting. Diarrhoea. AFTER ABSORPTION OF HIGH QUANTITIES: Central nervous system depression. Dizziness. Headache. Drunkenness. Coordination disorders. Disturbed motor response. Disturbances of consciousness. Accelerated heart action. Rapid respiration. Low arterial pressure. Change in the haemogramme/blood composition. Enlargement/affection of the liver. Bleeding of the gastrointestinal tract. Affection of the renal tissue. Change in urine output. Cramps/uncontrolled muscular contractions.

Chronic symptoms

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Loss of appetite. Tremor. Visual disturbances. Mental confusion. Change in the haemogramme/blood composition.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray. Dry chemical. Carbon Dioxide. Alcohol Foam.

Unsuitable extinguishing media

None known.

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5.2. Special hazards arising from the substance or mixture

Fire hazard	Flammable liquid and vapor.
Explosion hazard	DIRECT EXPLOSION HAZARD. Gas/vapour explosive with air within explosion limits. INDIRECT EXPLOSION HAZARD. may be ignited by sparks. Reactions with explosion hazards: see "Reactivity Hazard".
Reactivity	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.

5.3. Advice for firefighters

Precautionary measures fire	Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: seal off low-lying areas. Exposure to fire/heat: have neighborhood close doors and windows.
Firefighting instructions	Water may be ineffective in fighting the fire. Use water spray to keep fire-exposed containers cool.
Protection during firefighting	Self-contained breathing apparatus and full protective clothing must be worn in case of fire..

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	Wear appropriate personal protective equipment.
Emergency procedures	Mark the danger area. Stop engines and no smoking. No naked flames or sparks. Spark- and explosion-proof appliances and lighting equipment. In case of reactivity hazard: consider evacuation. Wash contaminated clothes.

6.1.2. For emergency responders

Protective equipment	Do not attempt to take action without suitable protective equipment. For further information refer to section 8 Exposure controls/personal protection " ".
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6.2. Environmental precautions

Prevent spreading in sewers. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment	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.
Methods for cleaning up	Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. Carefully collect the spill/leftovers. Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite kieselguhr, powdered limestone. Scoop absorbed substance into closing containers. See "Material-handling" for suitable container materials. Take collected spill to manufacturer/competent authority. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.
Other information	Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8 : Exposure-controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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.
Hygiene measures	Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	Ground/bond container and receiving equipment.
Storage conditions	Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat and light.
Heat-ignition	KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.
Prohibitions on mixed storage	KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. (strong) bases.

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Storage area	Store at ambient temperature. Provide for a tub to collect spills. Provide the tank with earthing. Meet the legal requirements.
Special rules on packaging	SPECIAL REQUIREMENTS: closing. clean. correctly labelled. meet the legal requirements. Secure fragile packaging in solid containers.
Packaging materials	SUITABLE MATERIAL: stoneware/porcelain . glass. MATERIAL TO AVOID: aluminum.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls	Use adequate ventilation to keep airborne concentrations low. An emergency eye wash/ shower must be readily accessible to the work area.
Hand protection	Gloves.
Eye protection	Chemical splash goggles.
Skin and body protection	Wear appropriate protective gloves, boots and clothing to prevent skin exposure..
Respiratory protection	Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.
Environmental exposure controls	Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Liquid.
Color	Clear, colorless
Odor	Mild odour Ether-like odour
Odor threshold	No data available
pH	No data available
Freezing/ Melting point	-90 °C / -194 °F
Boiling point	147 °C / 296.6 °F
Flash point	51 °C / 123.8° F
Relative evaporation rate (butyl acetate=1)	0.2
Relative evaporation rate (ether=1)	68
Flammability (solid, gas)	No data available
Explosion limits	1.3 - 16 vol %
Explosive properties	No data available
Oxidizing properties	No data available
Vapor pressure	2 hPa (20 °C)
Relative density	0.91
Relative vapor density at 20 °C	3.60
Specific gravity / density	911 kg/m ³
Molecular mass	104.15 g/mol
Solubility	Soluble in water. Soluble in ethanol. Soluble in ether. Soluble in chloroform . Water: Complete
Log Pow	0.08
Auto-ignition temperature	230 °C
Decomposition temperature	No data available
Viscosity	No data available
Viscosity, kinematic	2.97 mPa.s (20 °C)
Viscosity, dynamic	2.71 mPa.s (20 °C)

9.2. Other information

VOE content	100 %
Other properties	Gas/vapour heavier than air at 20°C. Clear. Slightly volatile.

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SECTION 10: Stability and reactivity

10.1. Reactivity

None known

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Forms peroxide of unknown stability

10.4. Conditions to avoid

Heat, flames, and sparks. Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon oxides

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Dermal: Harmful in contact with skin.

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LD50 oral rat	3089 mg/kg (Rat)
LD50 dermal rabbit	873 mg/kg (Rabbit)
ATE US (oral)	3089.000 mg/kg body weight
ATE US (dermal)	873.000 mg/kg body weight

Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	Not classified
Specific target organ toxicity (repeated exposure)	Not classified
Aspiration hazard	Not classified
Symptoms/injuries after inhalation	EXPOSURE TO HIGH CONCENTRATIONS : Irritation of the respiratory tract.
Symptoms/injuries after skin contact	ON CONTINUOUS EXPOSURE/CONTACT : Tingling/irritation of the skin. Red skin. Symptoms similar to those listed under ingestion.
Symptoms/injuries after eye contact	Irritation of the eye tissue. Lacrimation. Inflammation/damage of the eye tissue.
Symptoms/injuries after ingestion	Feeling of weakness . Nausea. Vomiting. Diarrhea. AFTER ABSORPTION OF HIGH QUANTITIES: Central nervous system depression . Dizziness. Headache. Drunkenness. Coordination disorders . Disturbed motor response. Disturbances of consciousness. Accelerated heart action. Rapid respiration. Low arterial pressure. Change in the haemogramme/blood composition. Enlargement/affection of the liver. Bleeding of the gastrointestinal tract. Affection of the renal tissue. Change in urine output. Cramps/uncontrolled muscular contractions.
Chronic symptoms	ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Loss of appetite. Tremor. Visual disturbances. Mental confusion . Change in the haemogramme/blood composition.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

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12.2. Persistence and degradability

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Persistence and degradability Readily biodegradable in water. Biodegradable in the soil:

12.3. Bioaccumulative potential

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BCF other aquatic organisms 1	0.6 - 0.7 (BCF)
Log Pow	0.08
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Incinerate under surveillance with energy recovery. Do not discharge into surface water. Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.

SECTION 14: Transport information

Department of Transportation (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):

1. not regulated
2. NA 1993 Combustible liquid, n.o.s. (ethylene glycol monopropyl ether) III

SECTION 15: Regulatory information

15.1. US Federal regulations

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Listed on the United States TSCA (Toxic Substances Control Act) inventory
SARA 311/312- Hazard Classification(s) immediate (acute) health hazard; fire hazard
SARA 313- Toxic Chemical List - Ethylene Glycol Monopropyl Ether (Glycol Ether Category)

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

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State or local regulations U.S. - Pennsylvania - RTK (Right to Know) List

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SECTION 16: Other information

Date prepared: 11/24/2015

Full text of H-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 3	Flammable liquids Category 3
H226	Flammable liquid and vapor
H312	Harmful in contact with skin
H319	Causes serious eye irritation

NFPA health hazard 1
NFPA fire hazard 2
NFPA reactivity 1

SDS US (GHS HazCom 2012)

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