



Section 1. Product and Company Identification

Product Name Ethylene Glycol Monoethyl Ether

110-80-5 **CAS Number**

Parchem - fine & specialty chemicals

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EMERGENCY RESPONSE NUMBER

CHEMTEL

Toll Free US & Canada: 1 (800) 255-3924

All other Origins: 1 (813) 248-0585

Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 3), H226 Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 3), H331 Reproductive toxicity (Category 1B), H360

GHS Label Elements

Pictograms:



Signal word: DANGER

Hazard and precautionary statements **Hazard Statements**

H226 Flammable liquid and vapor.

H302 Harmful if swallowed.

H331 Toxic if inhaled.

H360 May damage fertility or the unborn child.

Precautionary Statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

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.



(Ethylene Glycol Monoethyl Ether)
DATE PREPARED: 10/21/2016

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash skin thoroughly after handling.

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

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

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

P405 Store locked up.

P501 Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS: None

Section 3. Composition / Information on Ingredients

Common Name Ethylene Glycol Monoethyl Ether

Synonym(s) 2-Ethoxyethanol

Formula $C_4H_{10}O_2$ CAS Number 110-80-5

COMPONENT	CAS NUMBER	CONCENTRATION
Ethylene Glycol Monoethyl Ether	110-80-5	<= 100%

Section 4. First Aid Measures

Description of first-aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

Move out of dangerous area.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin contact: Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

Eye contact: Flush eyes with water as a precaution.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Rinse mouth with water. Consult a physician.



(Ethylene Glycol Monoethyl Ether)
DATE PREPARED: 10/21/2016

Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Indication of any immediate medical attention and special treatment needed: No data available

Section 5. Firefighting Measures

Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Special hazards arising from the substance or mixture: No data available **Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary. **Further information:** Use water spray to cool unopened containers.

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Wear respiratory protection. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

Reference to other sections: For disposal see section 13.

Section 7. Handling and Storage

Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge. For precautions see section 2.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): Flammable liquids



Section 8. Exposure Controls / Personal Protection

Control parameters Components with workplace control parameters

Component	CAS-No.	Value	Control	Basis	
			parameters		
2-	110-80-5	TWA	0.500000 ppm	USA NIOSH Recommended	
Ethoxyethanol			1.800000mg/m^3	Exposure Limits	
	Remarks	Potential for dermal absorption			
		TWA	5.000000 ppm	USA. ACGIH Threshold Limit	
				Values (TLV)	
		Embryo/fetal damage Male reproductive damage Substances which there is a Biological Exposure Index or Indices (see BEIG			
		section) [rption		
		TWA	5 ppm	USA. ACGIH Threshold Limit	
				Values (TLV)	
		Embryo/fetal damage Male reproductive damage Su			
		which there is a Biological Exposure Index or Indices (see BEI®			
		section) Danger of cutaneous absorption			
	TWA	200.000000 ppm	USA. Occupational Exposure		
			740.000000 mg/m ³	Limits (OSHA) - Table Z-1	
				Limits for Air Contaminants	
	Skin designation The value in mg/m3 is approximate.			m3 is approximate.	
		TWA	200 ppm 740 mg/m ³	USA. Occupational Exposure	
				Limits (OSHA) - Table Z-1	
				Limits for Air Contaminants	
		Skin designation The value in mg/m3 is approximate.			
		PEL	5 ppm 18 mg/m³	California permissible	
			peciality	exposure limits for chemical	
				contaminants (Title 8, Article	
				107)	
		Skin			

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis
2-	110-80-5	2-Ethoxyacetic	100 mg/g	Urine	ACGIH - Biological
Ethoxyethanol		acid	Creatine		Exposure Indices (BEI)





	Remarks	End of shift at end of workweek
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Exposure controls

Appropriate engineering controls: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection: Complete suit protecting against chemicals, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance: Liquid **Odor:** No data available

Odor Threshold: No data available

pH: No data available

Melting point/freezing point: -90°C (-130°F) - lit.

Initial boiling point and boiling range: 135°C (275°F) - lit.

Flash point (Closed Cup): 42°C (108°F) Evaporation rate: No data available

Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits

Upper explosion limit: 14% (V) Lower explosion limit: 1.8% (V)

Vapor pressure: 5.1 hPa (3.8 mmHq) at 20°C (68°F)

Vapor density: 3.11 - (Air = 1.0)

Relative density: 0.93 g/mL at 25°C (77°F)





Water solubility: Completely Miscible

Partition coefficient (n-Octanol/water): No data available

Auto-ignition temperature: No data available Decomposition temperature: No data available

Viscosity: No data available

Explosive properties: No data available **Oxidizing properties:** No data available

Other safety information

Relative vapor density: 3.11 - (Air = 1.0)

Section 10. Stability and Reactivity

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No data available

Conditions to avoid: Heat, flames, and sparks. **Incompatible materials:** Oxidizing agents, Copper

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions: Carbon oxides

Other decomposition products: No data available

In the event of fire: see section 5

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity

LD50 Oral - Rat: 2,125 mg/kg

Remarks: Behavioral: Somnolence (general depressed activity). Respiratory disorder

LD50 Oral - Guinea pig: 1,400 mg/kg

Remarks: Behavioral: General anesthetic. Gastrointestinal: Other changes. Kidney, Ureter, Bladder:

Other changes.

LC50 Inhalation - Rat: 2000 ppm (7h) LC50 Inhalation - Rat: 7.36 mg/l (8h) LD50 Dermal - Rabbit: 3,300 mg/kg

Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation

Serious eye damage/eye irritation

Eyes - Rabbit

Result: Mild eye irritation - 24 h



(Ethylene Glycol Monoethyl Ether)
DATE PREPARED: 10/21/2016

Respiratory or skin sensitization

Maximization Test - Guinea pig

Result: Does not cause skin sensitization.

(OECD Test Guideline 406)

Germ cell mutagenicity: No data available

Carcinogenicity

IARC: No component of this product, present at levels greater than or equal to 0.1%, is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product, present at levels greater than or equal to 0.1%, is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: May cause congenital malformation in the fetus. Presumed human reproductive toxicant. May cause reproductive disorders.

Specific target organ toxicity – single exposure: No data available Specific target organ toxicity – repeated exposure: No data available

Aspiration hazard: No data available

Additional Information

RTECS: KK8050000

Acute symptoms of overexposure include: Narcosis, Liver injury may occur. Kidney injury may occur. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence

Section 12. Ecological Information

Toxicity

Toxicity to fish

LC50 - Lepomis macrochirus: > 10,000 mg/l (96 h)

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia (water flea): 1,892.52 mg/l (48 h)

Persistence and degradability

Biodegradability Result: 63 – 83% - Readily biodegradable

(OECD Test Guideline 301C) **Remarks:** No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety

assessment not required/not conducted





Other adverse effects: No data available

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

DOT (US)

UN number: 1171

Class: 3

Packing group: III

Proper shipping name: Ethylene Glycol Monoethyl Ether

Reportable Quantity (RQ): 1000 lbs Poison Inhalation Hazard: No

IMDG

UN number: 1171

Class: 3

Packing group: Ⅲ EMS-No: F.E, S.D

Proper shipping name: Ethylene Glycol Monoethyl Ether

IATA

UN number: 1171

Class: 3

Packing group: III

Proper shipping name: Ethylene Glycol Monoethyl Ether

Section 15. Regulatory Information

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313: 2-Ethoxyethanol (CAS-No. 110-80-5)

Revision Date: 1993-04-24

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard



(Ethylene Glycol Monoethyl Ether)
DATE PREPARED: 10/21/2016

Massachusetts Right to Know Components

2-Ethoxyethanol (CAS-No. 110-80-5)

Revision Date: 1993-04-24

Pennsylvania Right to Know Components

2-Ethoxyethanol (CAS-No. 110-80-5)

Revision Date: 1993-04-24

New Jersey Right to Know Components

2-Ethoxyethanol (CAS-No. 110-80-5)

Revision Date: 1993-04-24

California Prop. 65 Components

WARNING: This product contains a chemical known to the State of California to cause birth defects

or other reproductive harm:

2-Ethoxyethanol (CAS-No. 110-80-5)

Revision Date: 1993-04-24

HMIS Rating

Health: 1*

Flammability: 2 Reactivity: 0

NFPA Rating

Health: 1

Flammability: 2 Reactivity: 0

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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