

Safety Data Sheet

Ethylene Glycol

SECTION I - IDENTIFICATION



Transchem, Inc.
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Carlsbad, CA 92011
(800) 783-2436
Chemtel Emergency Response :. (800) 255-3924

PRODUCT NUMBER: EG
PRODUCT NAME: Ethylene Glycol
CHEMICAL FAMILY:
CAS NUMBER: 107-21-1
DATE PREPARED: 4/29/1998
REVISION NUMBER: 5/29/2014

SECTION II - HAZARDOUS IDENTIFICATION

GHS CLASSIFICATION:

Classification

Acute Toxicity, Oral	Category 4
Serious Eye Damage/Eye Irritation	Category 2B
Specific target organ toxicity, single exposure	Category 2
Specific target organ toxicity, repeated exposure	Category 2

WARNING!

GHS LABEL:



Hazard Statements

H302	Harmful if swallowed
H320	Causes eye irritation
H371	May cause damage to organs
H373	Causes damage to organs through prolonged or repeated exposure

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Precautionary Statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P301+312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so - continue rinsing.
P309+311	IF exposed or you feel unwell: Call a POISON CENTER or doctor/physician.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
P337+313	If eye irritation persists get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.

SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

The precise composition of this product is proprietary information. In the event of a medical emergency, a complete disclosure will be provided to medical personnel.

Component Name	CAS #	Component%	OSHA PEL	ACGIH TLV
Monoethylene Glycol	107-21-1	94-100%	Not Established	100 mg/m3

SECTION IV - FIRST AID MEASURES

Contact with eyes: Flush with water for 15 minutes. Seek immediate medical attention.

Skin contact: Wash exposed areas with water and mild soap. Remove contaminated clothing immediately and launder before reuse. If irritations persist, seek immediate medical attention.

Inhalation: Remove victim to fresh air. Administer oxygen or artificial respiration if breathing is affected or stopped. Seek immediate medical attention if symptoms persist.

Ingestion: If material has been swallowed and the exposed person is conscious, give small quantities of water to drink.
If swallowed. Seek immediate medical attention. Do not induce vomiting unless instructed to do so by medical personnel or a poison control center.
If vomiting occurs, keep head below hips to prevent aspiration into lungs.
If exposed person is unconscious put him/her in the recovery position.

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SECTION V - FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water fog, foam, CO2, dry chemical.

Special Fire Fighting Procedures Use self-contained breathing apparatus and full bunker gear in fire areas. Evacuate all unprotected personnel from area. Keep containers cool with water fog to minimize swelling taking care not to spread flames with water used for cooling.

Unusual Fire Fighting Hazards: Material will not burn unless pre-heated.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
Handle in accordance with good industrial hygiene and safety practice. Extinguish sources of ignition nearby and downwind.
Evacuate all unprotected personnel from the area.
Do not breathe fumes. Ensure free supply of fresh air in closed rooms.

Environmental Precautions: Prevent liquid from entering drains, sewers, waterways, ground and surface water or soil.
Notify proper authorities.

Methods for Cleaning Up: Contain spillage. Pick up with suitable absorbent material. Sweep/shovel up. Place into suitable container for disposal.

SECTION VII - HANDLING AND STORAGE

Handling and Storage:

- "Empty" containers retain residue and/or vapor and may be dangerous. Do not cut, weld, braze solder, drill, grind or expose such containers to heat, flames, sparks, or other ignition sources.
- Keep containers tightly closed when not in use.
- Avoid prolonged breathing of mist or vapor. Wash thoroughly after handling.
- NFPA Class III B storage.
- Store out of direct sunlight and in a cool, well-ventilated area.

SECTION VIII - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:

Component Name	CAS #	OSHA PEL	ACGIH TLV
Monoethylene Glycol	107-21-1	Not Established	100 mg/m3

Engineering Controls: Adequate local or mechanical ventilation to reduce vapor or mist to below the PEL or TLV.

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Monitoring: Follow accepted work practices for handling a flammable material.
Do not eat, drink or smoke in areas where this chemical is used or stored.
Wash hands prior to eating, drinking or using the restroom.
Have eye wash stations and safety showers readily available.

Personal Protective Equipment (PPE)

Eye Protection: Goggles or approved OSHA device with side shields; do not wear contact lenses when handling this product.

Skin Protection: Impervious solvent resistant gloves.
Impervious apron and work boots recommend where splashing may occur.

Respiratory Protection: Use the proper respirator in areas where the chemical exposure is unknown or above the OSHA PEL or ACGIH TLV.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, Colorless Viscous Liquid
Odor	Mild Odor
pH@25°C	N/A
Melting/Freezing Point	-13°C (8.6°F)
Flashpoint	232°F (TCC)
Specific Gravity	1.113 @ 60°F
Solubility	Soluble
Auto-Ignition Temperature	-
Decomposition Temperature	-
VOC Content	-
Odor Threshold	-
Boiling Range	386°F
Evaporation Point	<0.01 (Butyl Acetate=1)
Flammable Limits - Upper	15.3%
Flammable Limits - Lower	3.2%
Vapor Pressure	0.06 mmHg @ 20°C
Vapor Density (Air=1)	2.1 (Air=1)
Viscosity	-

SECTION X - STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Strong oxidizing agents

Hazardous Decomposition/Byproducts: CO and CO₂ and unidentified organic compounds may form during combustion.

Hazardous Polymerization: Will not occur.

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Polymerization Conditions to Avoid: None

SECTION XI - TOXICOLOGICAL INFORMATION

Likely Route of Exposure: Contact and inhalation; ingestion possible.

Inhalation: Low to moderate degree of toxicity by inhalation.
May cause respiratory tract irritation. Inhalation of vapors may cause drowsiness and dizziness.

Eye Contact: Causes eye irritation including stinging, watering and redness which may result in corneal injury.

Skin Contact: Contact may cause mild skin irritation including redness, burning and drying/cracking of the skin.

Ingestion: Aspiration hazard. Can enter the lungs during swallowing or vomiting and cause chemical pneumonia and edema.
Moderate to high degree of toxicity by ingestion. May be harmful or fatal if swallowed.
May produce CNS depression and kidney damage which may be fatal.

Toxicity:

Component Name	LD50	LC50
Monoethylene Glycol	Oral, mouse 5500 mg/kg; Oral, rat 4700 mg/kg; Dermal, rabbit	Inhalation, rat 10876 mg/kg

Reproductive Effects	Teratogenicity	Mutagenicity	Embryotoxicity	Sensitization to Product	Synergistic Products
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

SECTION XII - ECOLOGICAL INFORMATION

Ecotoxicity: Information not available.

Mobility: Information not available.

Degradability: Information not available.

BioAccumulation: Information not available.

SECTION XIII - WASTE DISPOSAL CONSIDERATIONS

Follow Federal, state, and local regulations.

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SECTION XIV - TRANSPORT INFORMATION

DOT SHIPPING INFORMATION

Proper Shipping Name: Environmentally Hazardous Substances, Liquid, N.O.S.

Contains: Ethylene Glycol

Hazard Class and Label: 9

Identification Number: UN 3082

Packaging Group: III

*According to CFR 173.155 - Ethylene Glycol is Not classified as a Hazardous substance in containers less than 119 Gallons.

SECTION XV - REGULATORY INFORMATION

TSCA STATUS:..... The components of this product are listed on the TSCA Inventory

SARA TITLE III SECTION 302/304 EXTREMELY HAZARDOUS SUBSTANCE:

No chemicals in this material are subject to the reporting requirements.

SARA TITLE III SECTION 311/312 HAZARD CATEGORIZATION:

Acute	Chronic	Fire	Pressure	Reactive
X	X			

SARA TITLE III SECTION 313 SUPPLIER INFORMATION:

No chemicals in this material are subject to the reporting requirements.

CERCLA SECTION 102(a) HAZARDOUS SUBSTANCE:

No chemicals in this material are subject to the reporting requirements.

SECTION XVI - OTHER INFORMATION

HMIS Health: 1

HMIS Flammability: 1

HMIS Reactivity: 0

Additional:

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Specification Information

Department issuing data sheet: Compliance

Email address: compliance@transcheminc.com

Training necessary: Follow all Federal, State and local regulations.

Disclaimer:

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