eaton
chemical

SAFETY DATA SHEET

This SDS Complies With 29 CFR 1910.1200 (The Hazard Communication Standard)

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Section I - Product & Company Identification

Product identifier

Product name : ETHYLENE GLYCOL
Product form: Liquid
Other means of identification: R08000

Relevant identified uses: Laboratory chemicals, manufacture of substances.

Details of the supplier of the safety data sheet

Eaton Chemical, Inc.
4124 NW Riverside Street Riverside, MO 64150
Phone: (816) 741-7985
Fax: (816) 741-0405
Email: custserv@eatonchemical.com

Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300

Section II – Hazards Identification

Classification

Acute toxicity, Oral (Category 4)
Serious eye damage/irritation (Category 2B)
Specific target organ toxicity-repeated exposure, Oral (Category 2), Kidney
Pictogram:



Signal Word:

Warning

Hazard Statements

Harmful if swallowed.
Causes eye irritation
May cause damage to organs (Kidney) through prolonged or repeated exposure if swallowed.

Precautionary Statements – Prevention

Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing mist/vapors/spray.
Do not eat, drink or smoke when using this product.

Precautionary Statements – Response

IF SWALLOWED: Call a POISON CENTER if you feel unwell. Rinse mouth.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical attention.
Get medical advice/attention if you feel unwell.

Section III –Composition/Information on ingredients

Mixture

Name	CAS NO.	%
Ethylene glycol	107-21-1	<= 100

Any concentration shown as a range is to protect confidentiality or is due to process variation.

Section IV – First Aid Measures

First Aid Measures

Inhalation: Remove to fresh air. If breathing stops, provide artificial respiration. If symptoms persist, call a physician.
Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.
Ingestion: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin Contact: Remove contaminated clothing, wash with plenty of water. If skin irritation persists, call a physician.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms

Harmful if swallowed.
May cause damage to kidneys if swallowed.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians: Treat symptomatically.

Section V – Fire Fighting Measures

Suitable Extinguishing Media

Alcohol resistant foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media: High volume water jet. May spread fire.

Specific Hazards Arising from the Chemical

Carbon oxides

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH approved and full protective gear.

Section VI –Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protective equipment as required. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe area.

Methods and Material for Containment and Cleaning Up

Methods for Containment: Prevent further leakage or spillage if safe to do so. Contain spillage.
Methods for Cleaning Up: Absorb with an inert dry material and place in an appropriate waste disposal container. Keep in suitable, closed containers for disposal.

Section VII – Handling & Storage

Precautions for Safe Handling

Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use personal protection recommended in Section 8.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place.

Section VIII – Exposure Controls/ Personal Protection

Exposure Guidelines:

Chemical Name	CAS #	ACGIH TLV	OSHA PEL	NIOSH TWA	US WEEL
Ethylene glycol	107-21-1	100 mg/m^3	No data available	No data available	TWA: 10 mg/m^3

Engineering Controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Respiratory Protection: Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Eye Protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Hand Protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Skin Protection: Prevent contact with shoes and clothing; use rubber apron and overshoes.
Other Protective Equipment: Eye wash stations and emergency showers should be available. The type and degree of personal protective equipment appropriate will depend on the specific work operation. Inspect and replace personal protective equipment at regular intervals; use professional care in their selection, use and care.

Section IX – Physical & Chemical Properties

Information on Basic Physical and Chemical Properties

Physical State	Liquid
Color	Green

Property	**Values**
pH	No data available
Melting Point/Freezing Point	-13 º C (9 º F)
Boiling Point/Boiling Range	196-198 º C (385-388 º F)
Flash Point	111º C (232 º F) [closed cup]
Evaporation Rate	1, nBuAc=1
Flammability (Solid,Gas)	n/a-liquid
Upper Flammable Limits	15.3% (V)
Lower Flammable Limits	3.2% (V)
Vapor Pressure	0.11-0.13 hPa(0.08-0.10 mmHg @ 20 º C (68 º F)
Vapor Density	2.14
Specific Gravity	1.11
Water Solubility	completely
Solubility in Other Solvents	No data available
Partition Coefficient	log Pow: -1.36
Autoignition Temperature	400 º C (752 º F)
Decomposition Temperature	No data available
Kinematic Viscosity	No data available
Dynamic Viscosity	43.4 mPa.s at 25 º C (77 º F)
Explosive Properties	Not an Explosive
Oxidizing Properties	Not an oxidizer.
Odor	Odorless
Odor Threshold	No data available

Section X – Stability & Reactivity

Reactivity
Not reactive under normal conditions.
Chemical Stability
Stable under recommended storage conditions.
Possibility of Hazardous Reactions
Reacts with strong oxidizing agents.
Conditions to Avoid
No data available.
Incompatible Materials Strong oxidizing agents, strong acids, strong bases..
Hazardous Decomposition Products
Carbon dioxide, carbon monoxide.

Section XI - Toxicological information

Information on Likely Routes of Exposure

Product Information

Inhalation: No known significant effects.
Eye Contact: No known significant effects.
Skin Contact: No known significant effects.
Ingestion: No known significant effects..

Chemical Name	CAS #	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene glycol	107-21-1	4700 mg/kg (Rat)	10626 mg/kg (Rabbit)	No data available

Chemical Name	Ethylene glycol
Skin corrosion/irritation	nonirritating
Serious eye damage/irritation	Mild irritation
Respiratory or skin sensitization	Not classified
Mutagenicity	Not classified
Carcinogenicity	Not classified as a human carcinogen.
Reproductive toxicity	Overexposure may cause disorder
Specific target organ toxicity-Single exposure	Not classified
Specific target organ toxicity-repeated exposure	Oral, May cause damage to kidneys.
Aspiration hazard	Not classified

Section XII - Ecological information

There is no data available for this product as a whole.

Chemical Name	CAS #	Algae/aquatic plants	Fish	Aquatic invertebrates
Ethylene glycol	107-21-1	No data available	LC50 Oncorhynchus mykiss (rainbow trout) 18500 mg/l 96 h	EC50 - Daphnia magna (Water flea) - 74,000 mg/l - 24 h

Persistence and Degradability: No data available
Bioaccumulation : No data available
Mobility: No data available

Section XIII - Disposal considerations

WASTE DISPOSAL METHOD
Dispose of material in accordance with all Federal, State and local regulations. Local regulations may be more stringent than Federal or State. Avoid discharge to sewers or waterways.

Section XIV - Transport information

DOT Proper Shipping Description:
UN3082, Environmentally hazardous substance, liquid, N.O.S. (Ethylene glycol), 9, PGIII

Section XV - Regulatory information

SARA Title III Section 311/312 (40CFR370): Acute, chronic health hazard.

SARA Title III Section 313 (40CFR372): Ethylene glycol
RCRA Status(40CFR261.33): Not listed
TSCA Inventory Status: Included
OSHA/NTP/IARC Carcinogen Status: Not listed
Canadian DSL Status: listed
Chemicals Known to the State of California to Cause Cancer or Reproductive Toxicity: This material is known to contain a chemical currently listed as carcinogens or reproductive toxins. Ethylene glycol.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethylene glycol	X	X	X

Section XVI - Other information

HMIS ratings: Health: 1 Flammability: 1 Reactivity: 0
Indication of changes: Revision – 1
Date Sheet Prepared: 06/30/2021
Other information: Author – EHS Administrator

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The information herein is presented in good faith and believed to be correct as of the date hereof. However, the manufacturer makes no representation as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purposes prior to use.
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END OF SDS