



ISO 9001 Quality System Certified Organization

MANUFACTURER & EXPORTER OF LABORATORY CHEMICALS AND OILS

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MATERIAL SAFETY DATA SHEET SDS/MSDS

1. Identification

Product Name : **Ethylene glycol (mono) AR**

CAS No 107-21-1

Synonyms Monoethylene glycol; 1,2-Ethanediol

Recommended Use Laboratory chemicals.

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

Signal Word

Warning

Hazard Statements

Harmful if swallowed

May cause drowsiness or dizziness

Specific target organ toxicity (single exposure) Category 3

Target Organs - Central nervous system (CNS). Specific target organ toxicity - (repeated exposure)

Category 2

Target Organs - Kidney, Liver.

May cause damage to organs through prolonged or repeated exposure

Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Response

Get medical attention/advice if you feel unwell

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Storage

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

Store locked up

Disposal

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Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

WARNING. Reproductive Harm - <https://www.p65warnings.ca.gov/>. 3. Composition/Information on Ingredients Component CAS No Weight %Ethylene glycol 107-21-1 >95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

Inhalation Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.

Ingestion Do NOT induce vomiting. Call a physician or poison control center immediately. Most important symptoms and Effects Difficulty in breathing. Notes to Physician Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray, carbon dioxide (CO₂), dry chemical, alcohol-resistant foam. Unsuitable Extinguishing Media No information available

Flash Point 111 °C / 231.8 °F

Method - DIN 51758

Autoignition Temperature 413 °C / 775.4 °F

Explosion Limits

Upper 15.30 vol %

Lower 3.20 vol %

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required.

Environmental Precautions Should not be released into the environment. See Section 12 for additional Ecological

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Information. Methods for Containment and Clean

Up Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

7. Handling and storage

Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Donot breathe mist/vapors/spray. Avoid contact with skin, eyes or clothing. Storage. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep awayfromheat, sparks and flame. Incompatible Materials. Strong oxidizing agents. Strongacids. Strong bases. Aldehydes.

8. Exposure controls / personal protection

Exposure Guidelines

Health

2

Flammability

1

Instability

1

Physical hazardsN/AComponent ACGIH TLV OSHA PEL NIOSH IDLH Mexico OEL (TWA)

Ethylene glycol TWA: 25 ppm

STEL: 50 ppm

STEL: 10 mg/m³

(Vacated) Ceiling: 50 ppm

(Vacated) Ceiling: 125

mg/m³ Ceiling: 100 mg/m³ Legend ACGIH - American Conference of Governmental Industrial Hygienists

9. Physical and chemical properties

Physical State Viscous liquid Liquid

Appearance Colorless

Odor Odorless

Odor Threshold No information available

pH 5.5-7.5 50% aq. sol

Melting Point/Range -13 °C / 8.6 °F

Boiling Point/Range 196 - 198 °C / 384.8 - 388.4 °F @760 mmHgFlash Point 111 °C / 231.8 °F

Method - DIN 51758

Evaporation Rate No information available

Flammability (solid,gas) Not applicable

Flammability or explosive limits

Upper 15.30 vol %

Lower 3.20 vol %

Vapor Pressure 0.12 mmHg @ 20 °C

Vapor Density 2.14 (Air = 1.0)

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Specific Gravity 1.113

Solubility miscible

Partition coefficient; n-octanol/water No data available

Autoignition Temperature 413 °C / 775.4 °F

Decomposition Temperature > 500°C

Viscosity 21 cP (20°C)

Molecular Formula C₂ H₆ O₂

Molecular Weight 62.06

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Hygroscopic.

Conditions to Avoid Incompatible products. Excess heat. Exposure to moist air or water.

Incompatible Materials Strong oxidizing agents, Strong acids, Strong bases, Aldehydes

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO₂)

Hazardous Polymerization Hazardous polymerization does not occur.

OSHA - Occupational Safety and Health Administration

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Personal Protective

Equipment Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or

European Standard EN 166.

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or

European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component LD₅₀ Oral LD₅₀ Dermal LC₅₀ Inhalation Ethylene glycol 7712 mg/kg (Rat) LD₅₀ = 9530 μL/kg (Rabbit)

LD₅₀ = 10600 mg/kg (Rat)

LD₅₀ > 3500 mg/kg (mice)

LC₅₀ > 2.5 mg/L (Rat) 6 h Toxicologically Synergistic

Products

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation May cause skin, eye, and respiratory tract irritation

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Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as acarcinogen. Component CAS No IARC NTP ACGIH OSHA Mexico Ethylene glycol 107-21-1 Not listed

Not listed Not listed Not listed Not listed Mutagenic Effects No information available

Reproductive Effects No information available. Developmental Effects No information available.

Teratogenicity No information available. STOT - single exposure Central nervous system (CNS)

STOT - repeated exposure Kidney Liver

Aspiration hazard No information available

Symptoms / effects, both acute and

delayed

No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated. 12. Ecological information

Ecotoxicity

Do not empty into drains. . Component Freshwater Algae Freshwater Fish Microtox Water

Flea Ethylene glycol EC50: 6500 - 13000 mg/L,

96h (Pseudokirchneriella

subcapitata)

LC50: 14 - 18 mL/L, 96h

static (Oncorhynchus

mykiss)

LC50: = 27540 mg/L, 96h

static (Lepomis macrochirus)

LC50: = 40761 mg/L, 96h

static (Oncorhynchus

mykiss)

LC50: 40000 - 60000 mg/L,

96h static (Pimephales

promelas)

LC50: = 16000 mg/L, 96h

static (Poecilia reticulata)

Not listed EC50: = 46300 mg/L, 48h (Daphnia magna)

LC50: = 41000 mg/L, 96h

(Oncorhynchus mykiss)

Persistence and Degradability Persistence is unlikely

Bioaccumulation/ Accumulation No information available. Mobility Will likely be mobile in the environment due to its water solubility. Component log Pow

Ethylene glycol -1.93

13. Disposal considerations



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Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. Regulatory information

United States of America Inventory

Component CAS No TSCA TSCA Inventory notification -

Active-Inactive

TSCA - EPA Regulatory Flags Ethylene glycol 107-21-1 X ACTIVE - Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL),

Australia (AICS), China (IECSC), Korea (KECL).

Component CAS No DSL NDSL EINECS PICCS ENCS ISHL AICS IECSC KECL Ethylene glycol 107-21-1 X - 203-473-3 X X X X KE-13169 KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

U.S. Federal Regulations

SARA 313

Component CAS No Weight % SARA 313 - Threshold Values % Ethylene glycol 107-21-1 >95 1.0 SARA

311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air

Component HAPS Data Class 1 Ozone Depletors Class 2 Ozone Depletors Ethylene glycol X - OSHA -

Occupational Safety and

Health Administration

Not applicable

CERCLA This material, as supplied, contains one or more substances regulated as a

hazardous substance under the Comprehensive Environmental Response

Compensation and Liability Act (CERCLA) (40 CFR 302)

Component Hazardous Substances RQs CERCLA EHS RQs Ethylene glycol 5000 lb - California

Proposition 65 This product contains the following Proposition 65 chemicals. Component CAS No

California Prop. 65 Prop 65 NSRL Category Ethylene glycol 107-21-1 Developmental - Developmental

U.S. State Right-to-Know

Regulations

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Component Massachusetts New Jersey Pennsylvania Illinois Rhode Island Ethylene glycol X X X X -
U.S. Department of Transportation

Reportable Quantity (RQ): Y

DOT Marine Pollutant N

DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals. Other International Regulations

Mexico - Grade Slight risk, Grade 1

Authorisation/Restrictions according to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component CAS No OECD HPV Persistent Organic Pollutant

Ozone Depletion

Potential

Restriction of

Hazardous Substances (RoHS) Ethylene glycol 107-21-1 Listed Not applicable Not applicable Not applicable

Component CAS No Seveso III Directive (2012/18/EC) -

Qualifying Quantities for Major Accident Notification

Seveso III Directive (2012/18/EC) -

Qualifying Quantities for Safety Report

Requirements

Rotterdam

Convention (PIC)

Basel Convention (Hazardous Waste) Ethylene glycol 107-21-1 Not applicable Not applicable Not applicable

Not applicable

16. Other information

Revision Summary This document has been updated to comply with the US OSHA

HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS). Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a

guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific

material designated and may not be valid for such material used in

combination with any other materials or in any process, unless specified in the text



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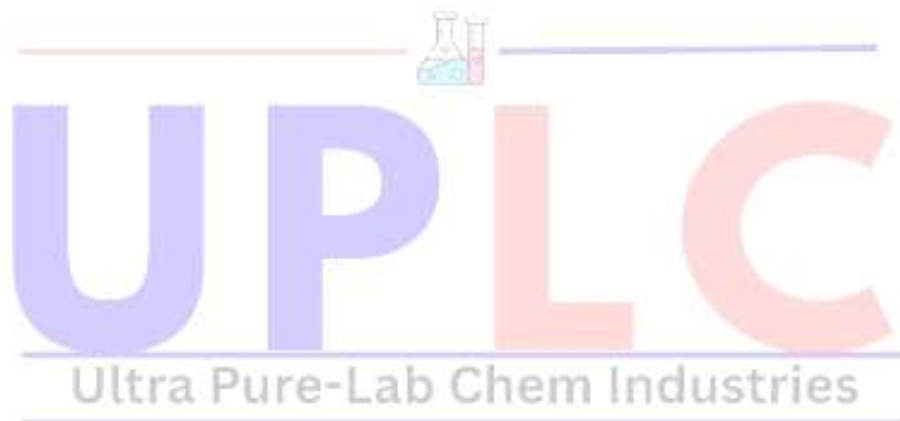
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