



Quick Identifier

(as used in label and list)
Ethylene Glycol & Water

Safety Data Sheet

Section 1

Product and Company Identification

Common Name

Ethylene Glycol & Water

Product Model Number

ETH GLY (MEG, Dihydroxy ethane 1,2)

Product File Number

920:405-ETH GLY-9

Product Use

Fill Fluid

Manufacturer's Name

Meriam

Emergency Phone Numbers

1-800-255-3924 (US), + 01 813 248 0585 (International)

Address

10920 Madison Ave.

Engineering Control Data

MSDS - A35808, Rev. N, EO 7519
Drawing - A34038

City, State, Zip

Cleveland, Ohio 44102

Date Prepared

05-Nov-2015

Section 2

Hazards Identification

Hazards designation:

None.

GHS Classification: Health

Acute toxicity:

Category 4.

Specific target organ toxicity – repeated exposure

- Category 2.
- Kidney.

GHS Label: Health Hazard Warning

H302:

Harmful if swallowed.

H373:

- May cause damage to organs or organ systems through prolonged or repeated exposure.
- Kidney.

Precautionary statements

Prevention:

P260:

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

P264:

Wash hands thoroughly after handling.

P270:

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

Section 5

Fire Fighting Measures

Suitable extinguishing media:

Small fires:

- Any extinguisher suitable for Class B fires, dry chemical, CO₂, water spray or fire fighting foam.

Large fires:

- Water spray, fog or firefighting foam.
- Water may be ineffective for fighting the fire, but may be used to cool fire exposed containers.
- Keep containers and surroundings cool with water spray.

Firefighting procedures:

- Isolate area around container involved in fire.
- Cool tanks, shells, and containers exposed to fire and excessive heat with water.
- For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure.
- Major fires may require withdrawal, allowing the tank to burn.
- Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied firefighting foam.
- Exposure to decomposition products may be a hazard to health.
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Use water spray to cool unopened containers.
- Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Unusual Fire and Explosion Hazards:

- None.

Combustion Products:

- Carbon oxides, hydrogen chloride gas.

Section 6

Accidental Release Measures

Small spill:

Absorb liquid and place in sealed container for disposal.

Large spill:

- Absorb liquid and place in sealed container for disposal.
- Avoid runoff into storm sewers and ditches which lead to waterways.
- Contain spilled liquid with sand or earth.
- **Do not** use combustible materials such as sawdust.
- If this material is released into a work area, evacuate the area *immediately*.

Environmental precautions

Water spill:

Keep material out of storm sewers and ditches that lead to waterways.

Land spill:

Spills and releases may have to be reported to federal and/or local authorities.

Air spill:

Control or stop the loss of volatile materials to the atmosphere.

Special protective Equipment:

Wear suitable protective clothing, gloves and eye/face protection.

Section 7

Handling and Storage

Handling:

- Do not get in eyes, on skin or on clothing.
- Do not breathe vapors or mists.
- Keep Container closed.
- Use only with adequate ventilation.
- Use good personal hygiene practices.
- Wash hands before eating, drinking, smoking.
- Remove contaminated clothing and clean before re-use.
- Destroy contaminated belts and shoes and other items that cannot be decontaminated.
- Keep away from heat and flame.

Storage:

- Store in tightly closed containers in cool, dry, well-ventilated area away from heat, sources of ignition and incompatibles.
- Ground lines and equipment used during transfer to reduce the possibility of static spark-initiated fire or explosions.
- Store at ambient or lower temperature.
- Store out of direct sunlight.
- Keep containers tightly closed and upright when not in use.
- Protect against physical damage.
- Empty containers may contain toxic residue or vapors.
- Do not cut, grind, drill or weld on or near containers unless precautions are taken against these hazards.

Section 8

Exposure Controls/Personal Protection

Exposure limits

Component: Ethylene glycol.

OHSA - TWA

-

OHSA - CEIL

- 100 mg/m³

ACGIH - TWA

-

ACGIH - STEL

- 50 ppm

Engineering controls:

- Use only in a well ventilated area.
- Use explosion-proof ventilation equipment.

Personal protective equipment

Eyes and Face: Use chemical splash goggles and face shield (ANSI Z87.1 or approve equivalent).

Skin: Wear chemical resistant neoprene, butyl rubber or vinyl gloves.

Respiratory:

- NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.
- Protection provided by air purifying respirators is limited.
- Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Protective clothing:	<ul style="list-style-type: none"> • Wear protective gloves and clean body-covering clothing. • Chemical resistant clothing and boots may be required.
Work hygienic practices:	<ul style="list-style-type: none"> • Establish good personal hygiene and work practices. • Always wash hands and face before eating, drinking or smoking. • Provide safety shower and eye wash station in work area.

Section 9 Physical and Chemical Properties

Physical state:	Slightly viscous liquid.
Odor:	Mild.
Appearance:	Clear, colorless liquid.
pH:	N/A.
Percent volatile:	100 %
Vapor pressure:	0.0098 mmHg
Vapor density:	2.14
Boiling point:	471 °F
Freezing point:	14 °F
Flashpoint & Method:	239 °F (Pensky-Martens Closed Cup)
Solubility in water:	Complete.
Evaporation Rate:	> 0.01
Specific gravity:	1.116
Viscosity:	33 mm ² /S
Note:	<ul style="list-style-type: none"> • The information in this section is calculated from specific known information about this product. • This information should not be used as exact test results or specifications. • The information is provided as typical properties for this product.

Section 10 Stability and Reactivity

Stable:	Yes.
Hazardous polymerization:	No.
Stability:	Stable under ordinary conditions of use and storage.
Conditions to avoid:	Heat, flames, and other sources of ignition.
Hazardous decomposition products:	Carbon dioxide and/or carbon monoxide.
Incompatible materials:	Strong oxidizing agents.

Section 11

Toxicological Information

Acute

Dermal LD50: > 5 000 mg/kg

Oral LD50: 300 mg/kg to 2 000 mg/kg

Inhalation: Low

Eye effects: Slightly irritating to eyes.

Skin effects: Slightly irritation to the skin.

Carcinogenicity

IARC: Not listed.

NTP: Not listed.

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

Reproductive effects:

- Does not impair fertility.
- Not a developmental toxicant.
- Causes foetotoxicity in animals; considered to be secondary to maternal toxicity.

Teratogenic effects: No data available.

Mutagenicity: Not indicated.

Section 12

Ecological Information

Soil:

- When released into the soil, this material is expected to readily biodegrade.
- When released into the soil, this material is expected to leach into groundwater.
- When released into the soil, this material is not expected to evaporate significantly.

Water:

- When released into the water, this material is not expected to evaporate significantly.
- When released into the water, this material is expected to readily biodegrade.
- When released into the water, this material is expected to have a half-life between 1 and 10 days.

The LC50 96-hour values: The LC50 96-hour values for fish are over 100 mg/L.

Section 13

Disposal Considerations

Disposal: Dispose of all cleanup materials in accordance with all local, state, and federal regulations.

Section 14

Transport Information

Proper shipping name: N/A.

Hazard Class or Division: N/A.

Identification Number: N/A.

Packing Group: N/A.

Section 15

Regulatory Information

United States

TSCA (Toxic Substance Control Act): Ethylene Glycol is listed.

SARA Section 302 Extremely Hazardous Substances (EHS): This product does not contain any components regulated under Section 302 (40 CFR 355) as Extremely Hazardous Substances.

SARA Section 304 CERCLA Hazardous Substances: This product does not contain any components regulated under section 304 (40 CFR 370) as hazardous chemicals for emergency release.

SARA Section 311/312 Hazard Communication Standard (HCS): This product is regulated under Section 311/312.

SARA Section 313 Toxic Chemical List (TCL): This product contains a component listed on the Section 313 Toxic Chemical List.

Clean Water Act CWA – Priority Pollutants: Not provided.

State regulations

California Proposition 65: Not Provided

International regulations

Not provided.

Section 16

Other Information

This product is for industrial and laboratory use only.

- Do not store in open, unlabeled or mislabeled containers.
 - Store in cool, dry place with adequate ventilation.
 - Keep away from flames and high temperatures.
 - For personal hygiene protection, we recommend that employees wash thoroughly after handling product.
 - Always wash up before eating, smoking, and using toilet facilities.
 - Keep out of reach of children.
-
- HMIS® rating: HEALTH - 1 FLAMMABILITY - 1 REACTIVITY - 0
-

Disclaimer of Liability

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of the results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. User of any chemical should satisfy themselves that the conditions and methods of use assure that the chemical is used safely. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN OR THE CHEMICAL TO WHICH THE INFORMATION REFERS. It is the responsibility of the user to comply with all applicable federal, state, local laws and regulations.
