

NOTICE: Judgment may be based on indirect test and technical literature. The OSHA Hazard Communication Standard only requires SDS's and special labeling for materials defined as "HAZARDOUS"; see 29 CFR 1910.1200 (c). This document may be about a product which is NOT hazardous but is provided as information for our customers. See references for information.

SECTION 1. IDENTIFICATION

Product Identifier:	Ethylene Glycol	Product Identification # (PIF):	0356
Product Use:	Solvent Cleaner	Emergency Telephone #:	1-800-255-3924 ChemTel
Distributed by:	Ecolink	Date Prepared:	September 21, 2021
	PO Box 9		
	Tucker, GA 30085		
	www.ecolink.com		

SECTION 2. HAZARD(S) IDENTIFICATION



Signal Word: **WARNING**

Hazard Statement	Category	Code	Hazard Class
May be harmful if swallowed	5	H303	Acute Toxicity, Oral
May cause damage to organs through prolonged or repeated exposure	2	H373	STOT, Repeated Exposure

Precautionary	Code	Statement
Prevention	P260	Do not breathe mists/vapors/sprays.
Response	P312 P314	Call a POISON CENTER or doctor/physician if you feel unwell. Get medical advice/attention if you feel unwell (Repeated exposure)
Storage	None	None
Disposal	P501	Dispose of contents/container in compliance with all Federal, State/Provincial and local laws and regulations.

Hazards not otherwise classified: May cause mild eye irritation. Inhaling airborne mists/sprays of product may cause respiratory irritation. Overexposure may cause central nervous system depression. May be harmful or fatal if swallowed – based on product use, exposure is unlikely. Pregnant women should avoid exposure.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Common Name	CAS #	Concentration Range %
1,2-Ethanediol	Ethylene glycol, EG	107-21-1	80 – 100

SECTION 4. FIRST AID MEASURES

Eyes: Flush well with water for at least 15 minutes, holding eyelids open. Remove any contact lenses and continue rinsing. Seek medical attention if irritation persists.

Skin: Wash with soap and water. Remove contaminated clothing and launder before reuse. If irritation develops and persists, seek medical attention.

Inhalation: 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. If breathing is difficult, have a trained person administer oxygen. If respiration stops, have a trained person administer artificial respiration by way of pocket mask equipped with one-way valve or other proper respiratory device – Do NOT use mouth-to-mouth method if victim inhaled material. Call a physician.

Ingestion: Do not induce vomiting unless instructed to do so by medical personnel. If completely conscious and aware, rinse out mouth with water. Do not give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Call a POISON CENTER or doctor/physician if you feel unwell.

Note to physician: It is estimated that the lethal oral dose of ethylene glycol to adults is of the order of 1.0 ml/kg. The signs and symptoms in ethylene glycol poisoning are those of metabolic acidosis. An effective intravenous antidote for physician use is 4-methylpyrazole.

SECTION 5. FIRE-FIGHTING MEASURES

Flash Point(TCC): 245°F (118°C)

NFPA 30 Flammability: Class IIIB Combustible Liquid

Extinguishing Media: Foam, dry chemical, carbon dioxide fire extinguishers, water spray. Do not spray water directly on fire. Use water spray to cool containers.

Specific hazards arising from chemical: In a fire, or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products: Carbon monoxide and carbon dioxide.

Firefighting protective equipment: Wear a self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.

Sensitivity to static discharge: This product is not sensitive to static discharge.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment (Section 8). Eliminate all ignition sources. Ventilate area. Do not breathe fumes/mists/vapors/sprays. Wash thoroughly after handling.

For Small Spills: Spilled material may be slippery. Avoid dispersal of material and runoff into soil, waterways, drains and sewers. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Wash walking surfaces with water to reduce slipping hazard. Dispose of contaminated absorbent material in accordance with local, state and federal regulations.

For Large Spills: Large spills cannot occur due to packaging.

SECTION 7. HANDLING AND STORAGE

Handling: Use personal protection equipment (Section 8). Use with adequate ventilation. Do not breathe mists/vapors/sprays. Avoid use during pregnancy. Never use welding or cutting torch on or near drum (even empty) because product can ignite explosively. Do not mix with other chemicals unless label instructs otherwise. Wash thoroughly after handling.

Storage: Keep away from heat, flame, or sunlight. Keep from freezing. Keep container closed when not in use. Protect from physical damage. Store away from strong oxidizing agents, strong acids and strong bases.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredient	CAS #	OSHA/PEL	ACGIH/TLV	STEL
Ethylene glycol	107-21-1	50ppm	100mg/m3	Not established

Engineering Controls: Provide adequate ventilation. Observe occupational exposure limits and keep the risk of exposure to a minimum.

Personal protective equipment:

Eye: Safety glasses with side shields or splash proof goggles.

Skin: Chemical resistant (impervious) gloves. Normal materials handling clothing. Boots.

Respirator: Use NIOSH approved protection with organic vapor cartridge if PEL is exceeded, or if mists/vapors/sprays are generated.

Clothing: Normal materials handling clothing.

Other: Use in a well ventilated area. Do not eat, drink or smoke while handling. Wash thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid, water-white	Upper/Lower flammability limits	Not determined
Odor	None	Vapor pressure	<0.1mmHg @ 20°C
Odor threshold	Not determined	Vapor density (Air = 1)	1.0
pH	Not applicable	Specific gravity (water = 1.0)	1.057 g/ml
Melting point	Not determined	Solubility in water	Completely
Freezing point	10.4°F (-12°C)	Partition coefficient (n-octanol/water)	Not determined
Boiling point (IBP)	232°F (111°C)	Auto-ignition temperature	775°F (412°C)
Flash point (TCC)	245°F (118°C)	Decomposition temperature	Not determined
Evaporation rate (n-butyl acetate=1)	0.062	Viscosity, #5 @ 20rpm Brookfield	Not determined
Flammability	Class III B Combustible	VOC by weight	100%

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.

Chemical stability: Stable under normal, ambient temperature and conditions.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Heat, flame and sparks. Keep from freezing. Do not mix with other chemicals

Incompatible materials: Avoid strong oxidizing agents, strong acids and strong bases.

Hazardous combustion products: Carbon monoxide and carbon dioxide.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicity:

Oral (LD50 Rat): 5840mg/kg

Dermal (LD50 Rabbit): 9530mg/kg

Inhalation (LC50 Rat): Not available

Skin corrosion/irritation: Not classified.

Serious eye damage/irritation: Not classified.

Respiratory or skin sensitization: Not classified.

Germ cell mutagenicity: No data available.

Carcinogenicity: NTP/IARC/OSHA Carcinogen: No

Reproductive toxicity: NOAEC = 60 ppm (Inhalation, dose = 0 – 1000ppm for 10 days, 6hr/day). Symptoms: Maternal toxicity, malformations were observed. Fertility/embryotoxicity classification not possible from current data.

STOT-single exposure: Not classified.

STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure. Can cause harm to kidneys, blood, nerves, liver and lungs. May be fatal if severely overexposed by ingestion.

Aspiration hazard: Not classified.

Ingestion: May be harmful or fatal if swallowed – based on product use, exposure is unlikely.

Likely routes of exposure: Eyes, skin

Interactive effects: Pregnant women should avoid exposure.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity:

96h LC-50 (fish): >27,000ppm

96h EC-50 (invertebrates): >50,000ppm

48h LC-50 (algae): >65,000ppm

Persistence and degradability: Expected to be readily biodegradable

Bioaccumulative potential: Low potential.

Mobility in soil: Soil mobility not determined. This product is dispersible in water and may spread in water systems.

Other adverse effects: None known.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations.

Contaminated Packaging: Since emptied containers retain product residue, follow label warnings even after container is emptied.

Do not cut, drill, grind or weld on or near the container.

RCRA: Not listed.

SECTION 14. TRANSPORT INFORMATION

United States DOT:

If > 10000 LB / 4545 KG of this product is in I container, it exceeds the RQ of ethylene glycol. "RQ" must be put before the DOT shipping name.

Nonbulk-Not regulated

Bulk: UN3082, Environmental hazard substances, liquid, n.o.s (Ethylene Glycol)

Hazard Class: 9

Packing Group: PG-III

IATA and IMDG:

Not regulated

Marine Pollutant (IMDG Code): Not listed

Transportation in bulk (IMDG - Annex II of MARPOL 73/78 and IBC Code): Not offered in bulk for transport overseas.

SECTION 15. REGULATORY INFORMATION

TSCA: All components of this product are on the TSCA inventory or are exempt from TSCA inventory requirements under 40 CFR 720.30.

SARA Section 302: The components of this product are either not regulated or regulated, but present in negligible concentrations.

SARA TITLE III Section 311/312

Immediate (Acute) Health	Yes	Fire Hazard	No
Delayed (Chronic) Health	Yes	Reactive Hazard	No

SARA Title 313: This material contains the following chemical components with known CAS numbers subject to reporting requirements (40 CFR 372): Ethylene Glycol CAS# 107-21-1, % by wt. = 47%.

CERCLA: This product has a reportable quantity of 10,000 lbs. (Ethylene Glycol), but is not considered a Hazardous Substance since the quantity does not equal or exceed the RQ in one package (49 CFR 171.8, definition of "Hazardous Substance").

United States Right-To-Know: Ethylene Glycol CAS# 107-21-1 – Massachusetts, New Jersey and Pennsylvania.

Proposition 65: This material contains the following ingredients for which the state of California has found to cause cancer, birth defects or other reproductive harm: Ethylene glycol CAS# 107-21-1.

RCRA: Not listed.

SECTION 16. OTHER INFORMATION

Date Prepared: January 8, 2019

Hazard Ratings (HMIS): Health 2, Flammability 1, Reactivity 0. Personal Protection Rating to be supplied by user based on use conditions.

Carefully read all instructions on label before handling this product.

Keep out of reach of children.

"FOR INDUSTRIAL USE ONLY"

Abbreviation	Full Name/Explanation
ACGIH	American Conference of Government Industrial Hygienists
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CNS	Central Nervous System
CFR	Code of Federal Regulations
DOT	Department of Transportation
EC	Effective Concentration
HMIS	Hazardous Material Information System
IARC	International Agency for Research on Cancer
LC	Lethal Concentration
LD	Lethal Dose
NA	Not Applicable
ND	Not Determined
NE	Not Established
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation Recovery Act
SARA	Superfund Amendments and Reauthorization Act
SE	Single Exposure
STEL	Short-Term Exposure Limit
STOT	Specific Target Organ Toxicity
TLV	Threshold Limit Value

TSCA	Toxic Substance Control Act
VOC	Volatile Organic Compounds

The information contained herein is based on data available to us and is believed to be correct. We make no warranty, however, expressed or implied regarding the accuracy of these data or the results obtained from the use thereof.

Regulatory Standards: DOT TITLE 49, Code of Federal Regulations 172.101: Parts 100 to 177, Revised 10/1/92.
SUPER FUND AMENDMENTS REAUTHORIZATION ACT OF 1986, TITLE III TOXIC SUBSTANCE CONTROL ACT LIST (TSCA)- INGREDIENTS LISTED. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES NATIONAL TOXICOLOGICAL PROGRAM (NTP) REPORT OF CARCINOGENS INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) MONOGRAPHS, OCCUPATIONAL SAFETY & HEALTH REGULATIONS. CODE OF FED. REGS. FOOD & DRUG, 21 PARTS 170 to 199, Revised 4/1/91, 173.310.