

PARAMOUNT

CHEMICALS & PLASTICS, INC.

Ethylene Glycol Safety Data Sheet

Section 1: Chemical Product and Company Identification

Product Identifier: Ethylene Glycol

Distributed by:

Paramount Chemicals & Plastics, Inc.

CCN 811901

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Section 2: Hazards Identification

GHS Hazard Pictograms:



GHS Signal Word: **WARNING!**

GHS Hazard Statements:

Health, Acute toxicity, 4 Oral

Health, Specific target organ toxicity - Repeated exposure, 2

GHS Precautionary Statements:

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P264 - Wash skin 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.

P314 - Get Medical advice/attention if you feel unwell.
P330 - Rinse mouth.
P501 - Dispose of contents/container to local regulations.
H302 - Harmful if swallowed
H373 - May cause damage to organs through prolonged or repeated exposure

Section 3: Composition/Information On Ingredients

CAS Number: 107-21-1 Ethylene Glycol
Percent: 100%

Section 4: First Aid Measures

If In Eyes: Flush eyes with water as a precaution.
If On Skin: Wash with soap and water. Consult a physician.
If Inhaled: If inhaled, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
If Ingested: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture: Carbon oxides.
Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:
Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental precautions: Do not let product enter drains.
Methods and materials for containment and cleaning up: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section 7: Handling And Storage

Handling Precautions: Avoid contact with eyes, skin, or clothing.
Avoid breathing vapors or mist. **Storage Precautions:** Keep container tightly closed in a dry well ventilated place.

Section 8: Exposure Controls/Personal Protection

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product.

Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.

Control of environmental exposure: Do not let product enter drains.

Section 9: Physical And Chemical Properties

Appearance: Colorless

Physical State: Liquid

Odor: No data available

Odor Threshold: No data available

Solubility: No data available

Spec Grav./Density: 1.113

Viscosity: No data available

Boiling Point: 196 - 198 °C (385 - 388 °F)

Freezing/Melting Pt.: -13 °C (9 °F)

Flash Point: 111 °C (232 °F) - closed cup

Partition Coefficient: No data available

Vapor Pressure: 0.11 hPa (0.08 mmHg) at 20 °C (68 °F) - 0.13 hPa (0.10 mmHg) at 20 °C (68 °F)

Vapor Density: 2.14 - (Air = 1.0)

pH: No data available

Evap. Rate: 1

Auto-Ignition Temp: 400 °C (752 °F)Auto-flammability

Decomp Temp: No data available

UFL/LFL: 15.3 %(V) / 3.2 %(V)

Section 10 - Chemical Stability & Reactivity Information

Chemical Stability: Stable under recommended storage conditions.

Conditions to Avoid: No data available.

Materials to Avoid: Strong Acids; Strong Bases; Strong Oxidizing Agents; Aldehydes; Aluminum.

Reactivity: No data available

Hazardous Decomposition: Carbon oxides.

Section 11 - Toxicological Information

LD50 Oral - rat - 4,700 mg/kg

Inhalation: no data available

LD50 Dermal - rabbit - 10,626 mg/kg

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: Eyes - rabbit Result: Mild eye irritation - 24 h

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity: This product is or contains a component that is probably not

carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity: Laboratory experiments have shown teratogenic effects.
Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.
Specific target organ toxicity - single exposure: no data available
Specific target organ toxicity - repeated exposure: no data available
Aspiration hazard: no data available
When ingested early symptoms mimic alcohol inebriation and are followed by nausea, vomiting, abdominal pain, weakness, muscle tenderness, respiratory failure, convulsions, cardiovascular collapse, pulmonary edema, hypocalcemic tetany, and severe metabolic acidosis. Without treatment, death may occur in 8 to 24 hours. Victims who survive the initial toxicity period usually develop renal failure along with brain and liver damage., Exposure to and/or consumption of alcohol may increase toxic effects.
Central nervous system - Irregularities - Based on Human Evidence.

Section 12 - Ecological Information

Ethylene glycol (107-21-1) [100%]

Information on ecological effects/Toxicity:

Toxicity to fish LC50 - *Oncorhynchus mykiss* (rainbow trout) - 18,500 mg/l - 96 h.

LC50 - *Leuciscus idus* (Golden orfe) - > 10,000 mg/l - 48 h.

NOEC - *Pimephales promelas* (fathead minnow) - 32,000 mg/l - 7 d.

NOEC - *Pimephales promelas* (fathead minnow) - 39,140 mg/l - 96 h.

Toxicity to daphnia and EC50 - *Daphnia magna* (Water flea) - 74,000 mg/l - 24 h.
other aquatic invertebrates.

NOEC - *Daphnia* - 24,000 mg/l - 48 h.

LC50 - *Daphnia magna* (Water flea) - 41,000 mg/l - 48 h.

Persistence and degradability: no data available.

Ratio BOD/ThBOD 0.78 %.

Bioaccumulative potential: Does not bioaccumulate.

Bioaccumulation other fish - 61 d - 50 mg/l.

Bioconcentration factor (BCF): 0.60

Mobility in soil: no data available.

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other adverse effects: no data available.

Section 13: Disposal Considerations

Dispose of in accordance with state, local, and Federal regulations.

Section 14: Transport Information

Non D.O.T. Regulated

Section 15: Regulatory and Other Information

Regulatory Information: Ethylene glycol (107-21-1) [n/a%] CERCLA, HAP, MASS,

NJHS, OSHAWAC, PA, SARA313, TSCA, TXAIR.

NFPA: Health = 1, Fire = 1, Reactivity = 0, Specific Hazard = n/a

HMIS III: Health = 1(Chronic), Fire = 1, Physical Hazard = 0

Last Updated: 04/2017

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