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Material Safety Data Sheet

2-Phenoxyethanol MSDS

Section 1: Chemical Product and Company Identification

Product Name: 2-Phenoxyethanol

CAS#: 122-99-6

Synonym: Ethylene Glycol Monophenylether; Phenylmonoglycol Ether; EPH

Chemical Name: 2-Phenoxyethanol

Chemical Formula: C₈H₁₀O₂

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
2-Phenoxyethanol	122-99-6	100

Section 3: Hazards Identification

Appearance: colorless, oily liquid.

Warning! Causes severe eye irritation. Causes skin irritation. May cause respiratory and digestive tract irritation. May be harmful if swallowed. May cause central nervous system depression. May cause kidney damage.

Target Organs: Kidneys, central nervous system.

Potential Health Effects

Eye: Causes eye irritation.

Skin: Causes skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure. May cause kidney failure. May be harmful if swallowed. Lesions may appear in the brain, lungs, liver, meninges, and heart.

Inhalation: May cause respiratory tract irritation.

Chronic: Chronic ingestion may cause effects similar to those of acute ingestion.

Section 4: First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid. Do NOT allow victim to rub eyes or keep eyes closed.

Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. Get medical aid if cough or other symptoms appear. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

Notes to Physician: Treat symptomatically and supportively.

Section 5: Fire and Explosion Data

General Information: As in any fire, wear a self-contained breathing apparatus in pressure demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. Containers may explode when heated.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam. Use agent most appropriate to extinguish fire. Cool containers with flooding quantities of water until well after fire is out.

Flash Point: 130 deg C (266.00 deg F)

Autoignition Temperature: 430 deg C (806.00 deg F)

Explosion Limits, Lower:Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 0; Flammability: 1; Instability: 0

Section 6: Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Provide ventilation.

Section 7: Handling and Storage

Handling: Wash thoroughly after handling. Wash hands before eating. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation. Wash clothing before reuse.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical State: Liquid

Appearance: colorless, oily

Odor: Faint aromatic odor

pH: Not available.

Vapor Pressure: < 1 mm Hg @25C

Vapor Density: 4.8

Evaporation Rate:Not available.

Viscosity: 29 mPas 20 deg C

Boiling Point: 244.70 deg C @ 760.00mm Hg

Melting Point: 11 - 13 deg C

Decomposition Temperature:Not available.

Solubility: 30 G/L WATER 20 deg C

Specific Gravity/Density:1.105~1.125g/cm³

Molecular Formula:C₈H₁₀O₂

Molecular Weight:138.17

Section 10: Stability and Reactivity Data

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, excess heat.

Incompatibilities with Other Materials: Strong oxidizing agents - acid chlorides - acid anhydrides.

Hazardous Decomposition Products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

RTECS#:

CAS# 122-99-6: KM0350000

LD50/LC50:

CAS# 122-99-6:

Draize test, rabbit, eye: 6 mg Moderate;

Draize test, rabbit, eye: 250 ug/24H Severe;

Draize test, rabbit, skin: 500 mg/24H Mild;

Oral, mouse: LD50 = 933 mg/kg;

Oral, rat: LD50 = 1260 mg/kg;

Skin, rabbit: LD50 = 5 mL/kg;

Skin, rat: LD50 = 14422 mg/kg;

Carcinogenicity:

CAS# 122-99-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: No information available.

Mutagenicity: No information available.

Neurotoxicity: No information available.

Section 12: Ecological Information

Ecotoxicity: No data available. Fish toxicity: LC50 (96 hr) fathead minnow 345 mg/l Invertebrate toxicity: LC50 (5 min) Photobacterium phosphoreum 32.4 ppm Microtox test. [The Dictionary of Substances and their Effects, 1992]

Environmental: Terrestrial: 2-phenoxyethanol is readily biodegradable, will evaporate slowly from surfaces. Aquatic: Readily biodegradable. Aquatic hydrolysis, volatilization direct photolysis, bioconcentration, and adsorption to sediment are not expected to be important. Atmospheric: Expected to exist almost entirely in the vapor phase in the ambient atmosphere, half-life 11.6 hr. Not expected to bioconcentrate. biological screening study have indicated that 2-phenoxyethanol is readily biodegradable(1). 2-Phenoxyethanol may leach readily in

Physical: No information found.

Other: No information available.

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

IATA
Not regulated as a hazardous material.
IMO
Not regulated as a hazardous material.
RID/ADR
Not regulated as a hazardous material.

Section 15: Other Regulatory Information

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: XN
Risk Phrases:
R 22 Harmful if swallowed.
R 36/38 Irritating to eyes and skin.
Safety Phrases:
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
WGK (Water Danger/Protection)
CAS# 122-99-6: 1
Canada
CAS# 122-99-6 is listed on Canada's DSL List.
CAS# 122-99-6 is listed on Canada's Ingredient Disclosure List.
US FEDERAL
TSCA
CAS# 122-99-6 is listed on the TSCA inventory.

Section 16: Other Information

References: Not available.
Other Special Considerations: Not available.
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