

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: 2-PHENOXYETHANOL

CAS Number: 122-99-6

1. IDENTIFICATION:

Product Code : 90912, 91305, 92415, 99095

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2. HAZARDS IDENTIFICATION:**Hazard classification****Health hazards**

Acute toxicity, Oral : Category 4

Serious eye damage : Category 1

**Specific target organ
toxicity - single exposure,
Respiratory system** : Category 3

Labels elements :

Hazard symbol : 

Signal word : Danger

Hazard statement : Harmful if swallowed.
: Causes serious eye irritation.
: May cause respiratory irritation.

Precautionary statement

Prevention : Obtain special instructions before use.
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety precautions have been read and understood.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
Keep container tightly closed. Ground/ bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting/ equipment.
Use only non-sparking tools. Take precautionary measures against static discharge.

Response : IF exposed or concerned: Get medical advice/ attention.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.



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IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

- Storage** : Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- Disposal** : Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
- Other hazards which do not result in GHS classification** : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION/ INFORMATION ON INGREDIENTS:

Ingredient	CAS Number	Percent	Hazardous
2-Phenoxyethanol	122-99-6	NLT 99.0%	Yes

4. FIRST AID MEASURES:

- General information** : Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
- Ingestion** : Call a physician or poison control center immediately. Rinse mouth.
- Inhalation** : Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.
- Skin contact** : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
- Eye contact** : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
- Most important symptoms/effects, acute and delayed** : The most important known symptoms and effects are described in the labelling.
- Indication of immediate medical attention and special treatment needed** : No data available.

5. FIRE FIGHTING MEASURES:

- General information** :
- Suitable (and unsuitable) extinguishing media**
- Suitable extinguishing media** : Water spray, foam, dry powder or carbon dioxide.
- Unsuitable extinguishing media** : For this substance/mixture no limitations of extinguishing agents are given.
- Specific hazards arising from the chemical** : Carbon oxides Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.

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Special protective equipment and precautions for firefighters

- Special firefighting procedures** : Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.
- Special protective equipment for fire-fighters** : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. ACCIDENTAL RELEASE MEASURES:

- Personal precautions, protective equipment and emergency procedures** : ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.
- Methods and material for containment and cleaning up** : Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.
- Notification Procedures** : Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
- Environmental precautions** : Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE:

- Precautions for safe handling** : Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.
- Conditions for safe storage, including any incompatibilities** : Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place.

8. EXPOSURE CONTROLS PERSONAL PROTECTION:**Control parameters**

- Appropriate engineering controls** : No data available

Individual protection measures, such as personal protective equipment

- General information** : An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

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Eye/face protection	:	Wear safety glasses with side shields (or goggles).
Hand protection	:	Chemical resistant gloves.
Other	:	Wear suitable protective clothing.
Respiratory protection	:	In case of inadequate ventilation use suitable respirator. Chemical Respirator with organic vapor cartridge.
Hygiene measures	:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	:	Colourless oily liquid.
Odor	:	weak
Solubility	:	Miscible in water.
Formula	:	C ₈ H ₁₀ O ₂
Molecular Weight	:	138.17 g/mol
Specific Gravity	:	1.107 - 1.108 g at 20°C
pH	:	7 at 10 g/l at 23 °C
% Volatiles by volume @ 21C (70F)	:	No data available
Boiling Point	:	244 - 246 °C
Melting Point	:	11 - 13 °C
Flash Point	:	126 °C
Vapor Density (Air=1)	:	4.77
Vapor Pressure (mm Hg)	:	0.02 @ 25°C
Evaporation Rate (BuAc=1)	:	No data available

10. STABILITY AND REACTIVITY:

Reactivity	:	Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.
Chemical stability	:	Material is stable under ambient conditions..
Possibility of hazardous reactions	:	Violent reactions possible with : Oxidizing agents, Acid anhydrides
Conditions to avoid	:	Strong heating.
Incompatible materials	:	No data available

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Hazardous decomposition products : In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION:**Information on toxicological effects****Acute toxicity (list all possible routes of exposure)**

Oral Product : LD 50 (Rat): 1.840 mg/kg

Dermal Product : LD 50 (Rat): 2.000 mg/kg

Inhalation Product : LD 50 (Rat): 1.000 mg/kg

Repeated dose toxicity Product : No data available.

Skin corrosion/irritation Product : Skin – Rabbit
Result: No skin irritation - 4 h

Serious eye damage/eye irritation Product : Eyes - Rabbit
Result: Causes serious eye damage. - 15 Days

Respiratory or skin sensitization Product : Maximization Test - Guinea pig
Result: negative

Carcinogenicity Product : No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans : No data available.

US. National Toxicology Program (NTP) Report on Carcinogens : No data available.

Germ cell mutagenicity

Test Type: Ames test
Test system: Escherichia coli/Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster lung cells
: **Metabolic activation:** with and without metabolic activation
Method: OECD Test Guideline 476
Result: Positive results were obtained in some in vitro tests.
Test Type: Mutagenicity (mammal cell test): chromosome aberration. Test system: Chinese hamster lung cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative

In vitro Product : No data available.

Reproductive toxicity Product : No data available.

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Specific target organ toxicity - single exposure Product : May cause respiratory irritation. - Respiratory Tract

Specific target organ toxicity - repeated exposure Product : No data available.

Aspiration hazard Product : No data available.

Other effects : None known.

12. ECOLOGICAL INFORMATION:**Ecotoxicity****Acute hazards to the aquatic environment**

Fish Product : Static test LC50 - Leuciscus idus (Golden orfe) - > 220 - < 460 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates : Static test EC50 - Daphnia magna (Water flea) - > 500 mg/l - 48 h

Toxicity to algae : Static test ErC50 - Desmodesmus subspicatus (green algae) - 625 mg/l - 72 h

Toxicity to bacteria : Static test EC50 - activated sludge - > 1.000 mg/l - 30 min

Chronic hazards to the aquatic environment

Fish Product : Flow-through test NOEC - Pimephales promelas (fathead minnow) - 24 mg/l - 34 d

Toxicity to daphnia and other aquatic invertebrates : Semi-static test NOEC - Daphnia magna (Water flea) - 9,43 mg/l - 21 d

Toxicity to Aquatic Plants Product: : No data available.

Persistence and degradability

Biodegradation Product : Aerobic - Exposure time 3 d
Result: 98 % - Readily biodegradable

COD ratio Product : 2.127 mg/g

Bioaccumulative potential

Bioconcentration factor (BCF) Product : No data available on bioaccumulation.

Partition coefficient n-octanol / water (log Kow) Product : No data available.

Mobility in soil : No data available.

Other adverse effects : No data available.

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13. DISPOSAL CONSIDERATION:

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.
Contaminated packaging : Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION:

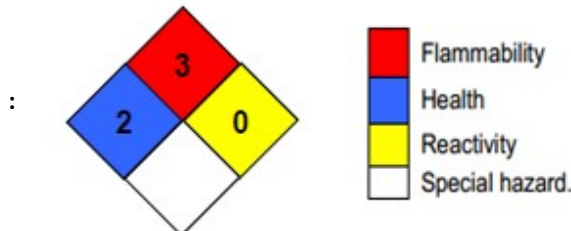
	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT		2-Phenoxyethanol		Not dangerous goods	
IMDG		2-Phenoxyethanol		Not dangerous goods	
IATA		2-Phenoxyethanol		Not dangerous goods	

15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
 Safety, health and environmental regulations/legislation specific for the substance or mixture
 No Data Available.

16. OTHER INFORMATION:

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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