

Material safety data sheet

According to EU Regulation 1907/2006 in the current version

PRESERVATIVE PE

1. Identification of the substance/mixture and company

Trade name: Preservative PE

I.N.C.I. Phenoxyethanol, Ethylhexylglycerin

CAS No.: 122-99-6, 70445-33-9 EC No.: 204-589-7, 408-080-2

REACH pre-registration No.: 01-2119488943-21, 01-0000015745-65

Supplier company identification: Elemental SRL, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania

Tel/Fax: +40259-436.755, www.ellemental.com

Emergency: RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de

Sănătate Publică București.

International emergency number: +49 180 2273-112

2. Hazards Identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Health Hazards

Acute toxicity (Oral) Category 4 - H302: Harmful if swallowed.

Serious Eye Damage/Eye Irritation Category 1 - H318: Causes serious eye damage.

2.2 Label Elements

Contains: Ethanol, 2-phenoxy-1,2-Propanediol, 3-[(2-ethylhexyl)oxy]-





Signal Words: Danger

Hazard Statement(s):

H302: Harmful if swallowed.

H318: Causes serious eye damage.

Precautionary Statements

Prevention:

P262: Do not get in eyes, on skin, or on clothing.

P264: Wash thoroughly after handling.

P280: Wear eye protection/face protection.

Response:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER/doctor.

P330: Rinse mouth.

2.3 Other hazards

None known.



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3. Declaration of ingredients

3.2 Mixtures

Chemical name Concentration CAS-No. EC No. REACH Registration No. M-Factor: Ethanol, 2- >=90 - <=100% 122-99-6 204-589-7 01-2119488943-21 No data available.

phenoxy-

1,2-Propanediol, >=10 - <20% 70445-33-9 408-080-2 01-0000015745-65 No data available.

3-[(2-

ethylhexyl)oxy]-

Classification

Chemical name Classification Notes

Ethanol, 2-phenoxy- Acute Tox.: 4: H302; Eye Irrit.: 2: H319; No data available.

1,2-Propanediol, Eye Dam.: 1: H318; Acute Tox.: 4: H332; No data available.

3-[(2-ethylhexyl)oxy]- Aquatic Chronic: 3: H412;

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

4. First aid measures

General:

Remove contaminated, soaked clothing immediately and dispose of safely.

4.1 Description of first aid measures

Inhalation:

Ensure supply of fresh air. In the event of symptoms seek medical advice.

Skin Contact:

In case of contact with skin wash off with soap and water. Consult a doctor in the event of permanent skin irritation.

Eye contact:

Immediately flush eye(s) with plenty of water. Seek medical advice immediately.

Ingestion:

Call for medical advice immediately; show the container or the label. Thoroughly clean the mouth with water Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed:

Serious eye irritation

4.3 Indication of any immediate medical attention and special treatment needed



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Hazards: No data available.
Treatment: Treat symptomatically.

5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media:

foam, carbon dioxide, dry powder, water spray.

Unsuitable extinguishing media:

Full water jet

5.2 Special hazards arising from the substance or mixture:

In the event of fire the following can be released: - carbon dioxide, carbon monoxide Under certain conditions of combustion traces of other toxic substances cannot be excluded

5.3 Advice for firefighters

Special fire fighting procedures:

No specific precautions.

Special protective equipment for fire-fighters:

Do not inhale explosion and/or combustion gases Self-contained breathing apparatus.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. High risk of slipping due to leakage/spillage of product Ventilate the area.

6.1.1 For non-emergency personnel:

No data available.

6.1.2 For emergency responders:

No data available.

6.2 Environmental Precautions:

Do not allow to enter drains or waterways Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up:

Take up with liquid-binding material (e.g. sand, universal binder, diatomaceous earth). Store used liquid binder closed in stable, labelled containers. Dispose of contaminated material as prescribed

6.4 Reference to other sections:

For further information on exposure monitoring and disposal see sections 8 and 13.

7. Handling and storage

7.1 Precautions for safe handling:



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No special measures necessary if stored and handled as prescribed. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities:

Keep away from oxidizing agents and strongly acid or alkaline materials. Keep containers tightly closed in a cool, well-ventilated place. Avoid sun rays, heat effect. Do not store < 5 °C Do not keep at temperatures above 30 °C.

7.3 Specific end use(s):

No further recommendations.

8. Exposure controls / personal protection

8.1 Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

DNEL-Values

Critical component	Туре	Route of Exposure	Route of Exposure Rema	
Ethanol, 2-phenoxy-	Workers	Inhalation	Long-term systemic effects; 8.07 mg/m3 ECHA	
	Workers	Inhalation	Long-term local effects; 8.07 mg/m3	ECHA
	Workers	Dermal	Long-term systemic effects; 34.72 mg/kg bodyweight/day	ECHA
	Consumers	Inhalation	Long-term systemic effects; 2.41 mg/m3	ECHA
	Consumers	Inhalation	Long-term local effects; 2.41 mg/m3 ECHA	
	Consumers	Dermal	Long-term systemic effects; 20.83 mg/kg bodyweight/day	ECHA
	Consumers	Oral	Long-term systemic effects; 17.43 mg/kg bodyweight/day	ECHA

PNEC-Values

Critical component	Environmental compartment	PNEC-Values	Remarks
Ethanol, 2-phenoxy-	Fresh water	0.943 mg/l	
	marine water	0.0943 mg/l	
	intermittent release	3.44 mg/l	
	Wastewater treatment plant	24.8 mg/l	
	freshwater sediment	7.2366 mg/kg dry weight	
	Marine sediments	0.72366 mg/kg dry weight	
	soil	1.26 mg/kg dry weight	



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8.2 Exposure controls

Appropriate Engineering Controls: No data available.

Individual protection measures, such as personal protective equipment

Eye/face protection:

Safety glasses with side-shields

Hand Protection:

Material: gloves made of nitril (NBR) Break-through time: > 480 min Glove thickness: 0.4 mm Material: Polyethylene. Break-through time: > 480 min Glove thickness: 0.1 mm

Material: protective gloves made of fluorinated rubber (FKM, e.g. Viton)

Break-through time: > 480 min Glove thickness: 0.7 mm

Skin and Body Protection: protective clothing

Respiratory Protection: in case of formation of vapours/aerosols: Short term: filter apparatus, combination filter A-P2

Hygiene measures:

Wash hands before breaks and immediately after handling the product. Remove soiled or soaked clothing immediately. Do not eat, drink or smoke when working.

Environmental Controls:

The environmental regulations on the control and monitoring of environmental exposures are to be observed.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: liquid

Form: liquid

Color: white to slight yellowish

Odor: Characteristic

Odor Threshold: not determined

pH: 6 - 7

Freezing point: > 285 °C Boiling Point: -80 °C Flash Point: 152 °C

Evaporation Rate: No data available. Flammability (solid, gas): not measured Flammability Limit - Upper (%): not measured Flammability Limit - Lower (%): not measured



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Vapor pressure: 0.26 Pa

Vapor density (air=1): not determined

Density: 0.952 - 0.958 g/cm3 Relative density: not determined

Solubility(ies)

Solubility in Water: 0.0112 mg/100 (25 °C) Solubility (other): No data available.

Partition coefficient (n-octanol/water): 2.53

Self Ignition Temperature: 250 °C

Decomposition Temperature: not determined

Kinematic viscosity: Not applicable Dynamic viscosity: 144 mPa.s

9.2 Other information

Bulk density: na

Explosive properties: Not applicable Oxidizing properties: Not applicable

Minimum ignition temperature: No data available.

Metal Corrosion: No data available.

10. Stability and reactivity

10.1 Reactivity:

see section "Possibility of hazardous reactions"

10.2 Chemical Stability:

The product is stable under normal conditions.

10.3 Possibility of hazardous reactions:

Exothermic reaction with: strong oxidants strong bases strong acids

10.4 Conditions to avoid:

Unknown

10.5 Incompatible Materials:

Unknown

10.6 Hazardous Decomposition Products:

Hazardous decomposition products: Carbon monoxide and carbon dioxide

11. Toxicological information

Information on likely routes of exposure

Inhalation:

Relevant route of exposure. Information on effects are given below.



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Skin Contact: Relevant route of exposure. Information on effects are given below.

Eye contact: Relevant route of exposure. Information on effects are given below.

Ingestion: If handled correctly, not a relevant route of exposure. Information on effects are given below.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: LD 50 (Rat): 1,840 mg/kg Components: Ethanol, 2-phenoxy-

LD 50 (Rat): 1,850 mg/kg

1,2-Propanediol, 3-[(2-ethylhexyl)oxy]-

LD 50 (Rat): > 2,000 mg/kg

Dermal

Product: LD 50 (Rabbit) > 2,000 mg/kg Components: Ethanol, 2-phenoxy-LD50 (Rabbit): 5,000 mg/kg

1,2-Propanediol, 3-[(2-ethylhexyl)oxy]-

LD 50 (Rat): > 2,000 mg/kg

Inhalation

Product: Aerosols

Aerosols LC 50 (Rat, 4 h): 2.83 - 3.22 mg/l

Dusts, mists and fumes

Dusts, mists and fumes Acute toxicity estimate> 5 mg/l (Calculation method)

Components:

Ethanol, 2-phenoxy- No data available.

1,2-Propanediol, 3-[(2-ethylhexyl)oxy]- Dusts, mists and fumes LC 50 (Rat, 4 h)3.07 mg/l

Repeated dose toxicity

Product: No data available.

Components:

Ethanol, 2-phenoxy- NOAEL (Rat, Oral): 1,000 mg/kg 1,2-Propanediol, 3-[(2-ethylhexyl)oxy]- No data available.

Skin Corrosion/Irritation: non-irritant

Product:

OECD 404 (Rabbit): non-irritant

Components: Ethanol, 2-phenoxy-

OECD 404 (Rabbit): non-irritant 1,2-Propanediol, 3-[(2-ethylhexyl)oxy]-

OECD 404 (Rabbit): slight irritant effect - does not require labelling



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Serious Eye Damage/Eye Irritation:

Risk of serious damage to eyes.

Product:

OECD 405 (Rabbit): Risk of serious damage to eyes.

Components:

Ethanol, 2-phenoxy-Irritating. OECD 405 (Rabbit):

1,2-Propanediol, 3-[(2-ethylhexyl)oxy]- Risk of serious damage to eyes. OECD 405 (Rabbit):

Respiratory or Skin Sensitization:

Product: No data available.

Components:

Ethanol, 2-phenoxy-, OECD 406 (Guinea Pig)non-sensitizing

1,2-Propanediol, 3-[(2-ethylhexyl)oxy]-, OECD 406 (Guinea Pig)non-sensitizing

Germ Cell Mutagenicity

In vitro

Product: No data available.

Components: Ethanol, 2-phenoxy-

No data available.

1,2-Propanediol, 3-[(2-ethylhexyl)oxy]-

No data available.

In vivo

Product: No data available.

Components:

Ethanol, 2-phenoxy-No data available.

1,2-Propanediol, 3-[(2-ethylhexyl)oxy]-

No data available

Carcinogenicity

Product: No data available.

Components:

Ethanol, 2-phenoxy-

No data available.

1,2-Propanediol, 3-[(2-ethylhexyl)oxy]-

No data available.

Reproductive toxicity

Product: No data available.

Components:

Ethanol, 2-phenoxy-

No data available.



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1,2-Propanediol, 3-[(2-ethylhexyl)oxy]-No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:

Ethanol, 2-phenoxy-No data available.

1,2-Propanediol, 3-[(2-ethylhexyl)oxy]-

No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

Ethanol, 2-phenoxy-No data available.

1,2-Propanediol, 3-[(2-ethylhexyl)oxy]-

No data available.

Aspiration Hazard

Product: No evidence of aspiration toxicity

Components:

Ethanol, 2-phenoxy-

No data available.

1,2-Propanediol, 3-[(2-ethylhexyl)oxy]-

No data available.

Other adverse effects:

Harmful if swallowed. Causes serious eye irritation.

12. Ecological information

12.1 Toxicity

Acute toxicity

Fish Product: LC 50 (Leuciscus idus (Golden orfe), 96 h): 220 - 460 mg/l

Components

Ethanol, 2-phenoxy-

LC 50 (Pimephales promelas (fathead minnow), 96 h): 460 mg/l

1,2-Propanediol, 3-[(2-ethylhexyl)oxy]-

LC 50 (Danio rerio (zebra fish), 96 h): 60.2 mg/l

Aquatic Invertebrates

Product: No data available.

Components

Ethanol, 2-phenoxy-

EC 50 (Daphnia magna (Water flea), 48 h): > 500 mg/l



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1,2-Propanediol, 3-[(2-ethylhexyl)oxy]-

EC 50 (Daphnia magna (Water flea), 24 h): 89.6 mg/l EC 50 (Daphnia magna (Water flea), 48 h): 78.3 mg/l

Toxicity to Aquatic Plants Product: No data available.

Components

Ethanol, 2-phenoxy-

EC 50 (Desmodesmus subspicatus (green algae), 72 h): > 500 mg/l

1,2-Propanediol, 3-[(2-ethylhexyl)oxy]-

EC 50 (Scenedesmus subspicatus, 72 h): 48.3 mg/l

Toxicity to microorganisms

Product: No data available.

Components

Ethanol, 2-phenoxy-

No data available.

1,2-Propanediol, 3-[(2-ethylhexyl)oxy]-

EC 50 (Bacteria, 3 h): 560 mg/l (OECD 209)

Chronic Toxicity

Fish

Product: No data available.

Components

Ethanol, 2-phenoxy-

No data available.

1,2-Propanediol, 3-[(2-ethylhexyl)oxy]-

No data available.

Aquatic Invertebrates

Product: No data available.

Components

Ethanol, 2-phenoxy-

No data available.

1,2-Propanediol, 3-[(2-ethylhexyl)oxy]-

No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components

Ethanol, 2-phenoxy-

No data available.

1,2-Propanediol, 3-[(2-ethylhexyl)oxy]-

No data available.

12.2 Persistence and Degradability

Biodegradation



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Product: (15 d, OECD TG 301 A): 90 - 100 % Readily biodegradable

BOD/COD Ratio

Product: No data available.

Components

Ethanol, 2-phenoxy-No data available.

1,2-Propanediol, 3-[(2-ethylhexyl)oxy]-

No data available.

12.3 Bioaccumulative potential

Product: No data available.

12.4 Mobility in soil:

No data available.

12.5 Results of PBT and vPvB assessment:

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.

Ethanol, 2-phenoxy- Non-classified vPvB substance Non-classified PBT substance

1,2-Propanediol, 3-[(2-ethylhexyl)oxy]- Non-classified vPvB substance Non-classified PBT substance

12.6 Other adverse effects:

The product is classified as slightly hazardous to waters (according to the German Regulation on the Classification of Substances Hazardous to Waters (WwSV). Do not allow to enter soil, waterways or waste water canal.

13. Disposal considerations

13.1 Waste treatment methods

General information: No data available.

Disposal methods:

Must be brought to an adequate waste treatment facility, in conformity with applicable waste disposal regulations.

Contaminated Packaging:

If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

14. Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good



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14.3 Transport hazard class(es) Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards
Not regulated as a dangerous good

14.6 Special precautions for user Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable for product as supplied.

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I: Not applicable

National Regulations

15.2 Chemical safety

No chemical safety assessment was carried out for this product.

16. Additional information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP] Classification according to Regulation (EC) No 1272/2008 as amended.

Acute toxicity, Category 4 Oral

On basis of test data

Serious Eye Damage/Eye Irritation, Category 1

Calculation method

Wording of the H-statements in section 2 and 3

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

Training information:

Comply with national laws regulating employee instruction.

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association



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ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50 EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon

Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.