

PHENOXYETHANOL EHG

1. IDENTIFICATION

Product Name: Phenoxyethanol EHG
INCI Name: Phenoxyethanol (and) Ethylhexyl Glycerine
CAS#: 23B025

Product Form: Powder
Product Use: Cosmetic use

Distributor: Avena Lab, Farmadria d.o.o.
Address: Heroja Pinkija 44, Vršac
Telephone: +381(0)695565028 or +381(0)695565029
Website: www.avenalab.com
Email: info@avenalab.com

2. HAZARD(S) IDENTIFICATION

GHS Classification: Acute Oral Toxicity – Category 4
Eye Damage – Category 1
STOT single exposure -Category 3
GHS Signal Word: DANGER

GHS Hazard Pictograms:



GHS Hazard Statements:

GHS Precautionary Statements:

H302: Harmful if swallowed.
H318: Causes serious eye irritation.
H335: May cause respiratory irritation
P261: Avoid breathing dust, fume, gas, mist, vapors, spray
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink, or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye/face protection.
P301 + P312: IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present, and easy to do. Continue rinsing.
P337 + P313: If eye irritation persists: Get medical advice/attention.
P330: Rinse Mouth
P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

MATERIAL SAFETY DATA SHEET

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Potential Health Hazards:

Eyes: Not expected to be irritant.
Inhalation: Not expected to be irritant.
Skin: Not expected to be irritant.
Ingestion: Not expected to be irritant.

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Acute Toxicity-Category 4
Eye Irritation-Category-2A

**Classification according to Directive 1999/45/EC [DPD]:
NFPA Ratings (704):**

Harmful, Xn; R22
Irritant; Xi; R36
Health N/A N/A
Flammability N/A N/A
Reactivity N/A N/A
Specific Hazard N/A N/A

3. COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Component</u> | <u>CAS No.</u> | <u>Weight %</u> | <u>Molecular Weight</u> |
|--------------------|----------------|-----------------|-------------------------|
| Phenoxyethanol | 122-99-6 | N/A | N/A |
| Ethylhexylglycerin | 70445-33-9 | N/A | N/A |

4. FIRST-AID MEASURES

Eyes:

Causes eye irritation. Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist. Eye wash fountain should be located in immediate work area.

Skin:

Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Obtain medical attention without delay, if necessary. Wash clothing before reuse. Safety shower should be located in immediate work area.

Inhalation:

No specific treatment is necessary since material is not likely to be hazardous by inhalation. If exposed to excessive levels of vapors/aerosol, remove to fresh air and get medical attention if cough or other symptoms develop.

Ingestion:

Harmful if ingested. Rinse mouth thoroughly with water. If swallowed, seek medical attention. Do Not Induce Vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

May be combustible at high temperature. Use appropriate media (foam, carbon dioxide, dry chemical, water fog or fine spray) for adjacent fire. Do not use direct water stream.

Special protective equipment & precautions for firefighters:

Wear positive-pressure self-contained breathing apparatus and protective fire-fighting clothing (includes fire-fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

Flash Points:

126°C @ 1013 hPa

Specific hazards arising from the chemical:

During a fire, smoke may contain the original material in addition to combustion products of carrying composition, which may be toxic and/or irritating. Combustion products may include and are not limited to: carbon monoxide, carbon dioxide. See also Stability and Reactivity section.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures:

Use personal protective equipment. Wash hands after exposure with the substance. Restrict unnecessary and unprotected personnel from entering the area. See section 8 for recommendations on the use of personal protective equipment.

Environmental precautions:

Prevent from entering into soil, ditches, sewers, waterways, and/or ground water. Contain contaminated water/fire-fighting water. Do not discharge into drain/surface water/ground water. Notify environmental authorities in case of large leaks.

Methods and material for containment and cleaning up:

Small spills: Absorb with suitable absorbent material such as sand or vermiculite. Collect in suitable and properly labeled container.

Large spills: contain spilled material if possible. Pump into suitable and properly labeled containers. Dispose of absorbed material/collected material in accordance with regulations.

7. HANDLING AND STORAGE

Precautions for safe handling:

Follow general occupational hygiene such as wash hands before and after use. Do not eat, drink, or smoke in work areas. Remove contaminated clothing. Avoid spill. Follow safe procedures for loading and unloading of products. See section 8 for recommendations on the use of personal protective equipment.

Conditions for safe storage, incl. any incompatibilities:

Store in clean, dry place at 20-40°C away from direct heat and sunlight. Keep container tightly closed after use. Product solidifies, if stored below 14°C for prolonged time. It is recommended to heat ISO containers with hot water or steam with 1.0-1.5 kg/cm² pressure through jacket to bring the temperature of product to 30-40°C. If the product becomes frozen in IBC/HMHDPE carboys then keep the same in hot room of 30-40°C (avoid direct heating). In original sealed condition, when stored as suggested, shelf life of the product is at least 2.5 years. Stacking should be maximum 1+1 carboys. Keep away from heat and incompatible materials (see section 10 for incompatibilities).

Suitable packing materials: HMHDPE carboys, stainless steel, carbon steel, ISO container, IBC

Unsuitable packing materials: Mild steel

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Component | Exposure Limits | Basis | Entity |
|------------------|---|-------|------------------|
| 2-Phenoxyethanol | 20ppm / 110 mg/m ³ | TLV | Austria |
| | 20ppm / 110 mg/m ³ | STEL | Austria |
| | 25ppm / 141 mg/m ³ | TLV | Canada - Ontario |
| | 20ppm / 110 mg/m ³ | TLV | Finland |
| | 50ppm / 290 mg/m ³ | STEL | Finland |
| | 20ppm ⁽¹⁾ / 110 mg/m ³ ⁽¹⁾ | TLV | Germany (AGS) |
| | 40ppm ⁽¹⁾⁽²⁾ / 220 mg/m ³ ⁽¹⁾⁽²⁾ | STEL | Germany (AGS) |
| | 20ppm ⁽¹⁾ / 110 mg/m ³ ⁽¹⁾ | TLV | Germany (DFG) |
| | 40ppm ⁽¹⁾⁽²⁾ / 220 mg/m ³ ⁽¹⁾⁽²⁾ | STEL | Germany (DFG) |
| | 230 220 mg/m ³ | TLV | Poland |
| | 20ppm / 110 mg/m ³ | TLV | Switzerland |
| | 40ppm / 220 mg/m ³ | STEL | Switzerland |

(1) Inhalable aerosol and vapor

(2) 15 minutes reference period

TLV: Threshold Limit Value over 8 hours of work.

STEL: Short-Term Exposure Limit during x minutes.

Personal Protection:

Eyes: Safety goggles should be worn.

Inhalation: Required when vapors/aerosols are generated.

Body: Apron, shoes. Oil resistant gloves, heat-resistant rubber gloves.

Other: Use good personal hygiene practices, washing exposed areas of the skin several times daily. Launder contaminated clothing before reuse. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Low viscous liquid
Odor: Faint aromatic
Odor Threshold: No data available
Color: Clear, colorless
Molecular Weight: No data available
pH: 5.5 - 7.0
Boiling Point: 244.3°C
Melting Point: No data available
Freezing Point: 14°C
Relative Density: 1.105 – 1.110 @ 20°C
Partition Coefficient: n-octanol/water: Log K_{ow}: 1.2 @ 23°C
Viscosity (Brookfield, Spindle) <100 cps @ 20°C

Oxidizing Properties: Not Determined
Vapor Pressure: 0.01 mm Hg @ 20 °C
Vapor Density: No data available
Evaporation Rate: No data available
Flammability: Non-flammable
Explosive Properties: No data available
Upper/lower Explosive Limit: Not applicable
Flash Point: 126°C @ 1013 hPa
Specific Gravity @ 25°C: No data available
Solubility in Water: No data available
Auto-Ignition Temperature: 475°C @ 999 hPa
Decomposition Temperature: >350°C

10. STABILITY AND REACTIVITY

| | |
|--|--|
| Reactivity: | No hazardous reaction, if stored and handled as prescribed. |
| Chemical Stability: | Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. |
| Hazardous Polymerization: | Not anticipated when used or handled as prescribed. |
| Conditions to Avoid: | Sunlight, heat, flame, and other sources of ignition. |
| Incompatible Materials: | Strong acids, strong bases, and strong oxidizing agents. |
| Hazardous Decomposition Products: | Will not form, if stored and handled as prescribed. |

11. TOXICOLOGICAL INFORMATION

| | |
|---|--|
| Acute Toxicity: | LD50: 1840 mg/kg bw (equivalent or similar to OECD Guideline 401) |
| Skin: | LD50: >2214 mg/kg bw |
| Eyes: | Irritating to eyes (OECD Guideline 405) |
| Respiratory: | LD50: >1000 mg/m ³ air (OECD Guideline 412) |
| Ingestion: | No data available |
| Carcinogenicity: | Not expected |
| Teratogenicity: | No data available |
| Germ Cell Mutagenicity: | Negative (OECD Guideline 471) |
| Embryotoxicity: | Negative (OECD Guideline 474) |
| Specific Target Organ Toxicity: | Not classified. |
| Reproductive Toxicity: | Not classified. |
| | Fertility: Oral NOAEL: 375 mg/kg bw/day |
| | Developmental Toxicity: Oral NOAEL: 1000 mg/kg bw/day (OECD Guideline 414) |
| | Dermal NOAEL: 600 mg/kg bw/day (equivalent or similar to OECD Guideline 414) |
| Respiratory/Skin Sensitization: | No data available |
| Corrosivity: | No data available |
| Sensitization: | No data available |
| Irritation: | No data available |
| Repeated Dose Toxicity: | Oral NOAEL: 700 mg/kg bw/day (OECD Guideline 408) |
| Likely Routes of Exposure: | Dermal NOAEL: 500 mg/kg bw/day (Equivalent or similar to OECD Guideline 411) |
| | Inhalation NOAEL: 48.2 mg/m ³ (OECD Guideline 412) |
| | Exposure by dermal and inhalation (limited due to low vapor pressure of substance) |
| Symptoms: | Eye contact: irritation, redness |
| Delayed/Immediate Effects & Chronic Effects from Short/Long Term Exposure: | Ingestion: no specific data |
| | Short term exposure: local irritation on mucous membranes |
| | Long term exposure: irritation in upper respiratory tract due to inhalation exposure |

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Vertebrate:

Short term LC50: 344 mg/L (96h) (Pimephales promelas) (ASTM Guideline)

Long term EC10/LC10 or NOEX: 23 mg/L (34d) (Pimephales promelas) (OECD Guideline 210)

Aquatic Invertebrate:

Short term LC50: 488 mg/L (48h) (Daphnia magna) (Equivalent or similar to EPA OPP 72-2)

Long term EC10/LC10 or NOEC: 9.43 mg/L (21d) (Daphnia magna) (OECD Guideline 211)

Terrestrial:

EC50: 443 mg/L (72h) (Desmodesmus subspicatus) (Based on: Biomass)

EC10/LC10 or NOEC: 159 mg/L (72h) (Desmodesmus subspicatus) (Based on: Biomass) (EU Method)

Persistence and Degradability:

Readily biodegradable; >90% after 15 day (DOC removal) OECD Test Guideline 301A (old version)
 (Readily Biodegradability: Modified AFNOR Test)

Bioaccumulative Potential:

BCF Value: 0.35, no potential for bioaccumulation is expected.
 (Method: Calculation – Estimation software: EPIWIN program BCF (v2.15))

Mobility in Soil:

Adsorption coefficient KOC: 40.74 @ 20°C, a low adsorption potential on solid material is expected (OECD Guideline 121)

PBT and vPvB Assessment:

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other Adverse Effects:

No data available

13. DISPOSAL CONSIDERATIONS

Waste Residues:

Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

Product Containers:

Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods

14. TRANSPORT INFORMATION

DOT (Dept. of Transportation, USA):

Not regulated as a dangerous good

TDG (Transportation of Dangerous Goods, Canada):

No data available

IMDG (International Maritime Dangerous Goods):

Not regulated as a dangerous good

IATA (International Air Transport Association):

Not regulated as a dangerous good

ICAO (International Civil Aviation Organization):

Not regulated as a dangerous good

15. REGULATORY INFORMATION

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|----------------------------------|--|
| TSCA Inventory Status: | Listed on January 2014 TSCA Inventory. |
| DSCL (EEC): | Listed on the DSL. |
| WHMIS (Canada): | No data available |
| EU EINECS/ELINCS/NLP: | Listed on the EINECS Inventory. |
| China IECSC: | Listed on the IECSC. |
| China IECIC (06.30.2014): | No data available |
| Australia AICS: | Listed on AICS. |
| Korea ECL: | Listed on the ECL. |
| Japan ENCS: | Listed on ENCS. |
| New Zealand NZIoC: | Listed on AZIoC. |

16. OTHER INFORMATION

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| Revision Date: | 22-May-2023 |
| Compliance: | This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 |
| Disclaimer: | This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use. |