

Section 1. Product and Company Identification

**Product Name** Polyglyceryl-2 Dipolyhydroxystearate  
**CAS Number** 144470-58-6

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Section 2. Hazards Identification

**Classification of the substance or mixture**

Not classified as a hazardous substance or mixture according to GHS criteria for this product.

**GHS Label Elements**

**Pictograms:** N/A

**Signal word:** N/A

**Hazard and precautionary statements**

None

**Hazards not otherwise classified:** No specific dangers known, if the regulations/notes for storage and handling are considered.

**According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

**Emergency overview:** Low hazard for usual industrial or commercial handling.

Section 3. Composition / Information on Ingredients

**Common Name** Polyglyceryl-2 Dipolyhydroxystearate  
**Synonym(s)** Octadecanoic acid, 12-hydroxy-, homopolymer, ester with 1,2,3-propanetriol homopolymer  
**CAS Number** 144470-58-6

COMPONENT	CAS NUMBER	CONCENTRATION
Polyglyceryl-2 Dipolyhydroxystearate	144470-58-6	100.0%

Section 4. First Aid Measures

**Description of first-aid measures**

**Inhalation:** Fresh air. If adverse health effects develop seek medical attention.

**Skin Contact:** After contact with skin, wash immediately with plenty of water and soap. If adverse health effects develop seek medical attention.

**Eye Contact:** Wash affected eyes for at least 15 minutes under running water with eyelids held open. If adverse health effects develop seek medical attention.

**Ingestion:** Rinse mouth immediately with water. Do not induce vomiting. If vomiting occurs naturally, keep airway clear. Seek medical attention.

**Most important symptoms and effects, both acute and delayed**

Symptoms: No significant symptoms are expected due to the non-classification of the product.

Hazards: No hazard is expected under intended use and appropriate handling.

**Indication of any immediate medical attention and special treatment needed**

**Note to physician:** Treat symptomatically

Section 5. Firefighting Measures

**Extinguishing media**

**Suitable extinguishing media:** Water spray, carbon dioxide, dry powder, foam

**Special hazards arising from the substance or mixture**

**Hazards during firefighting:** Harmful vapors

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

**Advice for firefighters**

**Protective equipment for firefighting:** Wear a self-contained breathing apparatus.

**Further information:** Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Section 6. Accidental Release Measures

**Personal precautions, protective equipment, and emergency procedures:** Use personal protective clothing.

**Environmental precautions:** Do not discharge into drains/surface waters/groundwater.

**Methods and material for containment and cleaning up:** For small amounts: Pick up with suitable absorbent material. For large amounts: Dike spillage. Pump off product. Dispose of absorbed material in accordance with regulations

Section 7. Handling and Storage

**Precautions for safe handling:** Handle in accordance with good industrial hygiene and safety practice. Protection against fire and explosion: Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.

**Conditions for safe storage, including any incompatibilities:** Suitable materials for containers: glass, High density polyethylene (HDPE). Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.  
Below temperature limit the product properties will change. The property change is reversible by stirring and heating.

**Storage stability**

**Storage temperature:**  $\leq 30^{\circ}\text{C}$

Protect from temperatures below:  $15^{\circ}\text{C}$

Characteristics of the product are reversibly changed when falling below the limit temperature.

Protect from temperatures above:  $35^{\circ}\text{C}$

Properties of the product change irreversibly on exceeding the limit temperature.

Section 8. Exposure Controls / Personal Protection
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**Advice on system design:** No special precautions necessary.

**Personal protective equipment**

**Respiratory protection:** Not applicable with adequate ventilation. Wear a NIOSH-certified (or equivalent) respirator as necessary. Follow manufacturer's recommendations.

**Hand protection:** Plastic gloves, Rubber gloves

**Eye protection:** Safety glasses with side-shields (frame goggles) (e.g. EN166)

**Body protection:** Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

**General safety and hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. No eating, drinking, smoking, or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

Section 9. Physical and Chemical Properties
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**Form:** Liquid, viscous

**Odor:** Fatty-like

**Odor Threshold:** Not applicable

**Color:** Yellow

**pH Value:** Not applicable

**Melting Point:** Not determined

**Boiling Point:** Not determined

**Flash Point:**  $292.0^{\circ}\text{C}$  (DIN ISO 2592)

**Flammability:** Not flammable

**Flammability of Aerosol Products:** Not applicable (The product does not form flammable aerosols)

**Lower explosion limit:** For liquids not relevant for classification and labelling.

**Upper explosion limit:** For liquids not relevant for classification and labelling.

**Auto-ignition:** Not determined  
**Vapor pressure:** Not determined  
**Density:** 0.9 – 1.1 g/cm<sup>3</sup> (20°C)  
**Vapor Density:** Not applicable  
**Partitioning coefficient (n-octanol/water):** log Pow: Not determined  
**Self-ignition temperature:** Not applicable  
**Thermal decomposition:** No decomposition if stored and handled as prescribed/indicated.  
**Viscosity, dynamic:** Not determined  
**Viscosity, kinematic:** Not determined  
**Solubility in water:** Insoluble  
**Solubility (qualitative):** Insoluble in distilled water,  
**Evaporation rate:** Value can be approximated from Henry's Law Constant or vapor pressure.  
**Other Information:** If necessary, information on other physical and chemical parameters is indicated in this section.

#### Section 10. Stability and Reactivity

##### Reactivity

**Oxidizing properties:** Not fire-propagating  
**Chemical stability:** The product is stable if stored and handled as prescribed/indicated.  
**Possibility of hazardous reactions:** No hazardous reactions when stored and handled according to instructions.  
**Conditions to avoid:** See MSDS section 7 - Handling and storage.  
**Incompatible materials:** No substances known that should be avoided.

##### Decomposition products

**Hazardous decomposition products:** No hazardous decomposition products if stored and handled as prescribed/indicated.  
**Thermal decomposition:** No decomposition if stored and handled as prescribed/indicated.

#### Section 11. Toxicological Information

**Primary routes of exposure:** Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

**Primary routes of entry:** Dermal contact.

##### Acute Toxicity/Effects

**Assessment of acute toxicity:** Not considered to be toxic according to the criteria of the OSHA Hazard Communication Standard. May be harmful if swallowed in large quantities. No data available. No adverse health effects are known.

### Oral

**Type of value:** LD50

**Species:** Rat

**Value:** > 5,000 mg/kg

### Assessment other acute effects

**Assessment of STOT single:** Based on available Data, the classification criteria are not met.

### Irritation/Corrosion

**Assessment of irritating effects:** Not irritating to the skin. Not irritating to the eyes.

### Skin

**Species:** Rabbit

**Result:** Slightly irritating.

**Method:** OECD Guideline 404

### Eye

**Species:** Rabbit

**Result:** Slightly irritating.

**Method:** OECD Guideline 405

### Sensitization

**Assessment of Sensitization:** There is no evidence of a skin-sensitizing potential.

**Aspiration Hazard:** No aspiration hazard expected.

### Chronic Toxicity/Effects

#### Repeated Dose Toxicity

**Assessment of Repeated Dose Toxicity:** The information available on the product provides no indication of toxicity on target organs after repeated exposure.

#### Genetic Toxicity

**Assessment of Mutagenicity:** The chemical structure does not suggest a specific alert for such an effect.

**Genetic toxicity in vitro:** OECD Guideline 471 Ames-test Salmonella typhimurium: negative

#### Carcinogenicity

**Assessment of Carcinogenicity:** The chemical structure does not suggest a specific alert for such an effect.

#### Reproductive Toxicity

**Assessment of Reproduction Toxicity:** The chemical structure does not suggest a specific alert for such an effect.

### Teratogenicity

**Assessment of Teratogenicity:** No data was available concerning toxicity to development.

**Symptoms of Exposure:** No significant symptoms are expected due to the non-classification of the product.

## Section 12. Ecological Information

### Toxicity

#### Toxicity to fish

LC50 > 100 mg/l, Brachydanio rerio (DIN EN ISO 7346-2)

#### Microorganisms/Effect on activated sludge

Toxicity to microorganisms

OECD Guideline 209 bacterium/EC0: > 100 mg/l

**Persistence and degradability:** Readily biodegradable (according to OECD criteria).

**Bioaccumulative potential:** No data available.

**Mobility in soil:** Not applicable

## Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

## Section 14. Transport Information

### Land transport

**USDOT:** Not classified as a dangerous good under transport regulations

### Sea transport

**IMDG:** Not classified as a dangerous good under transport regulations

### Air transport

**IATA/ICAO:** Not classified as a dangerous good under transport regulations

## Section 15. Regulatory Information

### Federal Regulations

#### Registration status:

Chemical TSCA, US released/listed

Cosmetic TSCA, US released/exempt

**EPCRA 311/312 (Hazard categories):** Not hazardous

**NFPA Rating**

**Health:** 1

**Flammability:** 1

**Reactivity:** 0

**HMIS III Rating**

**Health:** 1

**Flammability:** 1

**Reactivity:** 0

Section 16. Other Information
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**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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