

Safety Data Sheet according to Reg. (EC) 1907/2006

Product name: Glycerol
Updated: 31. August 2023
Version: f

Date of issue: 20. July 2016
Previous version: e

Section 1: Identification of the substance and of the company

1.1 Product identifier:

Glycerol 85% vegetable Ph. Eur. / Product-No. 601005
Glycerol 99% vegetable Ph. Eur. / Product-No. 602005
Glycerol 99% vegetable organic DE-ÖKO-001 100 % soybean oil based / Product-No. 602105

1.2 Relevant identified uses of the substance and uses advised against

Sector of use

Food additive, Cosmetic, Pharma

1.3 Supplier	Street	City	Country
GUSTAV HEESS GmbH	Mollenbachstrasse 29	71229 Leonberg	Deutschland

Telephone	Telefax
+49 (0)7152 2007-0	+49 (0)7152 2007-100

E-mail address of person responsible for this SDS: E-Mail: gm@heessoils.com

1.4 Emergency telephone number Mainz
+49(0) 6131 / 19 24 0

Section 2: Hazards identification

2.1 Classification of the substance

REACH Status: Exempted from compulsory Regulation according to Annex II No. 9 of Commission Regulation (EC) No. 987/2008 amending Regulation (EC) No 1907/2006 of REACH as regards Annexes IV and V.

Classification according to Regulation (EC) 1272/2008: Not classified.

Classification according to Directive 67/548/EWG: Not classified.

2.2 Label elements

Signal word: No signal word.

Hazard statements: No known significant effects or critical hazards.

2.3 Other hazards: No.

Section 3: Composition

3.1 Substance

Glycerol (chemical name:1,2,3-propane-triol) Water (H₂O)

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CAS-No.: 56-81-5
EINECS-No.: 200-289-5
INCI-Name: Glycerin

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Section 4: First aid measures

4.1 Description of first aid measures

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Inhalation: Fresh air. Get medical attention if symptoms occur.

Skin contact: Flush contaminated skin with plenty of water, wash with soap and rise thoroughly. Remove contaminated clothing and shoes.

Eye contact: Immediately flush eyes with plenty of water. Check for and remove any contact lenses. Get medical attention if irritation occurs.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Ingestion: No known significant effects or critical hazards.
Inhalation: No known significant effects or critical hazards.
Skin contact: No known significant effects or critical hazards.
Eye contact: No known significant effects or critical hazards.

Over-exposure signs

Ingestion: No specific data.
Inhalation: No specific data.
Skin contact: No specific data.
Eye contact: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: No specific data.
Specific treatment: No specific treatment.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Foam, dry chemical powder, carbon dioxide.
Unsuitable extinguishing media: Water with full jet.

5.2 Special hazards arising from the substance

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At elevated temperatures there is a risk of exothermic polymerisation (> 200°C). At temperature > 280°C, acrolein may be formed. Avoid contact with oxidising agents. Combustion products: smoke, CO, CO₂.

5.3 Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode. Clothing for fire-fighters conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

The usual precautions for handling chemicals should be observed. Do not touch or walk through split material. Put on appropriate personal protective equipment.

6.2 Environmental precautions: Avoid dispersal of split material and runoff and contact with soil, waterways, drains and sewers.

6.3 Methods and materials for containment and cleaning up

Small spill: Stop leak if without risk. Move container from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move container from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillage into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via licensed waste disposal contractor.

Section 7: Handling and storage

7.1 Precautions for safe handling

Advice on general occupational hygiene

The usual precautions for handling chemicals should be observed. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage

Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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Section 8: Exposure controls/personal protection

8.1 Control parameters

Not applicable.

8.2 Exposure controls

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.
Appropriate techniques should be used to remove potentially contaminated clothing.

Eye protection: safety eyewear.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. >8 hours (breakthrough time): neoprene, nitrile, Viton®.

Skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: organic vapour filter.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: liquid
Colour: colourless
Odour: odourless

	<u>value / area</u>	<u>Unit</u>
	85%	99%
Melting point/freezing point:	ca. -10	ca. 18 °C

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Boiling point:		ca. 130	ca. 290	°C
Flash point:	open cup	ca. 190	> 100	°C
Ignition – point:		ca. 400	ca. 400	°C
Explosive properties:		unknown		
Danger of Explosion:		product does not present an explosion hazard		
Vapour pressure:	at 20 °C	ca. 8	< 0,001	hPa
Density:	at 20 °C	ca. 1,227	ca. 1,26	g/cm ³
Viscosity:	at 20°C	ca. 150	ca. 1400	mPas
Solubility in water:	soluble			

9.2 Other information

No additional information.

Section 10: Stability and reactivity

10.1 Reactivity: No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability: over 200°C ⇒ thermal destruction (polymerisation, decomposition)

10.3 Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid: temperatures over 200°C → thermal destruction

10.5 Incompatible materials: see section 7. Avoid contact with oxidising agents.

10.6. Hazardous decomposition products: smoke and irritating vapours when heated to decomposition. At very high temperatures acrolein may be formed.

Section 11: Toxicological information

11.1 Information on toxicological effects

Oral LD50 > 12600 mg/kg (rat)
Dermal LD50 > 18700 mg/kg (rabbit)

Conclusion: Not available.
Irritation/Corrosion: On skin: not / mildly irritating
Sensitization: Not available.
Carcinogenicity: No further relevant information available.

Specific target organ toxicity (single exposure): Not available.
Specific target organ toxicity (repeated exposure): Not available.

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Not classified as hazardous conform EEC Dangerous Substance Directive and Dangerous Preparation Directives. If the product is used properly it will not cause any injuries to health.

11.2 Information on other hazards

No additional data available.

Section 12: Ecological information

12.1 Toxicity

fish: 24h-LC₅₀ > 5000 mg/l
algae: 7d-IC₅ > 10000 mg/l
bacteria: 16h-EC₅ > 10000 mg/l (Lit., pure substance)

12.2 Persistence and degradability

Product is biodegradable.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

PBT: No.

vPvB: No.

12.6 Endocrine disrupting properties

No additional data available.

12.7 Other adverse effects:

No known significant effects or critical hazards.

Section 13: Disposal considerations

13.1 Waste treatment methods

Product:

Methods of disposal:

Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Packaging:

The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

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EU-disposal code: 13 08 99 oil waste. Classification of waste is in end user's individual authority.

Section 14: Transport information

No hazardous goods according UN, IMO, ADR/RID und IATA/ICAO.

Section 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance

Other EU regulations
National regulation

REACH Status: Exempted from compulsory Regulation according to Annex II No. 9 of Commission Regulation (EC) No. 987/2008 amending Regulation (EC) No 1907/2006 of REACH as regards Annexes IV and V.

Not classified as dangerous according to CLP Regulation (EC) No. 1272/2008.
Not classified as dangerous according to Directive 67/548/EC or Directive 1999/45/EC.

Wassergefährdungsklasse (Germany): WGK 1, schwach wassergefährdend im Sinne des § 19g Abs. 5 WHG. (Einstufung nach VwVwS vom 17. Mai 1999, Nummer 2.1.1, in Verbindung mit Anhang 2)

15.2 Chemical Safety Assessment: complete.

Section 16: Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.