

Trade name: Glycerolum 99.5%

Substance number: 073900

Version: 5 / CH

Date revised: 17.05.2022

Replaces Version: 4 / CH

Print date: 17.05.22

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Glycerolum 99.5%

Item No. 07390000

Substance / product identification

CAS-No. 56-81-5

EINECS-No. 200-289-5

INCI Glycerin

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation

Chemical for synthesis, Cosmetics, pharmacy, Food

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible

for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Voluntary product information following the Safety Data Sheet format

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

The product does not require a hazard warning label in accordance with Regulation (EC) No 1272/2008.

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients ***

3.1. Substances

Molecular weight

Value 92.09 g/mol

Further ingredients ***

Glycerol

CAS No. 56-81-5

EINECS no. 200-289-5

Concentration >= 95 %

Advice: [4]

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Note

[4] Voluntary information

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Adhere to personal protective measures when giving first aid. Take medical treatment.

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

Wash off immediately with soap and water and rinse well. Remove contaminated clothing. Consult a doctor if skin irritation persists.

After eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

After ingestion

Do not induce vomiting. Take medical treatment. If swallowed, rinse mouth with water (only if the person is conscious).

4.3. Indication of any immediate medical attention and special treatment needed**Hints for the physician / treatment**

Treat symptomatically

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, Dry powder, water jet. Extinguish greater fire with water spray or alcohol-resistant foam. Extinguishing measures to suit surroundings

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixtureIn case of fires, hazardous combustion gases are formed; Carbon monoxide (CO); Carbon dioxide (CO₂)**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus. Wear full protective suit.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

High risk of slipping due to leakage/spillage of product. Keep away sources of ignition. Wear protective equipment. Keep away unprotected persons.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. In case the product spills into sewage waters, immediately inform the authorities.

6.3. Methods and material for containment and cleaning up

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Take up with absorbent material (eg sand, kieselguhr). Take up mechanically and collect in suitable container for disposal.

6.4. Reference to other sections

Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Keep away sources of ignition. Smoking, eating and drinking should be prohibited in application area.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

Value	5	40	°C
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Requirements for storage rooms and vessels

Suitable materials: plastic materials. Use steel containers. Use aluminium containers.

Hints on storage assembly

Do not store with oxidizing agents. Peroxides, Do not store with strong alkalies.

Storage classes

Storage class according to TRGS 510	10	Flammable liquids
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Further information on storage conditions

Product is hygroscopic. Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from light. Protect from heat.

7.3. Specific end use(s)

Cosmetics; pharmacy; Food

SECTION 8: Exposure controls/personal protection ***

8.1. Control parameters

Exposure limit values ***

Glycerol

List	SUVA	
Type	MAK	
Value	50	mg/m ³
Short term exposure limit	100	mg/m ³
Pregnancy group: S; Remarks: SSc; OAWKT AN		

8.2. Exposure controls

Exposure controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

General protective and hygiene measures

Observe the usual precautions for handling chemicals. Avoid contact with eyes. Provide washing facilities at the place of work. Wash hands before breaks and after work. Do not eat or drink during work time.

Respiratory protection

Provide good ventilation of working area (local exhaust ventilation if necessary). Breathing apparatus in the event of aerosol or mist formation. Gas filterA.

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Hand protection

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Hand protection must comply with EN 374.

Appropriate Material	butyl
Appropriate Material	Polyethylene
Appropriate Material	neoprene
Appropriate Material	Natural Latex
Appropriate Material	PVC
Appropriate Material	nitrile rubber - NBR

Eye protection

Safety glasses with side protection shield; Eye protection must comply with EN 166.

Body protection

necessary; Clothing as usual in the chemical industry. Protective shoes

Environmental exposure controls

Do not allow to enter drains or water courses.

SECTION 9: Physical and chemical properties *****9.1. Information on basic physical and chemical properties**

Form	liquid
Colour	colourless
Odour	odourless
pH value	
Value	7
Melting point	
Value	18.17 °C
Initial boiling point and boiling range	
Value	290 °C
Flash point	
Value	> 180 °C
Vapour pressure	
Value	< 0.1 hPa
Temperature	20 °C
Vapour density	
Value	appr. 3.1 g/cm ³
Density	
Value	1.26 g/cm ³
Temperature	20
Solubility in water	
Remarks	soluble
Ignition temperature	
Value	429 °C
Decomposition temperature	
Value	appr. 250 °C
Viscosity	
dynamic	

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Value	1.412		mPa.s
Temperature	20	°C	

9.2. Other information**Other information**

The product is not dangerous for explosions.

SECTION 10: Stability and reactivity**10.1. Reactivity**

Strong oxidising agents

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

If product is heated above decomposition temperature toxic vapours may be released.

10.4. Conditions to avoid

Heat. Flames. Sparks. Sensitive to moisture.

10.5. Incompatible materials

Strong oxidising agents

10.6. Hazardous decomposition products

In the event of fire the following can be released: Carbon monoxide and carbon dioxide, acrylaldehyde , Peroxides

SECTION 11: Toxicological information *****11.1. Information on toxicological effects****Acute oral toxicity (Components)****Glycerol**

Species	rat		
LD50		12600	mg/kg

Glycerol

Species	rat		
NOAEL		1310	mg/kg

Glycerol

Species	rat		
LD50		27200	mg/kg

Acute dermal toxicity (Components)**Glycerol**

Species	guinea pig		
LD50		56750	mg/kg

Acute inhalative toxicity (Components)**Glycerol**

Remarks	No data available
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Skin corrosion/irritation (Components)**Glycerol**

Species	rabbit		
Duration of exposure evaluation		24	h
		slightly irritant	

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Serious eye damage/irritation (Components)**Glycerol**

Species	rabbit
Duration of exposure	24 h
evaluation	slightly irritant

Sensitization (Components)**Glycerol**

evaluation	non-sensitizing
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Subacute, subchronic, chronic toxicity (Components)**Glycerol**

Remarks	No data available.
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Mutagenicity (Components)**Glycerol**

evaluation	No mutagenicity in the Ames-test.
Remarks	Based on available data, the classification criteria are not met.

Glycerol

evaluation	No mutagenicity according to various in vitro tests.
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Glycerol

evaluation	No experimental information on genotoxicity in vitro available.
Method	OECD 471

Reproduction toxicity (Components)**Glycerol**

Remarks	Based on available data, the classification criteria are not met.
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Carcinogenicity (Components)**Glycerol**

Remarks	Based on available data, the classification criteria are not met.
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Other information

By appropriate use of the product no health damage is known.

SECTION 12: Ecological information *****12.1. Toxicity****Fish toxicity (Components)****Glycerol**

	Medi	68100	mg/l
	an		
Duration of exposure		96	h

Glycerol

Species	rainbow trout (Oncorhynchus mykiss)
LC50	54 g/l
Duration of exposure	96 h

Daphnia toxicity (Components)**Glycerol**

Species	Daphnia
EC50	10 g/l

Algae toxicity

Remarks	No data available.
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Bacteria toxicity (Components)

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Glycerol

Species	Pseudomonas putida	
EC5	> 10	g/l
Duration of exposure	16	h

12.2. Persistence and degradability**Biodegradability (Components)****Glycerol**

evaluation Readily biodegradable

12.3. Bioaccumulative potential**Octanol/water partition coefficient (log Pow) (Components)****Glycerol**

log Pow -1.75

12.4. Mobility in soil**Mobility in soil (Components)****Glycerol**

Slightly mobile in soils

12.5. Results of PBT and vPvB assessment**Evaluation of persistence and bioaccumulation potential (Components)****Glycerol**

The Substance doesn't meets PBT/vPvB-criteria

12.6. Other adverse effects**General information / ecology**

Do not allow it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Germany)**

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Water Hazard Class
(Germany)

WGK 1

Remarks

Derivation of WGK according to Annex 1 No. 5.2 AwSV

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information**Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.