24.07.2025

Safety information sheet

Version: 1.0 EN

Vegetable glycerine refined 99,5%, E 422

Article number: D10119

This document has been prepared as a communication tool to inform downstream users about both the status of the substance under REACH and CLP, some of its essential properties and the guidance on safe use. An extended safety data sheet (SDS) is not required for this substance under Article 31 of REACH Regulation (EC) No 1272/2008, including the amending Regulation (EU) 2020/878. As a result, the format and content of this document does not comply with the framework for safety data sheets set out in Commission Regulation (EU) No 453/2010 amending Regulation (EC) No 1907/2006.

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1 Identification of the substance/mixture and the company

1.1 Product identifier

Name	Glycerine 99,5 %
CAS number	56-81-5
EC number	200-289-5
REACH registration	-

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

Description/use	The product is intended for use in pharmaceutical production, food processing, cosmetic applications, industrial processes and analysis. Excessive consumption may have a laxative effect. For further information on specific applications, please contact us on the telephone number given - we will be happy to put you in touch with the relevant specialist department.

1.3 Details of the supplier providing the safety information sheet

Company	DistrEbution GmbH
Adress	Brookdeich 40 21029 Hamburg Germany
Telephone	+49 40 609 2387 60
E-Mail	info@distrebution.com

1.4 Emergency number

+49 40 609 2387 60 (Business hours: Mon - Thu: 8 a.m.- 5 p.m. / Fri: 8 a.m. – 4 p.m.)

2 Potential hazards

2.1 Classification oft he substance or mixture

Not classified according to Chemicals Regulation (EC) Nr.1272/2008.

2.2 Label elements

Not subject to classification according to Regulation (EC) No 1272/2008.

2.3 Other hazards

No PBT or vPvB assessment data available.

3 Composition/information on ingredients

Chemical characterization:	Glycerine 99,5 %
CAS number	56-81-5
EC number	200-289-5
REACH registration	-
Hazardous ingredients	none
Nanoparticles	No nanoparticles according to Regulation (EU) 2018/1881

4 First-aid measures

4.1 Description of first-aid measures

In case of emergency, contaminated clothing should be removed immediately and medical advice should always be sought if unsure or if symptoms occur.

After eye contact

Rinse eyes thoroughly for several minutes under running water with eyelids open. Seek medical attention if symptoms persist.

After skin contact

Wash the affected skin area immediately with water.

Inhalation or ingestion

Remove affected person to fresh air. Rinse mouth thoroughly and drink plenty of water. If symptoms persist, consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Basic evacuation, decontamination and symptomatic treatment.

5 Firefighting measures

5.1 Eytinguishing agents

Suitable extinguishing agents

Carbon dioxide (CO2), extinguishing powder, water spray jet, alcohol-resistant foam

Unsuitable extinguishing agents

Full water jet

5.2 Special hazards arising from the substance or mixture

The substance is flammable. In case of fire, harmful gases such as carbon dioxide, carbon monoxide and acrolein may be released. In case of strong heating, there is a risk of explosion due to the formation of flammable air mixtures.

5.3 Advice fo firefighters

Protective equipment for firefighters

Use full protective suit and self-contained breathing apparatus. Avoid skin contact by maintaining a safe distance or wearing suitable protective clothing.

Additional information

Cool container with water spray from a safe distance. Dampen escaping vapors with water. Prevent contaminated extinguishing water from entering surface water or groundwater.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

In case of accidental release of the substance, avoid gases, vapors and aerosols. Avoid inhalation of these substances.

6.2 Environmental precautions

Prevent from entering drains, surface waters or groundwater. There is only a risk to drinking water in the event of very large quantities leaking into the ground.

6.3 Methods and material for containment and cleaning up

Absorption should be carried out with liquid-binding materials such as sand, diatomaceous earth, acid binders or universal binders. Small quantities can be diluted with plenty of water and rinsed off. Larger quantities must be disposed of in accordance with official regulations. The product is biodegradable.

6.4 Reference to other sections

See section 7 for information on safe handling.

See section 8 for information on personal protective equipment.

See section 13 for information on disposal.

7 Handling and storage

7.1 Precautions for safe handling

No special measures required.

7.2 Conditions for safe storage, including any incompatibilites

There are no special requirements for storage rooms and containers. Separate storage of foodstuffs, beverages and animal feed must be observed. The storage location should be cool, with a recommended storage temperature between 5-40 °C. Storage is in accordance with TRGS 510 under storage class 10 (flammable and non-flammable liquids and solids that are not assigned to any other storage class).)

7.3 Specific end uses

No further relevant information available.

8 Exposure controls/personal protective equipment

8.1 Parameters to be monitored

OEL (occupational exposure limit value): Long-term value 200mg/m3 (inhalable fraction), 2 (I); DFG, Y

8.2 Limitation and monitoring of exposure

8.2.1 Apprpriate engineering controls

Ensure adequate ventilation of the workplace, see section 7.

8.2.2 Personal protective equipment

Respiratory protection

In case of aerosol or mist formation, use respirator with filter type A/P2.

Hand protection

Wear suitable, chemical-resistant protective gloves in accordance with Regulation (EU) 2016/425 and EN 374 tragen. Suitable materials include:

- Nitrile rubber (0.38 mm, > 480 min)
- Neoprene (0.65 mm, > 240 min)
- Butyl rubber (0.36 mm, > 480 min)

Avoid natural rubber. Synthetic rubber gloves are recommended. Recommended minimum material thickness: ≥ 0.11 mm; Permeation level ≥ 480 min (Level 6)

Eye protection

Not required. Safety goggles can be worn if necessary.

Other protective measures

Change contaminated clothing immediately. Wash hands thoroughly before breaks and after work. Do not eat, drink or smoke when handling the product. Avoid contact with eyes, skin and clothing.

Limitation and supervision of exposure tot he environment

Do not allow to enter drains, surface water or groundwater.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	Liquid, viscous
Color	Colourless
Odor	Pleasant
pH at 20°C	7 - 7.5
Melting point	18°C
Boiling point	> 290°C
Decomposition point	No data available
Flash point	~ 180°C (o.c.)
Ignition temperature	~ 199°C (c.c.)
Flammability	~ 400°C
Lower explosion limit	No data available
Upper explosion limit	~ 2.6 Vol %
Kinematic viscosity	~ 11.3 Vol %
Dynamic viscosity (20°C)	No data available
Water solubility	~ 1500 mPas

Partition coefficient n-octanol/water (log value)	miscible -1.8 log POW (pure substance)
Vapor pressure (20°C)	< 0.001 hPa
Density (20°C)	1.26 g/cm3
Relative vapor density	No data available
Relative density	No data available

9.2 Other information

Explosive properties	The product is not explosive
Evaporation rate	No data available
Explosive substances/mixtures and articles containing explosives	Not applicable
Flammable gases	Not applicable
Aerosols	Not applicable
Oxidizing gases	Not applicable
Gases under pressure	Not applicable
Flammable liquids	Not applicable
Flammable solids	Not applicable
Self-reactive substances and mixtures	Not applicable
Pyrophoric liquids	Not applicable
Pyrophoric solids	Not applicable
Self-heating substances and mixtures	Not applicable
Substances and mixtures, which, in contact with water, emit flammable gases	Not applicable
Oxidizing liquids	Not applicable
Oxidizing solids	Not applicable
Organic peroxides	Not applicable
Substances and mixtures corrosive to metals	Not applicable
Desensitized substances/mixtures and articles containing explosives	Not applicable

10 Stability and reactivity

10.1 Reactivty

No data available

10.2 Chemical stability

Stable under normal storage and handling conditions. Decomposition possible when heated to high temperatures.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Halogens, strong oxidizing agents, peroxides, concentrated nitric acid, sulfuric acid, phosphorus oxides, hydrogen peroxide.

10.6 Hazardous decomposition products

Explosive when heated in vapor or gas form with air.

11 Toxicological information

11.1 Information on hazard classes according to Regulation (EC) No. 1272/2008

Acute oral toxicity	LD50 (oral, mouse): 250 mg/kg LD50 (oral, rat): 12,600 mg/kg Based on available data, the classification criteria are not met.
Acute dermal toxicity	Based on available data, the classification criteria are not met.
Acute inhalation toxicity	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitization	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.

Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure)	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Additional toxicological information	The information is based on the properties of the individual components. If vapors are inhaled: Possible irritation of the respiratory tract. In case of ingestion of large quantities: possible symptoms such as nausea, vomiting, abdominal pain, headache, drowsiness, diarrhea, cyanosis.

11.2 Information on other hazards

Endocrine disrupting properties

No data available

12 Environmental information

12.1 Toxicity

No data available

12.2 Persistence and degradability

Biodegradation (based on glycerin):

– DOC degradation > 70 %

– BOD > 60 %

– BOD5 zu COD > 50 %

– Degradation rate: > 60 % after 14 days.

12.3 Bioaccumulatiove potential

None Bioaccumulative potential is not expected due to the n-octanol/water partition coefficient (log Pow -1.8).

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

No data available

12.8 Other information

Fish toxicity	Carassius auratus LC50: > 5000 mg/l (24 h)
Daphnia toxicity	Daphnia magna EC50: > 10000 mg/l (24 h)
Algae toxicity	Scenedesmus quadricauda IC5: > 10000 mg/l (7 d)
Bacteria toxicity	Pseudomonas putida EC5: > 10000 mg/l (16 h)
Protozoa	Entosiphon sulcatum EC5: 3200 mg/l (72 h)
BOD	71 % of ThSB/5 d
COD	95 % of ThSB
ThOD	1,217 g/g

Further ecological information

Water hazard class 1 - slightly hazardous to water

No complete ecotoxicological assessment available.

The information is based on the properties of the individual components.

The product is AOX-free (free of organically bound halogen).

All data refer to the pure substance.

No ecological problems are to be expected if used properly.

13 Disposal instructions

13.1 Waste treatment methods

Product disposal

Disposal must be carried out in accordance with the applicable official regulations. The product must not be disposed of with household waste or discharged into the sewage system. Small quantities can be diluted with plenty of water and rinsed away, larger quantities must be disposed of by special treatment or municipal disposal.

Disposal of packaging

Contaminated packaging should be emptied as completely as possible. Packaging that cannot be cleaned should be disposed of in the same way as the substance itself. Completely emptied packaging can be recycled. Water with added cleaning agents can be used as a cleaning agent.

14 Transport information

14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Packing group

No data available

14.5 Environmental hazards

No data available

14.6 Special precautions for user

No data available

14.7 Transport in bulk by sea according to IMO regulations

No data available

14.8 Transport/further information

Not a dangerous good according to the mentioned regulations.

15 Legislation

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

15.1.1 EU regulations

According to Regulation (EC) No. 1272/2008 (CLP) the substance is not subject to labeling. Hazard pictograms, signal word and hazard statements are not applicable.

According to Directive 2012/18/EU the substance is not listed in Annex I.

The substance is also not included in:

- Directive 2011/65/EU (RoHS) - Annex II
- Regulation (EU) 2019/1148
- Annex I and II of the mentioned regulation (explosives precursors)
- Regulation (EC) No. 273/2004 (drug precursors)
- Regulation (EC) No. 111/2005 (Drug trafficking - Community/third countries)

15.1.2 National regulations

Water hazard class	WGK 1: slightly hazardous to water
Other regulations	BG data sheet: M017 (solvents)

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this substance.

16 Other information

16.1 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

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

EINECS - European Inventory of Existing Commercial Chemical Substances

CAS - Chemical Abstracts Service

EC50 - Effective Concentration, 50 %

LC50 - Lethal concentration, 50 %

LD50 - Lethal dose, 50 %

PBT - persistent, bioaccumulative and toxic

vPvB - very persistent and very bioaccumulative

16.2 SVHC

The substances on the ECHA list (http://echa.europa.eu/en/candidate-list-table) are neither expected to be present in our products nor are they intentionally used in the production process. Our products do not come into contact with these substances during production. However, it is not possible to completely rule out traces of these substances: due to natural impurities or raw material-related properties, an unintentional content of less than 0.1% cannot be completely ruled out.

16.3 Note for users

The information in this data sheet is based on our current knowledge at the time of the last revision. The user is responsible for checking the suitability and completeness of the information in relation to the specific use of the product.

This document does not constitute a guarantee for specific properties of the product. As we have no direct influence on the use of the product, the user is obliged to comply with all applicable laws, regulations and safety and hygiene provisions on his own responsibility. We accept no liability for improper use. Personnel entrusted with the handling of chemicals must be appropriately trained.