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Safety data sheet according to UK REACH

revised on: 05.07.2024

Version number 9

Creation Date: 25.01.2016

SECTION 1: Identification of the substance/mixture and of the company/un	dertaking
· 1.1 Product identifier	
· Trade name: Glycerol	
	d exposure or casional
Industrial use Laboratory chemical Chemical analytics	
 • 1.3 Details of the supplier of the safety data sheet • Manufacturer/Supplier: Th. Geyer GmbH & Co. KG Dornierstr. 4 – 6 	
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Trade name: Glycerol

D-71272 Renningen

Tel.: +49(0)7159-1637-0, Fax:+49 (0)7159/18417 www.thgeyer.de sicherheitsdatenblaetter@thgeyer.de

· Further information obtainable from: Product management department

 1.4 Emergency telephone number: National Poisons Information Service City Hospital Dudley Road Birmingham B18 7QH Tel.:Emergency: (00 44) 87 06 00 62 66 Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111 In Scotland: NHS 24 - dial 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
 Classification according to Regulation (EC) No 1272/2008
 The substance is not classified, according to the GB CLP regulation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.1 Substances
- · CAS No. Description
- CAS: 56-81-5 Glycerol
- · Identification number(s)
- EC number: 200-289-5

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- General information:
 First aider needs to protect himself.
 Immediately remove any clothing soiled by the product.
 After inhalation: Supply fresh air; consult doctor in case of complaints.
 After skin contact:
- Generally the product does not irritate the skin.

Wash with plenty of soap and water, take off soiled clothes and shoes.

• After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor. Remove contact lenses

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• After swallowing: Rinse out mouth and then drink plenty of water. If symptoms persist consult doctor.

- · Information for doctor: Please observe safety data sheet/label.
- · 4.2 Most important symptoms and effects, both acute and delayed

Nausea

Headache

Unconsciousness

Gastric or intestinal disorders

· 4.3 Indication of any immediate medical attention and special treatment needed Symptomatic treatment.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

- Use carbon dioxide, extinguishing powder, water spray or alcohol-resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet.

· 5.2 Special hazards arising from the substance or mixture

- Formation of toxic gases is possible during heating or in case of fire. In case of fire, the following can be released:
- Carbon oxides (CO, CO2)
- 5.3 Advice for firefighters

• **Protective equipment:** Wear fully protective suit.

Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases.

Additional information
 Cool endangered receptacles with water spray.
 Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
 Safely prevent extinguishing water from entering groundwater or surface water.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Clear the danger zone.

Ensure adequate ventilation.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Particular danger of slipping on leaked/spilled product.

· 6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Cover the sewerage system.

Prevent spreading over an area (e.g. by damming or oil booms).

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the material collected according to regulations.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Apply the general protective and hygienic measures when handling chemicals.

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· Information about fire - and explosion protection: Flammable fabric, flame retardant

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- \cdot 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- · Information about storage in one common storage facility: Store away from oxidising agents.
- Further information about storage conditions: Protect from heat and direct sunlight.

Store in cool, dry conditions in well sealed receptacles.

- · Storage class: 10
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

CAS: 56-81-5 Glycerol

WEL Long-term value: 10 mg/m³

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals.
- · Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. If air-purifying respiratory protection is required according to the risk assessment, wear a respirator with full-face mask with combination filter (US) or with filter type ABEK (EN 14387) filter cartridge. If the respirator is the only protective measure, an ambient air self-contained breathing apparatus with afull face mask must be worn. Respirators and components must be approved to appropriate government standards (for example, NIOSH (US) or CEN (EU)).Translated with www.DeepL.com/Translator (free version)

Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves
- Nitrile rubber, NBR

Recommended thickness of the material: \geq 0.11 mm

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Level 6 for applications > 480 min
- Eye/face protection



Safety glasses

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Body protection:



Protective work clothing (e. g. safety shoes EN ISO 20345, long-sleeved protective working garments).

SECTION 9: Physical and chemical properties · 9.1 Information on basic physical and chemical properties · General Information Physical state Fluid · Colour: Colourless · Odour: Pleasant · Melting point/freezing point: ~18.2 °C · Boiling point or initial boiling point and boiling range ~290 °C · Flammability Not applicable. · Lower and upper explosion limit · Lower: 2.6 Vol % · Upper: 11.3 Vol % · Flash point: 180 °C · Auto-ignition temperature: 400 °C · Decomposition temperature: Not determined. · pH 5 · Viscosity: · Kinematic viscosity Not determined. · Dynamic at 20 °C: 1,412 mPas · Solubility · water: Fully miscible. · Partition coefficient n-octanol/water (log value) Not determined. · Vapour pressure at 20 °C: <0.1 hPa Vapour pressure at 50 °C: ~0.015 hPa · Density and/or relative density · Density at 20 °C: 1.26 g/cm³ Not determined. Not determined. · Relative density Vapour density Not determined. · 9.2 Other information · Appearance: · Form: Viscous · Important information on protection of health and environment, and on safety. · Ignition temperature: Not determined. · Explosive properties: Product does not present an explosion hazard. · Molecular weight 92 g/mol · Change in condition · Evaporation rate Not determined. · Information with regard to physical hazard classes · Explosives Void · Flammable gases Void Void · Aerosols · Oxidising gases Void (Contd. on page 6)

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· Gases under pressure	Void	
· Flammable liquids	Void	
Flammable solids	Void	
 Self-reactive substances and mixtures 	Void	
· Pyrophoric liquids	Void	
Pyrophoric solids	Void	
· Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit flamn	nable	
gases in contact with water	Void	
· Oxidising liquids	Void	
· Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability Stable when stored and handled properly.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions Forms explosive gas mixture with air.
- · 10.4 Conditions to avoid

Heat, flames and sparks.

Protect from moisture.

- · 10.5 Incompatible materials: Avoid contact with other chemicals.
- 10.6 Hazardous decomposition products: In case of fire: see section 5.

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

 \cdot Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

Oral LD50 12,600 mg/kg (rat)

Dermal LD50 10,000 mg/kg (rabbit)

- 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 sensitisation 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.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2 Information on other hazards
- Endocrine disrupting properties Substance is not listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.

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- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods Observe local (country-specific) regulations and laws.

Recommendation

Smaller quantities can be disposed of with household waste.

Chemicals must be disposed of in accordance with the respective national regulations.

· European waste catalogue		
07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES	
07 01 00	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals	
07 01 04*	other organic solvents, washing liquids and mother liquors	

· Uncleaned packaging:

- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport informatio	n	
 · 14.1 UN number or ID number · ADR, ADN, IMDG, IATA 	not regulated	
 · 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA 	not regulated	
 14.3 Transport hazard class(es) 		
· ADR, ADN, IMDG, IATA · Class	not regulated	
· 14.4 Packing group · ADR, IMDG, IATA	not regulated	
· 14.5 Environmental hazards:	Not applicable.	
· 14.6 Special precautions for user	Not applicable.	
 14.7 Maritime transport in bulk according instruments 	to IMO Not applicable.	
· UN "Model Regulation":	not regulated	

SECTION 15: Regulatory information

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

• Inventory of Hazardous Chemicals Substance is not listed.

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Contd. of page 7) Poisons Act
 Regulated explosives precursors Substance is not listed.
Regulated poisons Substance is not listed.
Reportable explosives precursors Substance is not listed.
Reportable poisons Substance is not listed.
 Labelling according to Regulation (EC) No 1272/2008 Void
· Hazard pictograms Void
· Signal word Void
· Hazard statements Void
· Directive 2012/18/EU
• Named dangerous substances - ANNEX I Substance is not listed.
· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and
electronic equipment – Annex II
Substance is not listed.
· REGULATION (EU) 2019/1148
 Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing
under Article 5(3))
Substance is not listed.
 Annex II - REPORTABLE EXPLOSIVES PRECURSORS Substance is not listed.
• Regulation (EC) No 273/2004 on drug precursors Substance is not listed.
• Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community
and third countries in drug precursors
Substance is not listed.
· National regulations:
· Information about limitation of use:
Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.
 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.
SECTION 16: Other information
This information is based on our present knowledge. However, this shall not constitute a guarantee for any
specific product features and shall not establish a legally valid contractual relationship.
The application, use and processing of our products are beyond our control and are therefore exclusively your
responsibility.
Department issuing SDS: Product management
Department issuing SDS: Product management Contact: Broduct management

Contact: Product management

· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

• * Data compared to the previous version altered.