

1 Identification of substance:

· **Product details:**

· **Trade name:** **Thioglycerol**

· **Application of the substance / the preparation** Laboratory chemicals

· **Manufacturer/Supplier:**

Cellendes GmbH

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· **Informing department:**

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· **Emergency information:**

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(8 - 16 hour)

2 Hazards identification

· **Hazard designation:** void

· **Information pertaining to particular dangers for man and environment**

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.



· **GHS label elements** Void

3 Composition/information on ingredients

· **Chemical characterization**

· **Description:** Solution of 1-Thioglycerol

· **Dangerous components:**

| | | | |
|-------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------|------|
| CAS: 96-27-5 | 3-mercaptopropane-1,2-diol |  Xn; R 20/21/22 | < 1% |
| EINECS: 202-495-0 | | Warning:  3.1.O/4, 3.1.D/4, 3.1.I/4 | |

4 First aid measures

· **General information** No special measures required.

· **After inhalation** Take affected persons into the open air and position comfortably

· **After skin contact** Instantly wash with water and soap and rinse thoroughly.

· **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

· **After swallowing**

Rinse the mouth with water immediately

Seek medical advice.

· **Information for doctor** No particular measures are known - treat according to symptoms.

5 Fire fighting measures

· **Suitable extinguishing agents** Use fire fighting measures that suit the environment.

· **For safety reasons unsuitable extinguishing agents** Water with a full water jet.

· **Protective equipment:** Wear self-contained breathing apparatus.

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· **Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Person-related safety precautions:** Avoid contact with eyes and skin.
- **Measures for environmental protection:**
 - Do not allow product to reach sewage system or water bodies.
 - Do not allow to enter the ground/soil.
- **Measures for cleaning/collecting:**
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 - Dispose of the material collected according to regulations.
- **Additional information:** See Section 13 for information on disposal.

7 Handling and storage

- **Handling**
- **Information for safe handling:** The usual precautionary measures for handling chemicals must be observed.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and containers:** Store only in the original container.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
 - Keep container tightly sealed.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
 - Keep away from foodstuffs, beverages and food.
 - Wash hands during breaks and at the end of the work.
 - Do not eat, drink or smoke while working.
- **Breathing equipment:** Not required.
- **Protection of hands:**



Protective gloves.

Preventive skin protection by use of skin-protecting agents is recommended.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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- **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.
- **As protection from splashes gloves made of the following materials are suitable: PVC gloves**
- **Not suitable are gloves made of the following materials:**
Leather gloves
Strong gloves
- **Eye protection:**



Tightly sealed safety glasses.

- **Body protection:** Protective work clothing.

9 Physical and chemical properties:

· General Information

| | |
|----------------|----------------------|
| Form: | Fluid |
| Colour: | Colourless |
| Odour: | Weak, characteristic |

· Change in condition

Melting point/Melting range: Not determined
Boiling point/Boiling range: 100°C

- | | |
|-------------------------------------------|-------------------------------|
| · Flash point: | Not applicable |
| · Self-inflammability: | Product is not self igniting. |
| · Danger of explosion: | Product is not explosive. |
| · Vapour pressure at 20°C: | 23 hPa |
| · Density | Not determined |
| · Solubility in / Miscibility with | |
| Water: | mixable |

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Materials to be avoided:** strong oxidizing agents
- **Dangerous reactions** none, if used as directed
- **Dangerous products of decomposition:** none, if stored and handled correctly.

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** No irritant effect.
- **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

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When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information:

- **Ecotoxicological effects:** Not determined
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation** For disposal, local regulations issued by the authorities must be observed.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | |
|------------------------------------------------------------------------------------|
| · Land transport ADR/RID (cross-border) · ADR/RID-GGVS/E Class: - |
| · Maritime transport IMDG: · IMDG Class: - |
| · Air transport ICAO-TI and IATA-DGR: · ICAO/IATA Class: - |
- **UN "Model Regulation":** -
 - **Transport/Additional information:** Not dangerous according to the above specifications.

15 Regulatory information

- **Designation according to EC guidelines:**
Observe the normal safety regulations when handling chemicals
The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EC" as issued in the last version.
The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).
- **National regulations**
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant R-phrases**
20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- **Department issuing data specification sheet:**

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· **Department issuing data specification sheet:**

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· **Contact:**

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· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GB