

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 25.08.2007

Revision: 25.08.2007

1 Identification of substance:

- **Product details:**
- **Trade name:** Glycerol
- **Article number:** 2136
- **Application of the substance / the preparation**

Chemicals for synthesis
Laboratory chemicals

- **Manufacturer/Supplier:**

Mallinckrodt Baker B.V
P.O.Box 1
7400 AA Deventer
The Netherlands

Tel(+31)(0) 570-687500
Fax(+31)(0) 570-687574
E-mail : jt baker.nl@covidien.com

- **Informing department:**

Quality Systems & Regulatory Affairs
E-mail : sjors.duteweert@covidien.com

- **Emergency information:**

Environment Health & Safety department
during normal opening times (8 am till 5.30 pm) tel: (+31)(0) 570 687500

2 Hazards identification

- **Hazard designation:** void
- **Information pertaining to particular dangers for man and environment** void

3 Composition/information on ingredients

- **Chemical characterization:**
- **CAS No. Designation:**
56-81-5 Glycerol
- **Identification number(s):**
- **EINECS Number:** 200-289-5

4 First aid measures

- **General information** No special measures required.
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact** The product is not skin irritating.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing** Rinse out mouth and then drink plenty of water.

5 Fire fighting measures

- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **Protective equipment:** Wear full protective suit.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Dilute with plenty of water.

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- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Additional information:** *No dangerous materials are released.*

7 Handling and storage

- **Handling**
- **Information for safe handling:** *No special measures required.*
- **Information about protection against explosions and fires:** *no special requirements*
- **Storage**
- **Requirements to be met by storerooms and containers:** *No special requirements.*
- **Information about storage in one common storage facility:** *Store away from oxidizing agents.*
- **Further information about storage conditions:** *Store under dry conditions.*

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** *No further data; see item 7.*

- **Components with critical values that require monitoring at the workplace:**

56-81-5 Glycerol

WEL () Long-term value: 10 mg/m³

- **Additional information:** *The lists that were valid during the compilation were used as basis.*
- **Personal protective equipment**
- **General protective and hygienic measures**
The usual precautionary measures should be adhered to in handling the chemicals.
- **Breathing equipment:**
Use breathing protection only when aerosol or mist is formed.
Filter P1.
- **Protection of hands:**
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**
Butyl rubber, BR
PVC 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.
- **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** *Safety glasses recommended during refilling.*

9 Physical and chemical properties:

- **General Information**

Form: Viscous
Colour: Colourless
Smell: Nearly odourless

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- **Change in condition**
 - Melting point/Melting range:** 18.2°C
 - Boiling point/Boiling range:** 290°C
- **Flash point:** 160°C
- **Ignition temperature:** 400°C
- **Danger of explosion:** Product is not explosive.
- **Critical values for explosion:**
 - Lower:** 0.9 Vol %
- **Steam pressure at 20°C:** <0.1 hPa
- **Density at 20°C:** 1.26 g/cm³
- **Solubility in / Miscibility with Water:** Fully miscible

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** Heat,boiling teperatures.
- **Materials to be avoided:**
 - acids
 - alkalis
 - Strong oxidizers
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of composition:** No dangerous decomposition products known

11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

Oral	LD50	4090 mg/kg (mouse)
		12600 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)

- **Primary irritant effect:**
 - on the skin:** No irritant effect.
 - on the eye:** No irritant effect.
- **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:**
 - 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.
 - The material is not subject to classification according to EC lists in the last version.

12 Ecological information:

- **General notes:**
 - Water hazard class (D) 1 (Assessment by list): slightly hazardous for water.
 - Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

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13 Disposal considerations

- **Product:**
- **Recommendation** Smaller quantities can be disposed with household garbage.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

14 Transport information

- | | |
|---|-----|
| · Land transport ADR/RID and GGVS/GGVE (cross-border/domestic) | n/a |
| · ADR/RID-GGVS/E Class: | - |
| · Maritime transport IMDG/GGVSea: | |
| · IMDG/GGVSea Class: | - |
| · Air transport ICAO-TI and IATA-DGR: | |
| · ICAO/IATA Class: | - |

15 Regulatory information

- **Designation according to EC guidelines:**
The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).
The material is not subject to classification according to EC lists and other sources of literature known to us.
Observe the normal safety regulations when handling chemicals

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.
- **Department issuing data specification sheet:** Quality Assurance Department
 - **Contact:** Sjors duteweert
 - *** Data compared to the previous version altered.**