

1 Identification of substance

- **Trade name:** **Glycerine tech**
- **Application of the substance / the preparation** Chemical intermediate
- **Manufacturer/Supplier:**
Perstorp Oxo AB
SE-444 84 Stenungsund
Sweden
Tel. +46 303 728600
www.perstorp.com
- **Information department:** Product safety department.
- **Emergency information:**
(United States) - CHEMTREC 1-800-424-9300.
(Int.) +46 8 337043 (Emergency Response Center, Sweden)

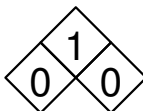
2 Composition/Data on components

- **Chemical components:**

56-81-5	1,2,3-propanetriol, glycerol	99%
67-56-1	methanol	0.3%

3 Hazards identification

- **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 1
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**

HEALTH	0
FIRE	1
REACTIVITY	0

Health = 0
Fire = 1
Reactivity = 0

4 First aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Rinse out mouth and then drink plenty of water or milk.

5 Fire fighting measures

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire fighting measures that suit the environment.
- **Protective equipment:** Wear self-contained respiratory protective device.

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- **Additional information** Cool endangered receptacles with water spray.

6 Accidental release measures

- **Person-related safety precautions:** Ensure adequate ventilation
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Additional information:** Inform authorities in case of large spillage.

7 Handling and storage

- **Information for safe handling:** Store in cool, dry place in tightly closed receptacles.
- **Information about protection against explosions and fires:** Protect from heat.
- **Storage:**
- **Information about storage in one common storage facility:** Store away from oxidizing agents.

8 Exposure controls and personal protection

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

56-81-5 1,2,3-propanetriol, glycerol

PEL	15* 5** mg/m ³ *total dust **respirable fraction
TLV	10* ppm *Mist

67-56-1 methanol

PEL	260 mg/m ³ , 200 ppm
REL	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
TLV	Short-term value: 328 mg/m ³ , 250 ppm Long-term value: 262 mg/m ³ , 200 ppm Skin; BEI

- **Personal protective equipment:**
- **Breathing equipment:**
Use suitable respiratory protective device only when aerosol or mist is formed.
Filter P2
- **Protection of hands:**



Protective gloves

- **Material of gloves**
Nitrile rubber, NBR
PVC gloves
- **Penetration time of glove material**
The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye protection:



Safety glasses

9 Physical and chemical properties

· General Information

Form:	Liquid
Color:	Yellowish
Odor:	Mild

· Change in condition

Melting point/Melting range:	18°C (64°F)
Boiling point/Boiling range:	290°C (554°F)

· Flash point: 160°C (320°F)

· Ignition temperature: 393°C (739°F)

· Danger of explosion: Product does not present an explosion hazard.

· Vapor pressure at 25°C (77°F): 0.0001 hPa (0 mm Hg)

· Density at 20°C (68°F): 1261 kg/m³

· Solubility in / Miscibility with

Water: Fully miscible.

· Segregation coefficient (n-octanol/water): -1.76 log POW

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· Dangerous reactions

Reacts with strong acids and alkali.

Reacts with oxidizing agents.

11 Toxicological information

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

56-81-5 1,2,3-propanetriol, glycerol

Oral | LD50 | > 4000 mg/kg (rat)

· Primary irritant effect:

· on the skin: No irritant effect.

· on the eye: No irritating effect.

· Sensitization: No sensitizing effects 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 substance is not subject to classification.

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12 Ecological information

- **Information about elimination (persistence and degradability):**
- **Other information:** The product is readily biodegradable.
- **Behavior in environmental systems:**
- **Mobility and bioaccumulation potential:** Not worth-mentioning accumulating in organisms
- **Ecotoxic effects:**

- **Aquatic toxicity:**

56-81-5 1,2,3-propanetriol, glycerol

EC50/24 h > 10000 mg/l (daphnia)

EC50/96 h > 10000 mg/l (alga)

LC50/24 h > 5000 mg/l (fish)

- **Remark:** Not harmful to aquatic organisms.

13 Disposal considerations

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

14 Transport information

- **DOT regulations:**
- **Hazard class:** -
- **Remarks:** Not DOT regulated material

- **Land transport ADR/RID (cross-border):**
- **ADR/RID class:** -

- **Maritime transport IMDG:**
- **IMDG Class:** -

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

- **Transport/Additional information:** Not dangerous according to the above specifications.

15 Regulations

- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

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· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Canadian Domestic Substance List (DSL)**

All ingredients are listed.

· **Chinese Chemical Inventory of Existing Chemical Substances**

All ingredients are listed.

· **Japan Existing and New chemical Substance List (ENCS)**

56-81-5 | 1,2,3-propanetriol, glycerol

· **Korea Existing Chemical Inventory**

56-81-5 | 1,2,3-propanetriol, glycerol

KE-29297

· **Product related hazard informations:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations according to directives on hazardous materials.

· **National regulations:**

· **Technical instructions (air):**

Class	Share in %
I	0.3
NK	99.0

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.

· **Department issuing MSDS:** EHSQ-department, Perstorp Specialty Chemicals AB.

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