

**GLYKOSOL N**

Revision date: 08.01.2018

Product code: 11386-0003

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**1. Identification****Product identifier**

GLYKOSOL N

**Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Various

**Details of the supplier of the safety data sheet**

Company name: pro Kühlssole GmbH  
Street: Am Langen Graben 37  
Place: D-52353 Düren  
Telephone: +49 2421 59196-0  
Responsible Department: Responsible for the safety data sheet: sds@gbk-ingelheim.de  
Telefax: +49 2421 59196-10

**Emergency telephone number:** Notrufnummer INTERNATIONAL: +49 (0) 6132 / 84463 (GBK GmbH, Ingelheim)

**2. Hazard identification****Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

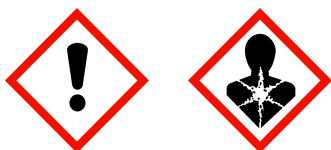
Acute toxicity: Acute Tox. 4

Specific target organ toxicity - repeated exposure: STOT RE 2

Hazard Statements:

Harmful if swallowed.

May cause damage to organs through prolonged or repeated exposure.

**Label elements****Regulation (EC) No. 1272/2008****Signal word:** Warning**Pictograms:****Hazard statements**

Harmful if swallowed.

May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements**

Do not breathe dust/fume/gas/mist/vapours/spray.

Do not eat, drink or smoke when using this product.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

Rinse mouth.

Get medical advice/attention if you feel unwell.

Dispose of contents/container in accordance with local/regional/national/international/ regulations.

**Additional advice on labelling**

The product is classified in accordance with Regulation (EC) No 1272/2008.

**Other hazards**

According to Regulation (EC) No 1907/2006 (REACH), this product is regarded to be neither PBT nor vPvB.

High risk of slipping due to leakage/spillage of product.

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**3. Composition/information on ingredients****Mixtures****Chemical characterization**

Mixture of the following substances with non-hazardous admixtures

**Hazardous components**

CAS No	Chemical name	Quantity
107-21-1	ethanediol, ethylene glycol	95 - < 100 %

**4. First-aid measures****Description of first aid measures****General information**

Remove contaminated soaked clothing immediately. In the event of persistent symptoms receive medical treatment.

**After inhalation**

Move to fresh air in case of accidental inhalation of vapours. In the event of symptoms refer for medical treatment.

**After contact with skin**

Wash off immediately with soap and plenty of water. Consult a doctor if skin irritation persists.

**After contact with eyes**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical treatment by eye specialist.

**After ingestion**

Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Seek medical treatment immediately. Symptoms of poisoning may not occur for many hours, therefore keep under medical supervision for at least 48 hours.

**Indication of immediate medical attention and special treatment needed**

Treat symptoms.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**Alcohol-resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>), water-spray.**Unsuitable extinguishing media**

Full water jet.

**Specific hazards arising from the hazardous product**

Fire may produce: carbon monoxide and carbon dioxide Under certain fire conditions traces of other toxic substances cannot be excluded. Vapours may form explosive mixture with air.

**Special protective equipment and precautions for fire-fighters**

Cool containers at risk with water spray jet. Use breathing apparatus with independent air supply. Wear full protective suit. Suppress escaping gasses/vapours with directed water spray jet.

**Additional information**

Collect contaminated fire-fighting water, avoid any release into the sewerage. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

In case of vapour formation use respirator. Ensure adequate ventilation. Avoid contact with eyes, skin or mucous membrane. Use personal protective clothing.

**Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

**Methods and material for containment and cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

**Reference to other sections**

Information for disposal look up chapter 13.

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

Use only in thoroughly ventilated areas. Avoid contact with eyes, skin or mucous membrane. Ensure adequate room ventilation, if necessary ensure local exhaust at workplace.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking. Take measures against electrostatic charging. Vapours can form an explosive mixture with air.

**Further information on handling**

Avoid formation of aerosols. Do not inhale vapour/aerosol. In case of insufficient ventilation, especially in confined areas.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Store only in original container at cool and aired place.

Keep in a dry place.

**Advice on storage compatibility**

Keep away from food, drink and animal feeding stuffs.

**Further information on storage conditions**

Keep container tightly closed.

**8. Exposure controls/Personal protection****Control parameters****Exposure controls****Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas.

**Protective and hygiene measures**

Wash hands before breaks and immediately after handling the product.

When using do not eat, drink or smoke.

Avoid contact with skin, eyes and clothing.

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Take off immediately all contaminated clothing.

**Eye/face protection**

Tightly fitting goggles.  
Eye wash bottle with pure water.

**Hand protection**

Chemical-resistant gloves (EN 374).  
Suitable materials also for extended, direct contact (recommended: protection index 6, corresponding to a permeation rate > 480 minutes according to EN 374): Nitrile rubber/nitrile latex - NBR (0,35 mm), Butyl rubber - Butyl (0,5 mm).  
Follow the recommendations of the glove manufacturer for breakthrough properties especially for workplace conditions involving mechanical stress and contact duration.

**Skin protection**

Long sleeved clothing.

**Respiratory protection**

No personal respiratory protective equipment normally required.  
Breathing apparatus in the event of aerosol or mist formation.

**9. Physical and chemical properties**
**Information on basic physical and chemical properties**

Physical state:	Liquid
Colour:	Yellow, clear
Odour:	Odourless
pH-Value (at 20 °C):	8 - 10

**Changes in the physical state**

Melting point:	approx. - 30 °C
Initial boiling point and boiling range:	190 °C
Sublimation point:	No data available.
Softening point:	No data available.
Flash point:	116 °C
Sustaining combustion:	No data available

**Flammability**

Solid: No data available.

**Explosive properties**

The product is not explosive.

Lower explosive limits:	3,2 vol. %
Upper explosive limits:	15,3 vol. %
Ignition temperature:	410 °C

**Auto-ignition temperature**

Solid: No data available.

Decomposition temperature: No data available.

**Oxidizing properties**

The product is not self-igniting.

Vapour pressure: (at 20 °C)	0,1 hPa
Density (at 20 °C):	1,125 g/cm <sup>3</sup>

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Water solubility: Completely miscible  
(at 20 °C)

**Solubility in other solvents**

No data available.

Partition coefficient: No data available.

Viscosity / dynamic: No data available.

Viscosity / kinematic: No data available.

Flow time: No data available.

Vapour density: No data available.

Solvent content: 95,00 %

**Other information**

No data available.

**10. Stability and reactivity**

**Conditions to avoid**

No decomposition if used as directed.

**Incompatible materials**

Strong oxidizing agents, Bases.

**Hazardous decomposition products**

Carbon monoxide and carbon dioxide

**11. Toxicological information**

**Information on toxicological effects**

**Acute toxicity**

Harmful if swallowed.

CAS No	Chemical name				
	Route of exposure	Dose	Species	Source	Method
107-21-1	ethanediol, ethylene glycol				
	oral	LD50 mg/kg	5840	Rat	
	dermal	LD50 mg/kg	9530	Rabbit	

**Irritation and corrosivity**

Based on available data, the classification criteria are not met.

**Sensitizing effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

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**

May cause damage to organs through prolonged or repeated exposure. (ethanediol, ethylene glycol)

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**Aspiration hazard**

Based on available data, the classification criteria are not met.

**12. Ecological information**

**Ecotoxicity**

No data available.

**Persistence and degradability**

Liable to easy biological disintegration.

**Bioaccumulative potential**

No data available.

**Mobility in soil**

No data available.

**Other adverse effects**

Not determined.

**Further information**

Do not release undiluted or in higher quantities into the groundwater, sewerage or waters.

**13. Disposal considerations**

**Waste treatment methods**

**Advice on disposal**

Should not be disposed of with household waste. Do not flush into surface water or sanitary sewer system. Where possible recycling is preferred to disposal. The waste code number must be agreed with the disposer / manufacturer / competent authority.

**Contaminated packaging**

Empty containers should be taken for local recycling, recovery or waste disposal. Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of like the product.

Cleaning agent: Water

**14. Transport information**

**Canadian TDG**

**Proper shipping name:** Not regulated.

**Marine transport (IMDG)**

**UN number:** No dangerous good in sense of this transport regulation.

**United Nations proper shipping name:** No dangerous good in sense of this transport regulation.

**Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**Packing group:** No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)**

**UN number:** No dangerous good in sense of this transport regulation.

**United Nations proper shipping name:** No dangerous good in sense of this transport regulation.

**Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**Packing group:** No dangerous good in sense of this transport regulation.

**Environmental hazards**

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ENVIRONMENTALLY HAZARDOUS: no

### 15. Regulatory information

#### Canadian regulations

##### **DSL/NDSL inventory status**

All components are listed on the DSL Inventory.

##### **National Pollutant Release Inventory (NPRI)**

Ethylene glycol : (max. 100%)

##### **WHMIS classification**

WHMIS: D1B & D2A

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.



### 16. Other information

#### **Changes**

Update 2018

#### **Classification for mixtures and used evaluation method according to GHS**

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method
STOT RE 2; H373	Calculation method

#### **Further Information**

Data of sections 4 to 8, as well as 10 to 12, do not necessarily refer to the use and the regular handling of the product (in this sense consult package leaflet and expert information), but to release of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*