

GLYKOSOL N

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Chemical characterization

Mixture of the following substances with non-hazardous admixtures

Hazardous components

CAS No	Chemical name	Quantity
107-21-1	ethanediol, ethylene glycol	80 - 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 (CO₂), 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.

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

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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.

Hints on joint storage

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 limits (ACGIH)

CAS No	Chemical name	ppm	mg/m ³	F/ml	Category	Origin
107-21-1	Ethylene glycol (vapor fraction)	25			TWA (8 h)	ACGIH-2019
		50			STEL (15 min)	ACGIH-2019

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.

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When using do not eat, drink or smoke.
 Avoid contact with skin, eyes and clothing.
 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. (Explosion group IIB)

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.

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Vapour pressure: 0,1 hPa
(at 20 °C)

Density (at 20 °C): 1,125 g/cm³

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.

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STOT-repeated exposure

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

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

Disposal recommendations

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.

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

Environmental hazards

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 2020

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.)