



# Safety Data Sheet

according to WHMIS



## GLYKOSOL N

Print date: 27.02.2014

Product code: 11386-0003

Page 2 of 6

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 any immediate medical attention and special treatment needed**

Treat symptoms.

## **SECTION 5: Firefighting 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

### **Special hazards arising from the substance or mixture**

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.

### **Advice for firefighters**

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.

## **SECTION 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.

## **SECTION 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.

# Safety Data Sheet

according to WHMIS



## GLYKOSOL N

Print date: 27.02.2014

Product code: 11386-0003

Page 3 of 6

### Advice on storage compatibility

Keep away from food, drink and animal feeding stuffs.

### Further information on storage conditions

Keep container tightly closed.

### Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### Control parameters

#### Exposure limits (ACGIH)

CAS No	Chemical name	ppm	mg/m <sup>3</sup>	F/ml	Category	Origin
107-21-1	Ethylene glycol	-	-		TWA (8 h)	TLV
		-	C 100 H		Ceiling	TLV

### 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.

Take off immediately all contaminated clothing.

#### Eye/face protection

Tightly fitting goggles (EN 166)

Eye wash bottle with pure water.

#### Hand protection

Chemical-resistant gloves (EN 374)

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.

## SECTION 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

### Test method

# Safety Data Sheet

according to WHMIS



## GLYKOSOL N

Print date: 27.02.2014

Product code: 11386-0003

Page 4 of 6

### Changes in the physical state

Melting point:	approx. - 30 °C
Initial boiling point and boiling range:	190 °C
Flash point:	116 °C
Lower explosion limits:	3,2 vol. %
Upper explosion limits:	15,3 vol. %
Vapour pressure:	0,1 hPa
(at 20 °C)	
Density (at 20 °C):	1,125 g/cm <sup>3</sup>
Water solubility:	Completely miscible
(at 20 °C)	
Ignition temperature:	410 °C
Explosive properties	The product is not explosive
Oxidizing properties	The product is not self-igniting.

### Other information

No data available.

## SECTION 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.

## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Harmful if swallowed.

#### Acute toxicity

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

#### 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.

#### STOT-single exposure

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

#### Severe effects after repeated or prolonged exposure

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.

# Safety Data Sheet

according to WHMIS



## GLYKOSOL N

Print date: 27.02.2014

Product code: 11386-0003

Page 5 of 6

### Aspiration hazard

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

## SECTION 12: Ecological information

### Toxicity

No data available.

### Persistence and degradability

Liable to easy biological disintegration.

### Bioaccumulative potential

No data available.

### Mobility in soil

No data available.

### Results of PBT and vPvB assessment

Not determined.

### Other adverse effects

Not determined.

### Further information

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

## SECTION 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

## SECTION 14: Transport information

Land transport (ADR/RID); Marine transport (IMDG); Air transport (ICAO); Inland waterways transport (ADN)

### UN number:

Non hazardous material as defined by the transport regulations.

### UN proper shipping name:

Non hazardous material as defined by the transport regulations.

### Transport hazard class(es):

Non hazardous material as defined by the transport regulations.

### Packing group:

Non hazardous material as defined by the transport regulations.

### Environmental hazards

Non hazardous material as defined by the transport regulations.

### Special precautions for user

Non hazardous material as defined by the transport regulations.

### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Non hazardous material as defined by the transport regulations.

### Canadian TDG

#### Proper shipping name:

Not regulated.

# Safety Data Sheet

according to WHMIS



## GLYKOSOL N

Print date: 27.02.2014

Product code: 11386-0003

Page 6 of 6

### Marine transport (IMDG)

#### Other applicable information (marine transport)

Non hazardous material as defined by the transport regulations.

## SECTION 15: Regulatory information

### Canadian regulations

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

#### DSL/NDSL inventory status

All of the components are listed on the DSL Inventory.

#### National Pollutant Release Inventory (NPRI)

: (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.



## SECTION 16: Other information

### Changes

Changes in chapter: 4, 8, 14, 15

### 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.)*