

Material Safety Data Sheet
According to EC-directive 2001/58/EC

Printing date: 19.06.2007

Reviewed on: 19.06.2007

1 Identification of substance

· **Product details**

· **Trade name:** LUBRICANT/COOLANT FOR BREDEL HOSEPUMP 'FOOD GRADE'
NSF Registration No 123204, Category Code H1

· **Application of the substance / the preparation:** Coolant / cutting solution

· **Manufacturer/Supplier:**

Bredel Hose Pumps B.V.
Sluisstraat 7, 7491 GA
P.O.Box 47, 7490 AA
DELDEN, the Netherlands

tel.: +31 74 3770000

fax.: +31 74 3761175

· **Information department:** Internal security department

2 Composition/Data on components

· **Chemical characterization**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 56-81-5 glycerol
EINECS: 200-289-5

50-100%

3 Hazards identification

· **Hazard description:** not applicable

· **Information pertaining to particular dangers for man and environment:**
not applicable

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4 First aid measures

· **General information:** No special measures required.

· **After inhalation:** Not applicable.

· **After skin contact:** Wash with water.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** If symptoms persist consult doctor.

5 Fire fighting measures

· **Suitable extinguishing agents:** Water spray, CO2, extinguishing powder, foam.

· **Special hazards caused by the material, its products of combustion or resulting gases:**

Formation of toxic gases is possible during heating or in case of fire.

· **Protective equipment:** Wear fully protective suit.

6 Accidental release measures

· **Person-related safety precautions:** Not required.

· **Measures for environmental protection:** Dilute with plenty of water.

· **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the material collected according to regulations.

(Contd. on page 2)

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(Contd. of page 1)

7 Handling and storage

- **Handling**
- **Information for safe handling:** No special measures required.
- **Information about protection against explosions and fires:**
No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
Suitable material for receptacles: stainless and carbon steel and plastics.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
This product is hygroscopic.
Protect from humidity and water.

* **8 Exposure controls and personal protection**

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

56-81-5 glycerol
OES Long-term value: 10 mg/m³

57-55-6 propane-1,2-diol
OES Long-term value: 474* 10** mg/m³, 150* ppm
*total (vapour and particulates) **particulates
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
- **Breathing equipment:** Not required.
- **Protection of hands:** Safety gloves recommended.
- **Material of gloves**
Neoprene
Nitrile rubber, NBR
Fluorocarbon rubber (Viton)
- **Penetration time of glove material**
The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
- **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
Butyl rubber, BR
- **Eye protection:** Goggles recommended.

9 Physical and chemical properties

• **General Information**

Form:	Fluid
Colour:	Clear
	Green

(Contd. on page 3)

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(Contd. of page 2)

Odour:	Odourless
· Change in condition	
Boiling point/Boiling range:	260°C
Solidification point:	- 30°C
· Flash point:	> 100°C (ASTM D6450)
· Ignition temperature:	~ 370°C
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	2.6 Vol %
Upper:	11.3 Vol %
· Vapour pressure at 20°C:	1.3 hPa
· Density at 20°C:	~ 1.245 g/cm ³ (ISO 2811-2)
· Solubility in / Miscibility with water:	Fully miscible
· alcohols:	Fully miscible
· pH-value:	Neutral
· Viscosity:	
dynamic at 20°C:	600-700 mPas (ASTM D2196)

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- Materials to be avoided:** oxidizing agents
- Dangerous products of decomposition:** No dangerous decomposition products known

11 Toxicological information

- Acute toxicity**
- LD/LC50 values that are relevant for classification:**
- LD50 Product:** oral: > 10000 mg/kg (rat, literature).
- Primary irritant effect:**
- on the skin:** No irritant effect.
- on the eye:** No irritating effect.
- Sensitization:** No sensitizing effects known.
- Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

(Contd. on page 4)

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(Contd. of page 3)

12 Ecological information

- **Information about elimination (persistence and degradability):**
Easily biodegradable
Biodegradability: > 85%.
- **Aquatic toxicity:**
- **fish toxicity:** LC50: > 5000 mg/l, literature.
- **Behaviour in sewage processing plants:**
In case of judicious use the product does not cause disturbances in water purification plants, according to experiences made so far.
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Classification according VwVwS dated May 1999. (German legislation)

13 Disposal considerations

- **Product**
- **Recommendation:**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue**
For this product, in accordance with the European Waste Catalogue (EWC), a cataloguenumber cannot be given, because the customer has to lay down the purpose first. The cataloguenumber has to be given according to the local waste-removal.
- **Uncleaned packagings**
- **Recommendation:**
With due observance of local regulations, for instance transport to refuse incinerator.
- **Recommended cleansing agent:** Water, if necessary together with cleansing agents.

14 Transport information

- **Transport/Additional information:**
Not dangerous according to the ADR/RID, IMDG and ICAO/IATA specifications.

15 Regulations

- **Markings according to EU guidelines:**
Observe the general safety regulations when handling chemicals
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
- **National regulations**
- **Water hazard class:**
Water hazard class 1 (Self-assessment): slightly hazardous for water.

(Contd. on page 5)

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(Contd. of page 4)

16 Other information

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· * Data compared to the previous version altered.