

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date: 06/19/2007

Reviewed on: 06/19/2007

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 the substances listed below with nonhazardous additions.
- **Dangerous components:**
56-81-5 glycerol 50-100%

3 Hazards identification

- **Hazard description:** not applicable
- **Information pertaining to particular dangers for man and environment**
not applicable
- **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 for USA**
Health = 0
Fire = 1
Reactivity = 0

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.

(Contd. on page 2)

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date: 06/19/2007

Reviewed on: 06/19/2007

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

(Contd. of page 1)

- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the collected material according to regulations.
-

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
PEL 15*; 5** mg/m³
*Total dust **Respirable fraction
- **Additional information:**
The lists that were valid during the creation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
The usual precautionary measures for handling chemicals should be followed.
- **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.

(Contd. on page 3)

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date: 06/19/2007

Reviewed on: 06/19/2007

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

(Contd. of page 2)

9 Physical and chemical properties

· General Information

| | |
|---------------|----------------|
| Form: | Fluid |
| Color: | Clear Green |
| Odor: | Odorless |

· Change in condition

| | |
|-------------------------------------|----------------|
| Boiling point/Boiling range: | 260°C (500°F) |
| Solidification point: | - 30°C (-22°F) |

· Flash point: > 100°C (> 212°F) (ASTM D6450)

· Ignition temperature: ~ 370°C (~ 698°F)

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· Explosion limits:

| | |
|---------------|------------|
| Lower: | 2.6 Vol % |
| Upper: | 11.3 Vol % |

· Vapor pressure at 20°C (68°F): 1.3 hPa (1 mm Hg)

· Density at 20°C (68°F): ~ 1.245 g/cm³ (ISO 2811-2)

· Solubility in / Miscibility with

| | |
|---------------|----------------|
| Water: | Fully miscible |
|---------------|----------------|

| | |
|------------------|----------------|
| Alcohols: | Fully miscible |
|------------------|----------------|

· pH-value: Neutral

· Viscosity:

| | |
|--------------------------------|---------------------------|
| dynamic at 20°C (68°F): | 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.

(Contd. on page 4)

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date: 06/19/2007

Reviewed on: 06/19/2007

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

(Contd. of page 3)

• **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:
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.

12 Ecological information

• **Information about elimination (persistence and degradability):**

Easily biodegradable
Biodegradability: > 85%.

• **Acquatic toxicity:**

• **fish toxicity:** LC50: > 5000 mg/l, literature.

• **Behavior 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 of together with household garbage. Do not allow product to reach sewage system.

• **Uncleaned packagings:**

• **Recommendation:**

With due observance of local regulations, for instance transport to refuse incinerator.

• **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

• **Transport/Additional information:**

Not dangerous according to the ADR/RID, IMDG, ICAO/IATA and DOT specifications.

15 Regulations

• **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.

(Contd. on page 5)

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date: 06/19/2007

Reviewed on: 06/19/2007

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

(Contd. of page 4)

- **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.
 - **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**
 - **Water hazard class:**
Water hazard class 1 (Self-assessment): slightly hazardous for water.
-

16 Other information

Disclaimer of liability: the information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

- *** Data compared to the previous version altered.**
-