

Safety Data Sheet

[in accordance with EC 1907/2006 REACH article 31]

Printing date: 25.01.2018

revision date: 25-01-2018

Section 1 – Identification of the substance / preparation and of the company

- 1.1 Product identifier / product name: LUBRICANT/COOLANT for BREDEL HOSE PUMP
"Genuine Hose Lubricant", 'FOOD GRADE'
NSF Registration No 123204, Category Code H1
- 1.2 Relevant identified use: Lubricant, Coolant
- 1.3 Details of the supplier of the SDS: Watson-Marlow Bredel B.V.
Sluisstraat 7, 7491 GA tel.: +31 74 3770000
P.O. Box 47, 7490 AA fax: +31 74 3761175
DELDEN, The Netherlands
- Information provided by: Tel.: +31 (0)74 3770000
E-mail: hosepumps@wmftg.com
- 1.4 Emergency telephone number: National Poisoning Information Centre – Bilthoven
Tel: +31 (0)30 274 88 88

Section 2 – Hazards identification

2.1 Classification of the substance/mixture:

- According to Directive 67/548/EEC or 1999/45/EC: Not classified
- According to regulation (EC) No 1272/2008 (CLP): Not classified

Information concerning particular hazards for human and the environment: Not applicable

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- 2.2 Classification system: The classification corresponds with current EU listings, but is completed with data from literature and the manufacturer.

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Section 3 – Composition / information on ingredients

3.1 Chemical characterisation: Mixture of substances

Component name	CAS No.	EINECS No.	% w/w	REACH registration no.
Glycerol	56-81-5	200-289-5	50-100	Not applicable
1,2-Propylene glycol	57-55-6	200-338-0	2.5-10	01-2119456809

Remark Glycerol: REACH not applicable according to Annex V of the REACH regulation EC 1907/2006.

Section 4 – First aid measures

General: No special measures required.

Inhalation: Remove victim into fresh air.

Skin contact: Remove contaminated clothing.
Rinse skin immediately with plenty of water (shower if necessary).Eye contact: Remove contact lenses, if present.
Rinse immediately thoroughly and long (at least 15 min.) with plenty of water.Ingestion: Rinse mouth with water.
Seek medical attention.**Section 5 – Firefighting measures**5.1 Suitable extinguishing media: Powder, water spray, foam, CO₂.

Special procedures: Apply water spray or fog to cool nearby equipment. Avoid fire-fighting water to enter environment.

5.2 Special exposure hazards: Fire may release carbon monoxide (CO) and smoke.

5.3 Special protective equipment: Wear fully protective suit.

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Section 6 – Accidental release measures

6.1 Personal precautions:	Not required.
6.2 Environmental precautions:	Dilute with plenty of water.
6.3 Methods for cleaning up:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to regulations.

Section 7 – Handling and storage

7.1 Handling:	
Information for safe handling:	No special measures required.
Information about protection against explosions and fires:	No special measures required.
7.2 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 product from humidity and water.

Section 8 – Exposure / personal protection

8.1 Exposure:	
Component Glycerol with limit values that require monitoring:	Indicative limit: Long-term value: 10 mg/m ³ (mist particulates).
Component 1,2-Propylene glycol with limit values that require monitoring:	Indicative limit: Long-term value: 50 mg/m ³ (mist particulates).

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REACH DNEL (derived no effect level)	For Glycerol no DNEL valid. For 1,2-Propylene Glycol Systemic effects: Long-term value 168 mg/m ³ Local effects: Long-term value 10 mg/m ³
Components with limit values that require monitoring at the workplace:	The product does not contain any relevant quantities of materials with respect to values that should be monitored at the workplace.
Additional information:	The lists valid during the making were used as basis.
8.2 Personal protection:	
General protective measures:	The usual precautionary measures are to be adhered to when handling chemicals.
Breathing equipment:	Not required.
Protection of hands:	Safety gloves recommended.
Safety glove material:	Neoprene. Nitrile rubber (NBR). Fluororubber (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.
Eye protection:	Goggles recommended.
Hygiene measures:	When using chemicals, do not eat, drink or smoke.

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Section 9 – Physical and chemical properties

Form:	Fluid
Colour:	Clear green
Odour:	Odourless
Boiling point, 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 limit: lower	2.6 Vol-%
Explosion limit: upper	11.3 Vol-%
Vapour pressure at 20 °C	1.3 hPa (130 Pa)
Density at 20 °C	~ 1.245 g/cm ³ (ISO 2811-2)
Solubility	
in water:	Fully miscible
in ethanol:	Fully miscible
pH:	Neutral
Viscosity at 20 °C	600-700 mPa·s (ASTM D2196)

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Section 10 – Stability and reactivity

10.1 – 10-4 Thermal decomposition / Conditions to avoid:	No decomposition if used according to specifications.
10.5 Materials to avoid:	Oxidising agents.
10.6 Hazardous decomposition products:	Fire may release carbon monoxide (CO) and smoke.

Section 11 – Toxicological information

11.1 Acute toxicity:	
Oral (LD50):	Glycerol (100%): >12,000 mg/kg (rat, literature). 1,2-Propylene glycol (100%): 20,000 mg/kg (rat, literature).
Primary irritant effect: skin Skin (LD50)	No irritant effect. Glycerol (100%): >10,000 mg/kg (rabbit, literature). 1,2-Propylene glycol (100%): >20,000 mg/kg (rabbit, literature).
Primary irritant effect: eyes:	No irritating effect.
Primary irritant effect: sensitisation:	No sensitising 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.

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Section 12 – Ecological information

12.1 Aquatic toxicity: fish toxicity:	LC50: > 5000 mg/l, literature.
12.2 Information about elimination (persistence and degradability):	Easily biodegradable. Biodegradability: > 85%.
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).

Section 13 – Disposal considerations

13.1 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 catalogue number cannot be given, because the customer has to lay down the purpose first. The catalogue number has to be given according to the local waste-removal.
Uncleaned packaging:	
Recommendation:	With due observance of local regulations, for instance transport to refuse incinerator.
Recommended cleansing agent:	Water, if necessary together with cleansing agents.

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Section 14 – Transport information

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

Section 15 – Regulatory information

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

Section 16 – Other information**Disclaimer**

Disclaimer of liability: the information in this SDS 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 SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.