

Safety Data Sheet
[According to ISO/DIS 11014]

printing date: 18.08.2015

revision date: 18-08-2015

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

Product identifier / product name: LUBRICANT/COOLANT for BREDEL HOSEPUMP
"Genuine Hose Lubricant", 'FOOD GRADE'
NSF Registration No123204, Category Code H1

Relevant identified use: Lubricant, Coolant

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@wmpg.com

Emergency information:: Tel.: +31 (0)74 3770000

Section 2 – Hazards identification

Classification of the substance/mixture:
According to Directive 67/548/EEC or 199/45/EC: not classified
According to regulation (EC) No 1272/2008 (CLP): not classified

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

NFPA-Ratings for USA: Health = 0; Fire = 1; Reactivity = 0

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.

Section 3 – Composition / information on ingredients

Chemical Characterization: Mixture of substances

Ingredient Name	CAS No.	EINECS No.	% w/w	REACH registration number
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

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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 – Fire fighting measures

Suitable extinguishing media	Powder, water spray, foam, carbon dioxide.
Special procedures	Apply water spray or fog to cool nearby equipment. Avoid fire-fighting water to enter environment.
Special exposure hazards	Fire may liberate carbon monoxide (CO) and smoke.
Special protective equipment	Wear fully protective suit.

Section 6 – Accidental release measures

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

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Section 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 product from humidity and water.

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Section 8 – Exposure controls / personal protection

Component Glycerol with limit values that require monitoring at the workplace	Indicative limit: Long-term value: 10 mg/m ³ (mist particulates).
Component 1,2-Propylene Glycol with limit values that require monitoring at the workplace:	Indicative limit: Long-term value: 50 mg/m ³ (mist particulates).
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 Remark: 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.
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: 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.
Eye protection	Goggles recommended.
Hygiene measures	When using, do not eat, drink or smoke.

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Section 9 – Physical and chemical properties

Form	Fluid.
Colour	Clear green.
Odor	Odorless.
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 %.
Explosion limits: high	11.3 Vol %.
Vapour pressure at 20°C	1.3 hPa (130 Pa; 1 mm Hg).
Density at 20°C	~ 1.245 g/cm ³ (ISO 2811-2).
Water solubility	Fully miscible.
Ethanol solubility	Fully miscible.
pH	Neutral.
Viscosity (20°C)	600-700 mPa·s (ASTM D2196).

Section 10 – Stability and reactivity

Thermal decomposition / Conditions to avoid	No decomposition if used according to specifications.
Materials to avoid	Oxidizing agents.
Hazardous decomposition products	Fire may liberate carbon monoxide (CO) and smoke.

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Section 11 – Toxicological information

Acute toxicity:

Oral (LD50)	Glycerol (100%): >12000mg/kg (rat, literature). 1,2 Propylene Glycol (100%): 20000mg/kg (rat, literature).
Primary irritant effect: skin Skin (LD50)	No irritant effect. Glycerol (100%) >10000mg/kg (rabbit, literature). 1,2-Propylene Glycol (100%):>20000mg/kg (rabbit,literature).
Primary irritant effect: skin	No irritant effect.
Primary irritant effect: eyes	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.

Section 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)

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Section 13 – Disposal considerations

Product:

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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.

Section 14 – Transport information

Transport/Additional information

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

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Section 15 -- Regulatory information

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.
TLV (Threshold Limit Values 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 & Health)	None of the ingredients is listed.
OSHA-Ca (Occupational Safety & Health Administration)	None of the ingredients is listed.
Product related hazard information	Observe the general safety regulations when handling chemicals. The product is not subject to identification regulations according to directives on hazardous materials.
Water hazard class	Water hazard class 1 (Self-assessment): slightly hazardous for water.

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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.