

Safety Data Sheet
[According to OSHA 1910.1200 App D]

printing date: 26.02.2020

revision date: 26-02-2020

SECTION 1: Identification

- (a) **Product identifier / product name:** LUBRICANT/COOLANT for BREDEL HOSEPUMP
"Genuine Hose Lubricant", 'FOOD GRADE'
NSF Registration No123204, Category Code H1
- (b) **Other means of identification:** Not applicable
- (c) **Recommended use:** Lubricant, Coolant for hose pumps
Restrictions on use: -
- (d) **Manufacturer:** Watson-Marlow Bredel B.V.
Sluisstraat 7, 7491 GA DELDEN – The Netherlands
P.O.Box 47, 7490 AA DELDEN – The Netherlands
Tel.: +31 (0)74 3770000
E-mail: hosepumps@wmpg.com
- (e) **Emergency phone number:** Tel.: 978-658-6168
Hours of operation is 8:30am to 5:00pm EST

SECTION 2: Hazards identification

- (a) **Classification of the substance/mixture:**
Not a hazardous substance or mixture
- (b) **GHS Label elements, including precautionary statements:**
Not a hazardous substance or mixture
- (c) **Hazards not otherwise classified:** none

SECTION 3: Composition / information on ingredients**(a) Chemical Characterization: Mixture of substances**

Ingredient Name	CAS No.	Classification	% w/w
Glycerol	56-81-5	-	50-100
1,2-Propylene Glycol	57-55-6	-	2.5-10

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SECTION 4: First aid measures**(a) Description of first aid measures**

General advice	Move out of dangerous area.
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
Skin contact	Remove contaminated clothing. Wash off with soap and plenty of water.
Eye contact	Flush eyes with water as a precaution.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water.

(b) Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2b) and/or in section 11.

(c) Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Fire fighting measures

(a) Suitable extinguishing media: Powder, water spray, foam, carbon dioxide

(b) Specific hazards: Carbon oxides as a combustion product

(c) Special protective equipment for fire-fighters:

Wear self-contained breathing apparatus for firefighting if necessary

SECTION 6: Accidental release measures**(a) Personal precautions, protective equipment and emergency procedures:**

Avoid breathing vapors, mist or gas. For personal protection see section 8

(b) Environmental precautions

No special environmental precautions required

(c) Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal

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SECTION 7: Handling and storage

- (a) Precautions for safe handling:**
No special measures required
- (b) Conditions for safe storage, including incompatibilities**
This product is hygroscopic. Protect from humidity and water

SECTION 8: Exposure controls / personal protection

(a) Components with workplace control parameters

Glycerol CAS-No. 56-81-5	TWA 10.000.000 mg/m ³ (USA. ACGIH Treshold Limit Value) TWA 15.000.000 mg/m ³ (USA. Occupational Exposure Limits (OSHA) Table Z-1 Limits for air contaminants.) TWA 5.000.000 mg/m ³ (USA. Occupational Exposure Limits (OSHA) Table Z-1 Limits for air contaminants.) PEL 10 mg/m ³ (California permissible exposure limits for chemical contaminants (Title 8, Article 107) PEL 5 mg/m ³ (California permissible exposure limits for chemical contaminants (Title 8, Article 107)
1,2-Propylene Glycol CAS-No. 57-55-6	TWA 10 mg/m ³ (USA. Workplace Environmental Exposure Levels (WEEL))

- (b) Appropriate engineering controls:** General Industrial hygiene practice
- (c) Individual protection measures**
 - Respiratory protection:** For nuisance exposures use type OV/AG (US) or ABEK (EU EN 14387) respirator cartridges.
 - Skin protection:** Handling with gloves recommended.
Suitable materials: Neoprene, Nitrile rubber, Fluorocarbon rubber (Viton)
 - Eye protection:** Ues equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

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SECTION 9: Physical and chemical properties

(a) Appearance	Fluid, clear green
(b) Odor:	Odorless
(c) Odor threshold:	Not applicable
(d) pH:	Neutral
(e) Melting point / freezing point:	-30 °C (-22 °F)
(f) Initial boiling point / boiling range:	260 °C (500°F)
(g) Flash point:	>100 °C (>212 °F) (ASTM D6450)
(h) Evaporation rate:	No data available
(i) Flammability (solid, gas):	No data available
(j) Upper / lower explosion limits:	2.6 Vol % / 11.3 Vol%
(k) Vapor pressure:	1.3 hPa (130 Pa; 1 mm Hg)
(l) Vapor density at 20°C:	~ 1.245 g/cm ³ (ISO 2811-2)
(m) Relative density:	~ 1.245 (heavier than air)
(n) Solubility:	Fully miscible with water and ethanol
(o) Partition coefficient n-octanol/water:	No data available
(p) Auto-ignition temperature:	~ 370 °C (~698 °F)
(q) Decomposition temperature:	No data available
(r) Viscosity:	600-700 mPa·s (ASTM D2196)

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SECTION 10: Stability and reactivity

- (a) **Reactivity:** No data available
- (b) **Chemical stability:** Stable under recommended storage conditions
- (c) **Possibility of hazardous reactions:** No data available
- (d) **Conditions to avoid:** No data available
- (e) **Incompatible materials:** Strong bases, Strong oxidizing agents
- (f) **Hazardous decomposition products:** Under fire conditions: carbon oxides

SECTION 11: Toxicological information

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	Mild eye irritation (Rabbit, 1,2-propylene glycol).
Sensitization:	No sensitizing effects known.
Additional toxicological information:	The product is not subject to classification as a hazardous substance. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.
Reproductive toxicity:	No data available
Carcinogenicity:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

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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)

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.
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.
TSCA	All chemical substances in this mixture are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

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

Watson-Marlow, Inc.
37 Upton Dr.
Wilmington, MA 01887, USA

Disclaimer

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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.
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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.