



VERDERLUBE

Special lubricant for Verderflex®

ACCORDING TO DIRECTIVE 91/155/EC EDITION FEBRUARY 2011
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VERDER
passion for pumps

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Verderlube is the lubricant / coolant used with the Verderflex® range of and other peristaltic or hose pumps

WARNING

Used lubricant may become contaminated with pumped product, also verify precautions and advice against relevant product information

Verderlube is a food grade product in accordance with FDA CFR 21 part 178 :3570 Lubricant with Incidental Food Contact and complies with EC Regulation 1935/2004

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING

1.1 Identification of Substance or Preparation

Product name	Verderlube
Chemical identification	Glycerine based blend
Cas number	Preparation
Use	Food Grade - Pump Lubricant / Coolant

1.2 Company Identification

Producer / supplier	Verder Limited Unit 3 California Drive Castleford WF10 5QH Great Britain
Tel number	+44 (0) 1924 221 020
Fax number	+44 (0) 113 246 5649
Emergency tel number	
For advice on this product call:	+44 (0) 01924 221 020

2 COMPOSITION / INFORMATION ON INGREDIENTS

- This product contains no substances classified as hazardous to health in concentrations that should be taken into account according to EC directive 91/155/EC
- Main constituent may cause irritation to eyes and skin.
- Irritating to respiratory system in the form of a mist.

3 HAZARDOUS IDENTIFICATION

This product is not classified as hazardous according to EC directive 91/155/EC

WARNING

- May cause irritation to eyes and skin.
- Irritating to respiratory system in the form of a mist.
- Contact with hot product may cause burns.
- Product is a lubricant and in the event of untreated spillage, can cause external surfaces to become slippery when wet

4 FIRST AID MEASURES

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4.1 Ingestion

- Give 500 ml of Water to drink
- DO NOT INDUCE VOMITING!
- Except as a deliberate act, the ingestion of large amounts of product is unlikely. If this should occur, do not induce vomiting, obtain medical advice.

4.2 Inhalation

- If inhalation of fumes from overheated material causes irritation to the nose or throat, or coughing, remove to fresh air. Obtain medical advice if any symptoms persist.

4.3 Skin Contact

- Wash thoroughly with mild soap and water as soon as reasonably practical.
- Remove heavily contaminated clothing and wash underlying skin

4.4 Eye Contact

- Wash eye thoroughly with copious amounts of water, ensuring eyelids are held open.
- Obtain medical advice if any pain or redness develops or persists.

5 FIRE FIGHTING MEASURES

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5.1 Extinguishing Media

- Alcohol resistant foam, dry powder or water fog

5.2 Extinguishing Media To Avoid

- Do not use water jets

5.3 Unusual Fire and Explosion Hazards

- Avoid spraying directly into storage containers because of danger of boil over

5.4 Special Protective Equipment for Fire fighters

- Protective clothing and approved breathing apparatus when in close proximity of fire
- During burning, poisonous acrolein may be found.

6 ACCIDENTAL RELEASE MEASURES

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6.1 Personal Protection

- Wear goggles and gloves. If spillage has occurred in a confined space, ensure sufficient ventilation and check that a safe, breathable atmosphere is present before entry.

6.2 Environmental Precautions

- Protect drains from spills and prevent entry of product. Treated effluent may be biodegradable. Recover cleaning water for later treatment..

6.3 Methods for Cleaning Up

Contain and recover liquid, soak up with absorbent material (sand, peat, etc.) or contain and shovel into drums or containers. Remove residue by spraying with water.

7 HANDLING AND STORAGE

Used lubricant may become contaminated with pumped product, also verify precautions and advice against relevant product information

7.1 Handling

- Contact with hot product causes burns.
- Avoid contact with eyes. If splashing is likely to occur wear a full visor or chemical goggles to appropriate local national standards.
- Avoid frequent or prolonged skin contact with fresh or used product.
- Wash hands thoroughly after use.

7.2 Storage

Store under cover away from moisture and sources of ignition. Do not overheat in storage. The lubricant/coolant is hygroscopic; keep the container tightly closed.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Personal Protection

- Contact with hot product causes burns.
- Avoid contact with eyes. If splashing is likely to occur wear a full visor or chemical goggles to appropriate local national standards.
- Avoid frequent or prolonged skin contact with fresh or used product.
- Wash hands thoroughly after use.

8.2 Occupational Exposure Limits

- Ensure good ventilation.
- Threshold limit Not tested

9 PHYSICAL AND CHEMICAL PROPERTIES

Form	Viscous liquid
Colour	Blue. Colourless may be supplied to special order
Odour	Odourless
Solidification point	-40°C / -40°F approx.
Flash point	177°C / 350°F approx. (COC: ISO 2592)
Boiling point	290°C / 554°F
Solubility in water	Miscible (at 20°C)
Vapour pressure	(20°C / 68°F) <0.01 mBar (100°C / 210°F) <1 mBar
Viscosity	700 mPaS approx. @ 20°C / 68°F
pH	7 approx.
Auto ignition temperature	400°C / 750°F approx.
Explosion limits	Not established
Density (20°C/68°F)	1245 kg/m ³ approx.
Behaviour with water at 20°C	Hygroscopic

10 STABILITY AND REACTIVITY

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10.1 Conditions to Avoid

Preparation is stable and unlikely to react in a hazardous manner under normal conditions of use.

- No special precautions other than good housekeeping of chemicals.
- Hazardous polymerisation reactions are unlikely to occur.
- This material is combustible.

10.2 Materials to Avoid

- Avoid contact with strong oxidizing agents, nitrogenous compounds and strong acids: risk of violent and or explosive reactions with pure compounds.

10.3 Hazardous Decomposition Products

- During burning, poisonous acrolein may be found – very toxic by inhalation.
- Incomplete combustion / thermal decomposition will generate smoke, carbon dioxide and hazardous gases, including carbon monoxide.

11 TOXICOLOGICAL INFORMATION

Used lubricant may become contaminated with pumped product, also verify precautions and advice against relevant product information

11.1 Toxicity Data

- General purpose food grade lubricant /coolant
- LD₅₀ oral (rat) 12600 mg/kg (not harmful) *

11.2 Significant Data with Possible Relevance to Human Health

- Eyes - Unlikely to cause more than transient stinging or redness if accidental eye contact occurs
- Skin - Unlikely to cause harm to the skin
- Ingestion - Unlikely to cause harm if accidentally swallowed in small doses, although larger quantities should be avoided
- Inhalation - At ambient temperatures this product will be unlikely to present an inhalation hazard

12 ECOLOGICAL INFORMATION

Used lubricant may become contaminated with pumped product, also verify precautions and advice against relevant product information

12.1 Mobility

- Spillage may penetrate the soil; unused preparation is food grade and is inherently harmless.

12.2 Persistence and Degradability

- This preparation is inherently biodegradable

12.3 Bio Accumulative Potential

- There is no evidence to suggest that bioaccumulation will occur.

12.4 Aquatic Toxicity

- Verderlube is miscible in water. It is not considered harmful in low concentrations.
Water pollution reactors gO₂ /g
BOD⁵: 0,87 (NEN 3235-5.4)
BOD¹: 1.16 (NEN 3235-5.3)
Fish: goldfish LC50 (24h):>5000 mg/l (modified ASTM D1345)
- The aquatic toxicity (TLM₉₆) is >1000mg/l, which is defined by NIOSH as an insignificant hazard.

13 DISPOSAL CONSIDERATIONS

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13.1 Waste Disposal Method(s)

- Where possible, arrange for unused product to be recycled.
- Disposal of preparation should be via an authorized person/licensed waste disposal contractor in accordance with local regulations.
- Incineration may be carried out under controlled conditions provided that local regulations are met.
- Dispose of preparation and container carefully and responsibly. Do not dispose of preparation near ponds, ditches, down drains onto soil.

14 TRANSPORT INFORMATION

- Not classified as dangerous for transport (RID/ADR-ADNE-IATA-IMDG-MARPOL-ICAO)

15 REGULATORY INFORMATION

- Classification - Classification not required

16 OTHER INFORMATION

- Employees of the Verder group have not experienced any harmful effect during normal handling and production.
- Verderlube® and Verderflex® are registered trademarks.

The information contained in this sheet is based on our knowledge of the preparation at its delivery date and that the information contained herein is current as of the date of this data sheet. Since the use of this information and of these opinions and the conditions of use of this preparation is not within the control of Verder Limited, it is the user's obligation to determine the conditions of safe use of the preparation.



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