

# VERDERFLEX

## VERDERLUBE TECHNICAL, PRODUCT AND HAZARD DATA SHEET

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

### Chemical Constitution

1, 2, 3-Propanetriol (C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>) 1,2-Propylene Glycol  
CN<sub>3</sub>CHOH-CH<sub>2</sub>OH, indigo blue E132

Form: liquid  
Colour: blue  
Odour: odourless  
Food grade

### Physical and Safety Data

Solidification point		-40°C / -40°F approx.
Density	(20°C / 68°F)	1245 kg/m <sup>3</sup> approx.
Vapour pressure	(20°C / 68°F )	<0.01 mbar
	(100°C / 210°F)	<1mbar
Viscosity	(20°C / 68°F)	700 mPas approx.
Solubility in water (20°C)		miscible
pH value		7 approx.
Flash point		177°C / 350°F approx. (COC: ISO 2592)
Auto ignition temperature		400°C / 750°F approx.
Explosion limits		not established
Thermal decomposition		-
Hazardous decomposition products		-
Hazardous reactions		-
Incompatible substances		-

### Transport

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

### Regulations

On the basis of the data directly available, lubricant / coolant is not a dangerous substance within the meaning of Council Directive 79/831/EEC (classification, packaging and labeling of dangerous substances). One should however observe the usual precautionary measures for handling.

### Protective Measures, Storage and Handling

Technical Protective Measures;	<i>The lubricant/coolant is hygroscopic; keep the container tightly closed</i>
Personal Protective Equipment;	<i>Normal precautions should be observed for handling all chemicals</i>
Industrial Hygiene;	<i>Good industrial hygiene should be followed</i>
Protection against Fire and Explosion	<i>Normal protective measures as for organic chemical products with flash points of above 100°C</i>
Disposal	<i>Special deposit (product is miscible with water)</i>

### Measures in case of Fires and Accidents

After Spillage / Leakage / Gas Leakage;	<i>Soak up with absorbent material (sand, peat, etc.) or contain and shovel into drums or containers. Remove residue by spraying with water</i>
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Extinguishing Media	<i>Carbon dioxide, water (mist), halones, dry powder, alcohol resistant foam</i>
First Aid	<i>Normal safety precautions; if the product is thought to have caused personal injury, immediate medical advice and assistance should be sought</i>
Further Information	<i>During burning, poisonous acrolein may be found</i>

## Information on Toxicity

LD50 oral (rat)	12600 mg/kg (not harmful) *
Skin irritation (rabbit)	low irritant **
Eye irritation (rabbit)	low irritant **
* =	classification: Council Directive 79/831/EEC Annex VI
** =	Sax: Dangerous Properties of Industrial Materials (1984)

## Information on Ecological Effects

Completely biodegradable	
Water pollution reactors gO <sub>2</sub> /g	BOD <sup>5</sup> : 0,87 (NEN 3235-5.4)
	BOD <sup>1</sup> : 1.16 (NEN 3235-5.3)
Fish: goldfish LC50 (24h):	>5000 mg/1 (modified ASTM D1345)
The aquatic toxicity (TLm96) is	>1000mg/1, which is defined by NIOSH as an insignificant hazard

## Further Information

Employees of VERDER have not experienced any harmful effect during normal handling and production

The information contained in this sheet is based on our knowledge of the product at its delivery date.

## Datasheet Issued by –

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