



**VERDERFLEX<sup>®</sup>**

# Special Grease for Rollit Peristaltic Hose Pump

Safety, Technical, Product  
and Hazard Data Sheet

Version 1.0v-10/2016

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According to Regulation (EC) No. 1907/2006 (Reach)

**CE** **VERDER**  
passion for pumps

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## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product Identifier

Product Name	Verderflex
Chemical Identification	Special Grease
Cas Number	Preparation
Use	Special Grease for Rollit Peristaltic Hose Pump

### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified Uses	Surface Treatment, Assembling Aid, Release Agent, Damperfluid
Uses advised against	No Information Available.

### 1.3 Details of the Supplier of the Safety Data Sheet

Producer/Supplier	Verder Limited United 3 California Drive Castleford WF10 5QH UK
Tel Number	+44 (0) 1924 221 020
Fax Numer	+44 (0) 1132 465 649
Emergency Tel Number	
For advice on this product call	+44 (0) 1924 221 020

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the Substance or Mixture

This product is not classified as hazardous according to Regulation (EC) No. 1272/2008 [CLP]

Classification Procedure	Calculation Method
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### 2.2 Label Elements

None

### 2.3 Other Hazards

No information available  
Other adverse effects  
Special danger of slipping by leaking/spilling product

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Mixtures

Hazardous ingredients	None
Further ingredients	POLYDIMETHYLSILOXANE

## 4. FIRST AID MEASURES

### 4.1 Description of First Aid Measures

- ▶ **General Information:** Change contaminated, saturated clothing. When in doubt or if symptoms are observed, get medical advice.
  
- ▶ **Following Inhalation:** Provide fresh air.
- ▶ **In case of skin contact:** After contact with skin, wash immediately with plenty of water and soap.
- ▶ **After eye contact:** Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.
- ▶ **After ingestion:** Do NOT induce vomiting. Rinse mouth thoroughly with water.
- ▶ **Self-protection of the first aider:** No special measures are necessary.
- ▶ **Information to physician Treatment:** Treat symptomatically.

### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed

No information available

### 4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

None

## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing Media

- ▶ **Suitable extinguishing media:** Carbon dioxide (CO<sub>2</sub>) alcohol resistant foam Water spray jet Extinguishing powder Sand
- ▶ **Unsuitable extinguishing media:** None

### 5.2 Special Hazards Arising from the Substance or Mixture

No information available.

### 5.3 Advice for Firefighters

In case of fire toxic gases may be formed.

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### 5.4 Additional Information

None

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Take the precautions customary when handling chemicals. Use personal protection equipment. Special danger of slipping by leaking/spilling product.

### 6.2 Environmental Precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

### 6.3 Methods and Material for Containment and Cleaning up

- ▶ **For cleaning up:** Take up mechanically. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid or universal binding agents).

### 6.4 Reference to Other Sections

None

### 6.5 Additional Information

No data available

## 7. HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling

Avoid contact with skin and eyes.

- ▶ **Protective measures:** Use only in well-ventilated areas. Do not breathe gas/fumes/vapour/spray.
- ▶ **Measures to prevent fire:** Keep away from sources of ignition. No smoking. Take precautionary measures against static discharges.

### 7.2 Conditions for Safe Storage, Including any Incompatibilities

- ▶ **Requirements for storage rooms and vessels:** Keep/Store only in original container.
- ▶ **Hints on joint storage:**
- ▶ **Storage class (TRGS 510):** 10
- ▶ **Further information on storage conditions:** Protect containers against damage.

### 7.3 Specific End Use(s)

None

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters

- ▶ **Occupational exposure limit values:** Does not contain substances above concentration limits fixing an occupational exposure limit.
- ▶ **Biological limit values:** No data available
- ▶ **DNEL/DMEL and PNEC values:** No data available

### 8.2 Exposure Controls

#### Personal protection equipment

- ▶ **Eye/face protection:**
- ▶ **Skin protection:**
- ▶ **Hand protection:**

Eye glasses with side protection.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

**Suitable material:**  
**Breakthrough time**  
**(maximum wearing time):**

Butyl caoutchouc (butyl rubber) NBR (Nitrile rubber).

480 minutes. Check leak tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Respiratory protection:**  
**General health and safety measures:**

Usually no personal respirative protection necessary. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing. Wash hands before breaks and after work. Keep away from food, drink and animal feeding stuffs.

### 8.3 Additional Information

No data available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on Basic Physical and Chemical Properties

▶ <b>Appearance</b>				
<i>Physical state:</i>	Paste			
<i>Colour:</i>	Different According to Colour			
▶ <b>Odour:</b> Light				
▶ <b>Safety relevant basis data</b>				
<i>Solidifying point:</i>	(1 bar/1 Pa)		No data available	Brookfield
<i>Melting point/melting range:</i>			No data available	
<i>Freezing point:</i>			No data available	
<i>Initial boiling point and boiling range:</i>		>	315	°C
<i>Decomposition temperature:</i>			No data available	
<i>Flash point:</i>		>	250	°C
<i>Ignition temperature:</i>			No data available	
<i>Lower explosion limit:</i>			No data available	
<i>Upper explosion limit:</i>			No data available	
<i>Vapour pressure:</i>	(50 °C)		No data available	
<i>Density:</i>	(20 °C)	ca.	0,97	g/cm <sup>3</sup>
<i>Solvent separation test:</i>	(20 °C)		No data available	
<i>Fat solubility:</i>	(20 °C)		No data available	
<i>Solubility in water:</i>			Insoluble	
<i>PH:</i>	(20 °C)		No data available	
<i>log P O/W:</i>			No data available	
<i>Viscosity:</i>	(20 °C)		No data available	
<i>Odour threshold:</i>			No data available	
<i>Relative vapour density:</i>	(20 °C)		No data available	
<i>Evaporation rate:</i>			No data available	
<i>Vapourisation rate:</i>			No data available	
<i>Flammable solids:</i>			No data available	
<i>Flammable gases:</i>			No data available	
<i>Oxidising liquids:</i>			No data available	
<i>Explosive properties:</i>			No data available	
<i>Corrosive to metals:</i>			No data available	

### 9.2 Other information

No data available

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No dangerous reactions known.

### 10.2 Chemical Stability

When using the recommended storage and handling conditions (→ 7. Handling and Storage).

### 10.3 Possibility of Hazardous Reactions

No dangerous reactions known.

### 10.4 Conditions to Avoid

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges.

### 10.5 Incompatible Materials

No information available.

### 10.6 Hazardous Decomposition Products

Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

### 10.7 Additional Information

No data available



## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects

▶ **Acute effects**

**Acute oral toxicity**

<b>Parameter:</b>	LD50 ( POLYDIMETHYLSILOXANE )
<b>Exposure route:</b>	Oral
<b>Species:</b>	Rat
<b>Effective dose:</b>	> 5000 mg/kg

**Acute dermal toxicity**

<b>Parameter:</b>	LD50 ( POLYDIMETHYLSILOXANE )
<b>Exposure route:</b>	Dermal
<b>Species:</b>	Rabbit
<b>Effective dose:</b>	> 10000 mg/kg

**Acute inhalation toxicity**

<b>Parameter:</b>	LC50 ( POLYDIMETHYLSILOXANE )
<b>Exposure route:</b>	Inhalation
<b>Species:</b>	Rat
<b>Effective dose:</b>	> 535 mg/kg
<b>Exposure time:</b>	1 h

▶ **Specific symptoms in animal studies**

No data available

▶ **Irritant and corrosive effects**

**Primary irritation to the skin**

No data available

**Irritation to eyes**

No data available

**Irritation to respiratory tract**

No data available

▶ **Sensitisation**

**In case of skin contact**

No data available

**In case of inhalation**

No data available

▶ **Repeated dose toxicity (subacute, subchronic, chronic)**

No data available

▶ **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

**Carcinogenicity**

No data available

**Germ cell mutagenicity**

No data available

**Reproductive toxicity**

No data available

**STOT-single exposure**

No data available

**STOT-repeated exposure**

No data available

**Aspiration hazard**

No data available



## **11.2 Toxicokinetics, Metabolism and Distribution**

No data available

## **11.3 Other Adverse Effects**

No data available

## **11.4 Additional Information**

No data available

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

▶ **Aquatic toxicity**

**Acute (short-term) fish toxicity**

**Parameter:** LC0 (POLYDIMETHYLSILOXANE)

**Species:** Leuciscus idus (golden orfe)

**Evaluation parameter:** Acute (short-term) fish toxicity

**Effective dose:** 200 mg/l

**Exposure time:** 96 h

**Acute (short-term) daphnia toxicity**

No data available

**Acute (short-term) algae toxicity**

No data available

**Bacteria toxicity**

**Parameter:** EC0 (POLYDIMETHYLSILOXANE)

**Species:** Pseudomonas putida

**Effective dose:** > 10000 mg/l

▶ **Terrestrial toxicity**

No data available

**Toxicity to terrestrial plants**

No data available

▶ **Effects in sewage plants**

Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge.

### 12.2 Persistence and Degradability

▶ **Abiotic degradation**

The product can be eliminated from water by abiotic processes, e.g. adsorption on activated sludge.

▶ **Biodegradation**

Not readily biodegradable (according to OECD criteria).

### 12.3 Bioaccumulative Potential

No indication of bioaccumulation potential.

### 12.4 Mobility in Soil

No data available

### 12.5 Results of PBT and vPvB Assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

### 12.6 Other Adverse Effects

No data available

### 12.7 Additional Ecotoxicological Information

No data available

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

## 14. TRANSPORT INFORMATION

### 14.1 UN Number

No dangerous goods in sense of this transport regulation.

### 14.2 UN Proper Shipping Name

No dangerous goods in sense of this transport regulation.

### 14.3 Transport Hazard Class(es)

No dangerous goods in sense of this transport regulation.

### 14.4 Packing Group

No dangerous goods in sense of this transport regulation.

### 14.5 Environmental Hazards

No dangerous goods in sense of this transport regulation.

### 14.6 Special Precautions for User

None

## 15. REGULATORY INFORMATION

### 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

▶ **National regulations**

**Water hazard class (WGK)**

**Class:** 1 (Slightly hazardous to water) Classification according to VwVwS

▶ **Additional information**

**Substance/product listed in the following inventories**

TSCA EINECS/ELINCS DSL/NDL ENCS (Class 1 and 2) AICS KECL IECSC PICCS

### 15.2 Chemical Safety Assessment

No information available.

## 16. Other Information

### 16.1 Indication of Changes

02. Classification of the substance or mixture · 02. Label elements · 03. Further ingredients

### 16.2 Abbreviations and Acronyms

<b>REACH</b>	- Registration, Evaluation, Authorisation of Chemicals
<b>GHS</b>	- Globally Harmonised System of Classification and Labeling
<b>CLP</b>	- Classification, Labeling and Packaging of Substances and Mixtures
<b>CAS</b>	- Chemical Abstract Service
<b>TWA</b>	- Time Weighted Average
<b>DNEL/DMEL</b>	- Derived No Effect Level
<b>PNEC</b>	- Predicted No Effect Concentration
<b>STP</b>	- Sewage Treatment Plant
<b>TRGS</b>	- Technical Rules for Hazardous Substances (German Regulations)
<b>STEL</b>	- Short-term Exposure Limit
<b>TLV</b>	- threshold limit value
<b>AGW</b>	- Occupational threshold limit value
<b>RCP</b>	- Reciprocal Calculation Procedure
<b>ATE</b>	- Acute Toxicity Estimate
<b>MAK</b>	Threshold limit values Germany
<b>LD50</b>	- Lethal Dose, 50%
<b>LC50</b>	- Lethal concentration, 50%
<b>OECD</b>	- Organization for Economic Cooperation and Development
<b>NOAEL</b>	- No Observed Adverse Effect Level
<b>EC50</b>	- half maximal effective concentration
<b>NOEC</b>	- No Observed Effect Concentration
<b>PBT</b>	- Persistent, Bioaccumulative, Toxic
<b>vPvB</b>	- very Persistent, very Bioaccumulative
<b>ADR/RID</b>	- European Agreement concerning the International Carriage of Dangerous Goods by Road (Accord européen relatif au transport international des marchandises Dangereuses par Route)/Regulations Concerning the International Transport of Dangerous Goods by Rail (Règlement concernant le transport International ferroviaire de marchandises Dangereuses)
<b>IMDG</b>	- International Maritime Dangerous Goods Code
<b>ICAO</b>	- International Civil Aviation Association
<b>IATA</b>	- International Air Transport Association
<b>VwVws</b>	- German administrative regulation on the classification of substances hazardous to water into water hazard classes

### 16.3 Key Literature References and Sources for Data

None

### 16.4 Relevant H- and EUH-phrases (Number and Full Text)

None

### 16.5 Training Advice

None

### 16.6 Additional Information

Non