



VERDERFLEX[®]

Special Grease for Rollit Peristaltic Hose Pump

Safety, Technical, Product
and Hazard Data Sheet

Version 1.0v-10/2016

Print-No. 01



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 (CO₂) 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

▶ Appearance				
<i>Physical state:</i>	Paste			
<i>Colour:</i>	Different According to Colour			
▶ Odour: Light				
▶ Safety relevant basis data				
<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 ³
<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

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

Acute dermal toxicity

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

Acute inhalation toxicity

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

REACH	- Registration, Evaluation, Authorisation of Chemicals
GHS	- Globally Harmonised System of Classification and Labeling
CLP	- Classification, Labeling and Packaging of Substances and Mixtures
CAS	- Chemical Abstract Service
TWA	- Time Weighted Average
DNEL/DMEL	- Derived No Effect Level
PNEC	- Predicted No Effect Concentration
STP	- Sewage Treatment Plant
TRGS	- Technical Rules for Hazardous Substances (German Regulations)
STEL	- Short-term Exposure Limit
TLV	- threshold limit value
AGW	- Occupational threshold limit value
RCP	- Reciprocal Calculation Procedure
ATE	- Acute Toxicity Estimate
MAK	Threshold limit values Germany
LD50	- Lethal Dose, 50%
LC50	- Lethal concentration, 50%
OECD	- Organization for Economic Cooperation and Development
NOAEL	- No Observed Adverse Effect Level
EC50	- half maximal effective concentration
NOEC	- No Observed Effect Concentration
PBT	- Persistent, Bioaccumulative, Toxic
vPvB	- very Persistent, very Bioaccumulative
ADR/RID	- 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)
IMDG	- International Maritime Dangerous Goods Code
ICAO	- International Civil Aviation Association
IATA	- International Air Transport Association
VwVws	- 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