



**VERDERFLEX®**

# Special Grease - NSF for Rollit Peristaltic Hose Pump

Safety, Technical, Product  
and Hazard Data Sheet

Version 1.3v-07/2024

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

Trade name	Verderflex Special Grease NSF
Registration number (REACH)	not relevant (mixture)Preparation
Use	Special Grease NSF 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
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### 1.3 Details of the Supplier of the Safety Data Sheet

Producer/Supplier	Ponndorf Gerätetechnik GmbH Leipziger Straße 374 34123 Kassel Germany
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Tel Number	+49 (0) 561 511 390
Fax Numer	+49 (0) 561 511 398 8
Emergency Tel Number	
For advice on this product call	+49 (0) 561 511 390

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the Substance or Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

This mixture does not meet the criteria for classification in accordance with Regulation No. 1272/2008/EC

### 2.2 Label Elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]  
not required

### 2.3 Other Hazards

Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB  $\geq 0,1\%$

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Not relevant (mixture)

#### 3.2 Mixtures

##### Description of the mixture

This product does not meet the criteria for classification in any hazard class according to GHS.

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

##### General notes

Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. Remove victim out of the danger area. Do not leave affected person unattended. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

##### Following Inhalation

Remove casualty to fresh air and keep warm and at rest. In case of accident or if you feel unwell, seek medical advice immediately (show the label or safety data sheet where possible). Provide fresh air.

##### Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. In case of skin reactions, consult a physician.

##### Following eye contact

Rinse immediately carefully and thoroughly with eye shower or water. If eye irritation persists: Get medical advice/attention.

##### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

#### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

#### 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, Water mist, BC-powder, Sand

**Unsuitable extinguishing media**

Water jet

### 5.2 Special hazards arising from the substance or mixture

**Hazardous combustion products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Formaldehyde

### 5.3 Advice for firefighters

In case of fire toxic gases may be formed. In case of fire and/or explosion do not breathe fumes. Wear self-contained breathing apparatus. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Collect contaminated firefighting water separately.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel**

Remove persons to safety. Special danger of slipping by leaking/spilling product.

**For emergency responders**

Use personal protection equipment. Special danger of slipping by leaking/spilling product. Wear breathing apparatus if exposed to vapours/dust/spray/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Prevent spread over a wide area (e.g. by containment or oil barriers). Retain contaminated washing water and dispose of it.

### 6.3 Methods and material for containment and cleaning up

**Advice on how to contain a spill**

Take up mechanically, Covering of drains

**Advice on how to clean up a spill**

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

**Appropriate containment techniques**

Use of adsorbent materials

**Other information relating to spills and releases**

Special danger of slipping by leaking/spilling product. Place in appropriate containers for disposal. Ventilate affected area.

## 6.4 Reference to Other Sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10

## 7. HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling

**Recommendations**

- Measures to prevent fire as well as aerosol and dust generation

Use only in well-ventilated areas. Do not breathe gas/fumes/vapour/spray. Vapours/aerosols must be exhausted directly at the point of origin. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge.

**Advice on general occupational hygiene**

Avoid contact with skin and eyes. Wash hands after use. Keep away from food, drink and animal feeding stuffs. Never place chemicals in containers that are normally used for food or drink.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep in a cool, well-ventilated place. Keep only in original container.

**Managing of associated risks**

- Flammability hazard

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

**Storage class (LGK)****TRGS 510**

LGK 10 (combustible liquids)

### 7.3 Specific end use(s)

No information available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

**Occupational exposures limit values (Workplace Exposures Limits)**

Does not contain substances above concentration limits fixing an occupational exposure limit.

## 8.2 Exposure controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. Personal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

### Appropriate engineering controls

Open windows, door, to allow sufficient ventilation. If this is not possible employ a fan to increase air exchange.

### Individual protection measures (personal protective equipment)

#### Eye/face protection

Use safety goggles with side protection.

#### Skin protection

##### - Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leaktightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned together with the supplier of these gloves.

##### - Type of material

IIR: isobutene-isoprene (butyl) rubber, NBR: acrylonitrile-butadiene rubber

##### - Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

#### Respiratory protection

Usually no personal respiratory protection necessary

Respiratory protection necessary at: aerosol or mist formation.

full face mask/half mask/quarter mask (EN 136/140), type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White)

#### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Physical state	liquid (paste)
Colour	white
Odour	faintly perceptible
Melting point / freezing point	not determined

Boiling point or initial boiling point and boiling range	not determined
Flammability	this material is combustible but will not ignite readily
Lower and upper explosion	limit not determined
Flash point	>300 °C (ISO 2592)
Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	not applicable
Viscosity	ca. 300 PEN

**Solubility(ies)**

Water solubility	insoluble
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**Partition coefficient**

Partition coefficient n-octanol/water (log value)	not determined
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Vapour pressure	not determined
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**Density and/or relative density**

Density	ca. 0,97 g/cm <sup>3</sup> at 25 °C
Relative vapour density	information on this property is not available

Particle characteristics	no relevant (liquid)
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**9.2 Other information**

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
Other safety characteristics	there is no additional information



## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible Materials

Oxidisers

### 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.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification according to GHS (1272/2008/EC, CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### Acute toxicity

The classification criteria for these hazard classes are not met.

##### - Acute toxicity estimate (ATE)

Oral >5.000 mg/kg

Dermal >2.000 mg/kg

#### Skin corrosion/irritation

The classification criteria for this hazard class are not met.

#### Serious eye damage/eye irritation

The classification criteria for this hazard class are not met.

#### Respiratory or skin sensitisation

The classification criteria for these hazard classes are not met.

**Germ cell mutagenicity**

The classification criteria for this hazard class are not met.

**Carcinogenicity**

The classification criteria for this hazard class are not met.

**Reproductive toxicity**

The classification criteria for this hazard class are not met.

**Specific target organ toxicity - single exposure**

The classification criteria for this hazard class are not met.

**Specific target organ toxicity - repeated exposure**

The classification criteria for this hazard class are not met.

**Aspiration hazard**

The classification criteria for this hazard class are not met.

**11.2 Information on other hazards**

There is no additional information.

**12. ECOLOGICAL INFORMATION****12.1 Toxicity**

Based on available data no effects on aquatic organisms that are relevant for classification must be expected for the product up to its limits of water solubility. According to current knowledge adverse effects on water purification plants are not expected.

Material is not classified as dangerous to aquatic organisms (LC50/EC50/IC50/LL50/EL50 greater than 100 mg/L in most sensitive species).

By analogy.

**12.2 Persistence and degradability**

Data are not available.

**12.3 Bioaccumulative Potential**

The product has not been tested.

**12.4 Mobility in Soil**

Data are not available.

**12.5 Results of PBT and vPvB Assessment**

None of the ingredients are listed  $\geq 0,1\%$ .

## 12.6 Endocrine disrupting properties

None of the ingredients are listed  $\geq 0,1\%$ .

## 12.7 Other adverse effects

Data are not available.

# 13. DISPOSAL CONSIDERATIONS

## 13.1 Waste Treatment Methods

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Consult the appropriate local waste disposal expert about waste disposal.

### Waste treatment-relevant information

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

### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

### Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

# 14. TRANSPORT INFORMATION

## 14.1 UN number or ID number

not subject to transport regulations

## 14.2 UN proper shipping name

not relevant

## 14.3 Transport hazard class(es)

none

## 14.4 Packing group

not assigned

## 14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous good regulations

## 14.6 Special precautions for user

There is no additional information

## 14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

**Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information**

Not subject to ADR, RID and ADN.

**International Maritime Dangerous Goods Code (IMDG) - Additional information**

Not subject to IMDG.

**International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information**

Not subject to ICAO-IATA.

## 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**Relevant provisions of the European Union (EU)**

**Restrictions according to REACH, Annex XVII**

None of the ingredients are listed  $\geq 0,1\%$

**List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list**

None of the ingredients are listed  $\geq 0,1\%$

**Seveso Directive**

2012/18/EU (Seveso III)			
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
	not assigned		

**Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)**

none of the ingredients are listed

**Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)**

none of the ingredients are listed

**Regulation on the marketing and use of explosives precursors**

none of the ingredients are listed

**Regulation on drug precursors**

none of the ingredients are listed

**Regulation on persistent organic pollutants (POP)**

None of the ingredients are listed.

**National regulations (Germany)****Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)**

Wassergefährdungsklasse, WGK (water 1 slightly hazardous to water hazard class)

**Technical instructions on air quality control (Germany)**

Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
5.2.5	organic substances	class I	1 - < 5 wt%	0,1 kg/h	20 mg/m <sup>3</sup>	3)
5.2.5	organic substances		≥ 25 wt%	0,5 kg/h	50 mg/m <sup>3</sup>	3)

**Notation**

3) a total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m<sup>3</sup>, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

**National inventories**

Country	Inventory	Status
AU	AIIC	all ingredients are listed or exempt from listing
CA	DSL	all ingredients are listed or exempt from listing
CN	IECSC	all ingredients are listed or exempt from listing
EU	REACH Reg.	all ingredients are listed or exempt from listing
JP	CSCL-ENCS	all ingredients are listed or exempt from listing
JP	ISHA-ENCS	all ingredients are listed or exempt from listing
KR	KECI	all ingredients are listed or exempt from listing
PH	PICCS	all ingredients are listed or exempt from listing
TW	TCSI	all ingredients are listed or exempt from listing
US	TSCA	all ingredients are listed or exempt from listing

**Legend**

AIIC	Australian Inventory of Industrial Chemicals
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals Inventory
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

## 15.2 Chemical Safety Assessment

Chemical safety assessment for substances in this mixture were not carried out.

## 16. OTHER INFORMATION

### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)
2.2	- Signal word: not required	
2.2		- Supplemental hazard information: change in the listing (table)
2.3	Results of PBT and vPvB assessment: Containing a PBT-vPvB-substance in a concentration of ≥ 0,1%.	Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB ≥ 0,1%.
3.2		Description of the mixture: change in the listing (table) 8.1
8.1		Relevant DNELs of components of the mixture: change in the listing (table)
8.1		Relevant PNECs of components of the mixture: change in the listing (table)
12.5	Results of PBT and vPvB assessment: Octamethylcyclotetrasiloxane (D4) meets the current EU REACH Annex XIII criteria for PBT and vPvB and has been added to the candidate list for Substances of very high concern (SVHC). However, D4 does not behave similarly to known PBT/vPvB substances. The silicones industries interpretation of the available data is that the weight of scientific evidence from field studies shows that D4 is not biomagnifying in aquatic and terrestrial food webs. D4 in air will degrade by naturally occurring reactions in the atmosphere. Any D4 in air that does not degrade by these reactions is not expected to deposit from the air to water, to land, or to living organisms. Decamethylcyclopentasiloxane (D5) meets the current EU REACH Annex XIII criteria for vPvB and has been added to the candidate list for Sub- stances of very high concern (SVHC). However, D5 does not behave similarly to known PBT/vPvB substances. The silicones industries interpretation of the available data is that the weight of scientific evidence from field studies shows that D5 is not biomagnifying in aquatic and terrestrial food webs. D5 in air will degrade by naturally occurring reactions in the atmosphere. Any D5 in air that does not degrade by these reactions is not expected to deposit from the air to water, to land, or to living organisms. Dodecamethylcyclohexasiloxane (D6) meets the current EU REACH Annex XIII criteria for vPvB and has been added to the candidate list for Sub- stances of very high concern (SVHC). However, D6 does not behave similarly to known PBT/vPvB substances. The silicones industries interpretation of the available data is that the weight of scientific evidence from field studies shows that D6 is not biomagnifying in aquatic and terrestrial food webs. D6 in air will degrade by naturally occurring reactions in the atmosphere. Any D6 in air that does not degrade by these reactions is not expected to deposit from the air to water, to land, or to living organisms.	Results of PBT and vPvB assessment: None of the ingredients are listed ≥ 0,1%.

**Indication of changes (revised safety data sheet)**

Section	Former entry (text/value)	Actual entry (text/value)
12.6		Endocrine disrupting chemicals (EDC): change in the listing (table)
15.1	Restrictions according to REACH, Annex XVII	Restrictions according to REACH, Annex XVII: None of the ingredients are listed $\geq 0,1\%$
15.1		Dangerous substances with restrictions (REACH, Annex XVII): change in the listing (table)
15.1	List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list	List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list: None of the ingredients are listed $\geq 0,1\%$
15.1		Substance of Very High Concern (SVHC): change in the listing (table)

**Abbreviations and acronyms**

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
LGK	Lagerklasse (storage class according to TRGS 510, Germany)
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
SVHC	Substance of Very High Concern
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)
vPvB	Very Persistent and very Bioaccumulative

**Key literature references and sources for data**

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.  
Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

**Classification procedure**

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

**Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

**Internal Code**

GHS 3.0 / 01.12.2022