

Certificate

Standard **ISO 9001:2015**

Certificate Registr. No. **01 100 102101**

Certificate Holder:



Fermit GmbH
Zur Heide 4
53560 Vettelschoß
Germany

Scope:

Manufacturing and sales of sealants
for heating, sanitary and industry

Proof has been furnished by means of an audit that the
requirements of ISO 9001:2015 are met.

Validity:

The certificate is valid from 2019-10-28 until 2022-10-25.
First certification 2010
Date of recertification audit: 2019-10-24
Expiry date of last certification cycle: 2019-10-25

2019-10-29

TÜV Rheinland Cert GmbH
Am Grauen Stein · 51105 Köln

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 03.07.2018

Version number 3

Revision: 26.06.2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name: Grafitpaste "Nivo"**
Grafitose-Flexoperm
- **UFI-Code:** UD10-80TP-V00M-EFMJ
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Lubricant
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Fermit GmbH
Zur Heide 4,
D- 53560 Vettelschoß
www.fermit.de
- **Informing department:**
Tel.: +49 (0) 2645-2207
Fax: +49 (0) 2645-3113
Email: info@fermit.de
- **1.4 Emergency telephone number:** Tel.: +49 (0) 2645-2207

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified, according to the CLP regulation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Mixture consisting of mineral oil and graphite.
- **Dangerous components:** Void
- **Additional information** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information** Instantly remove any clothing contaminated by the product.
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact**
Instantly wash with water and soap and rinse thoroughly.

(Contd. on page 2)

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Version number 3

Revision: 26.06.2018

Trade name: Grafitpaste "Nivo"
Grafitose-Flexoperm

(Contd. from page 1)

If skin irritation continues, consult a doctor.

- **After eye contact**

Keep eye lids open and rinse them with ample amounts of clean running water for at least 15 minutes.

Seek medical treatment.

- **After swallowing** Do not induce vomiting; instantly call for medical help.

- **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

- **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents**

Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.

- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.

- **5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

Can be released in case of fire:

Carbon monoxide (CO)

- **5.3 Advice for firefighters**

- **Protective equipment:** Do not inhale explosion gases or combustion gases.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

The usual precautionary measures should be adhered to general rules for handling chemicals.

Ensure adequate ventilation

- **6.2 Environmental precautions:**

Prevent from spreading (e.g. by damming-in or oil barriers).

Inform respective authorities in case product reaches water or sewage system.

Do not allow to enter drainage system, surface or ground water.

- **6.3 Methods and material for containment and cleaning up:**

Remove from the surface of water (e.g. skim or vacuum off)

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

Send for recovery or disposal in suitable containers.

- **6.4 Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**

No special precautions necessary if used correctly.

Avoid direct contact with eyes, skin and clothing.

- **Information about protection against explosions and fires:** No special measures required.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Storage**

- **Requirements to be met by storerooms and containers:** Store only in the original container.

- **Information about storage in one common storage facility:**

Keep away from strong oxidizing, alkalis and acidic materials.

(Contd. on page 3)

Safety data sheet

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Revision: 26.06.2018

Trade name: Grafitpaste "Nivo"
Grafitose-Flexoperm

(Contd. from page 2)

- **Further information about storage conditions:** Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
Avoid close or long term contact with the skin.
Do not carry cleaning cloths impregnated with the product in trouser pockets.
The usual precautionary measures should be adhered to general rules for handling lubricants.
- **Breathing equipment:**
Not required.
Use breathing protection only when aerosol or mist is formed.
- **Protection of hands:**
In case of longer or repeated contact with the skin: use protective cream for the skin surfaces coming into contact with the product.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **For the permanent contact gloves made of the following materials are suitable:**
Nitrile rubber, NBR
- **Eye protection:** Safety glasses recommended during refilling.
- **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Liquid
Colour:	Black
Odour:	odourless
- **Change in condition**

Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	Not determined
- **Flash point:**

	320 °C
	Mineral oil

(Contd. on page 4)

Safety data sheet

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Version number 3

Revision: 26.06.2018

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(Contd. from page 3)

· Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive.
· Density	Not determined
· Solubility in / Miscibility with Water:	Insoluble
· Solvent content:	
Water:	0.0 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Avoid contact with strong oxidizing agents.
- **10.6 Hazardous decomposition products:**
None in case of intended use and storage in compliance with instructions.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
- **Skin corrosion/irritation**
More frequent and continuous contact with the skin may result in irritation of the skin.
Longer or repeated contact with the product reduces the natural readipogenesis of the skin and results in the desiccation of the skin. That product can be absorbed via the skin.
- **Serious eye damage/irritation** Not determined.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:** The product is slightly biodegradable.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.

(Contd. on page 5)

Safety data sheet

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(Contd. from page 4)

- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
The waste code numbers mentioned are recommendations based on the probable use of the product.

- **European waste catalogue**

13 00 00	OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)
13 02 00	waste engine, gear and lubricating oils
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils
12 00 00	WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS
12 01 00	wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01 12*	spent waxes and fats

- **Uncleaned packagings:**
- **Recommendation:** Non contaminated packagings can be used for recycling.

SECTION 14: Transport information

- | | |
|---|-----------------|
| · 14.1 UN-Number
· ADR, ADN, IMDG, IATA | Void |
| · 14.2 UN proper shipping name
· ADR, ADN, IMDG, IATA | Void |
| · 14.3 Transport hazard class(es)
· ADR, ADN, IMDG, IATA
· Class | Void |
| · 14.4 Packing group
· ADR, IMDG, IATA | Void |
| · 14.5 Environmental hazards:
· Marine pollutant: | No |
| · 14.6 Special precautions for user | Not applicable. |

(Contd. on page 6)

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(Contd. from page 5)

- | | |
|--|--|
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · Transport/Additional information: | Not dangerous according to the above specifications. |
| · UN "Model Regulation": | Void |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **National regulations**
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Substances of very high concern (SVHC) according to REACH, Article 57**
- None of the ingredients is contained.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing data specification sheet:**
 This Material Safety Data Sheet has been drawn up in cooperation with:
 DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,
 phone: (+49) 511 42079 - 0, reach@dekra.com.
 © DEKRA Assurance Services GmbH. Changing this documents is subject to explicit acceptance by DEKRA Assurance Services GmbH.
- **Abbreviations and acronyms:**
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 PBT: Persistent, Bioaccumulative and Toxic
 SVHC: Substances of Very High Concern
 vPvB: very Persistent and very Bioaccumulative
- *** Data compared to the previous version altered.**

GB

SANITARY AND HEATING EQUIPMENT

HEATING MAINTENANCE

GRAFITPASTE NIVO - FLEXOPERM



Highly heat resistant sealing paste for threaded and flange connections

Prevents sealings, bolts, screws etc exposed to strong heat from sticking. Spread the paste on flange and surface sealings. If used as sealant (DIN 2999) at more than 160°C, the additional use of aluminium hemp is recommended.

Temperature range: 0°C to 300°C

Article number	Article	PU
13001	500 g can	1

- Protects against rust
- Highly heat resistant
- Versatile
- Reliable and safe

3D-KITT



Liquid sealant for small leaks

3D-KITT closes inside pores, cracks, or sealing damages on boilers, radiators, pumps, cylinder blocks, and car radiators. Absolutely resistant to water and steam pressure.

3D-KITT is not suitable for sealing especially tight vents such as thermostat valves.

Application quantity: 1 kg 3D-Kitt for 150 l heating water
Storage: 60 months

Article number	Article	PU
14001	1 kg bottle	1

- Good value for money
- Versatile
- Easy to use

3D-KITT SUPER



Liquid for leakages; for sealing up cracks and minor leaks.

3D-KITT SUPER closes pores, cracks and sealing damages on boilers, radiators, pumps, cylinder blocks, and car radiators. From the inside absolutely resistant against water and steam pressure. Removes the porosity of pipes and metal connections without disassembly of the components.

3D-KITT SUPER is also suitable for use in floor heatings. Does not attack the seals of the heater nipples. After filling turn the heater to 80°C for 2 to 3 hours.

Not suitable for steam boilers!

Application quantity: 1-2 kg 3D-KITT SUPER for ca. 100 l heating water.
For details see technical data sheet
Storage: 18 months

Article number	Article	PU
14003	2 kg canister	1

- Glycol antifreeze-compatible
- Also compatible with cast iron, steel, aluminium, copper PVC-C
- Does not clog up the heating systems
- Versatile
- Reliable and safe