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

1.1 Product identifier

Trade name

**Tube of high vacuum grease**

Substance name Polydimethylsiloxane with pyrogenic silicic acid.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture

Tool for chemical analysis

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

ELTRA GmbH

Retsch-Allee 1-5

42781 Haan

GERMANY

Telephone no. +49 (0) 2104 23 33-400

Fax no. +49 (0) 2104 23 33-499

Information provided by / telephone

+49 (0) 2104 23 33-192

Advice on Safety Data Sheet

info@eltra.com

1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification information

This product does not meet the classification and labelling criteria given in the Regulation (EC) No 1272/2008 (CLP).

2.2 Label elements

Not relevant

2.3 Other hazards

No data available.

SECTION 3: Composition/Information on ingredients

3.1 Substances

Chemical characterization

Substance name Polydimethylsiloxane with pyrogenic silicic acid.

3.2 Mixtures

Hazardous ingredients

This product does not contain substances to be mentioned according to EU Regulation No 1907/2006 (REACH), annex II.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information
In case of persisting adverse effects, consult a physician.

**After inhalation**
Ensure supply of fresh air.

**After skin contact**
Remove product mechanically. Wash off with soap and water.

**After eye contact**
Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical assistance.

**After ingestion**
Let plenty of water be drunk in small gulps. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.

4.2 **Most important symptoms and effects, both acute and delayed**
No data available.

4.3 **Indication of any immediate medical attention and special treatment needed**
No data available.

### SECTION 5: Firefighting measures

5.1 **Extinguishing media**

- **Suitable extinguishing media**
  Extinguishing measures to suit surroundings. Water spray jet; Carbon dioxide; Foam; Extinguishing powder

- **Unsuitable extinguishing media**
  No data available.

5.2 **Special hazards arising from the substance or mixture**
None known.

5.3 **Advice for firefighters**
Use self-contained breathing apparatus. Wear protective clothing.

### SECTION 6: Accidental release measures

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

- **For non-emergency personnel**
  Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.

- **For emergency responders**
  No data available. Personal protective equipment (PPE) - see Section 8.

6.2 **Environmental precautions**
Do not discharge into the drains/surface waters/groundwater.

6.3 **Methods and material for containment and cleaning up**
Take up mechanically. Take up with absorbent, non flammable material (e.g., sand, kieselguhr, universal binder).
Send in suitable containers for recovery or disposal.

6.4 **Reference to other sections**
No data available.

### SECTION 7: Handling and storage

7.1 **Precautions for safe handling**

- **Advice on safe handling**
  Provide good ventilation at the work area (local exhaust ventilation, if necessary). Product may charge electrostatically during pouring or filling.

- **General protective and hygiene measures**
  Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work.

- **Advice on protection against fire and explosion**
  Protect against electrostatic charges.
7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions
Keep container tightly closed and dry in a cool, well-ventilated place.

Requirements for storage rooms and vessels
Always keep in containers of same material as the original.

7.3 Specific end use(s)
No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
No parameters available for monitoring.

8.2 Exposure controls

Appropriate engineering controls
No data available.

Personal protective equipment

Respiratory protection
No special measures required.

Eye / face protection
Safety glasses with side protection shield (EN 166)

Hand protection
Not necessary, if processed under regular conditions.

Other
Normal chemical work clothing.

Environmental exposure controls
No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form/Colour</td>
<td>paste</td>
</tr>
<tr>
<td></td>
<td>white</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH value</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>Value</td>
</tr>
<tr>
<td>Melting point / melting range</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition point / decomposition range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Value</td>
</tr>
<tr>
<td>Method</td>
<td>DIN 51376</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Oxidising properties
No data available

Explosive properties
No data available

Flammability (solid, gas)
No data available

Lower flammability or explosive limits
No data available

Upper flammability or explosive limits
No data available

Vapour pressure
No data available

Vapour density
No data available

Evaporation rate
No data available

Relative density
No data available

Density
<table>
<thead>
<tr>
<th>Value</th>
<th>Reference temperature</th>
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<tbody>
<tr>
<td>0.97</td>
<td>20 °C</td>
</tr>
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</table>

Solubility in water
<table>
<thead>
<tr>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>insoluble</td>
</tr>
</tbody>
</table>

Solubility(ies)
No data available

Partition coefficient: n-octanol/water
No data available

Viscosity
No data available

9.2 Other information
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available.

10.2 Chemical stability
Stable if stored and handled properly.

10.3 Possibility of hazardous reactions
No data available.

10.4 Conditions to avoid
None, if handled according to intended use.

10.5 Incompatible materials
No data available.

10.6 Hazardous decomposition products
No data available.

SECTION 11: Toxicological information
11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Acute oral toxicity</th>
<th>No Product Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Tube of high vacuum grease</td>
<td></td>
</tr>
<tr>
<td>LD50 &gt; 5000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Species</td>
<td>rat</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acute dermal toxicity</th>
<th>No data available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Acute inhalational toxicity</th>
<th>No data available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Skin corrosion/irritation</th>
<th>No Product Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Tube of high vacuum grease</td>
<td></td>
</tr>
<tr>
<td>Duration of exposure</td>
<td>24 h</td>
</tr>
<tr>
<td>Species</td>
<td>rabbit</td>
</tr>
<tr>
<td>Evaluation</td>
<td>No irritant effect.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Serious eye damage/irritation</th>
<th>No Product Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Tube of high vacuum grease</td>
<td></td>
</tr>
<tr>
<td>Species</td>
<td>rabbit</td>
</tr>
<tr>
<td>Evaluation</td>
<td>No irritant effect.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Respiratory or skin sensitisation</th>
<th>No Product Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Tube of high vacuum grease</td>
<td></td>
</tr>
<tr>
<td>Route of exposure</td>
<td>Skin</td>
</tr>
<tr>
<td>Method</td>
<td>OECD 406</td>
</tr>
<tr>
<td>Evaluation</td>
<td>Non-sensitizing</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Germ cell mutagenicity</th>
<th>No data available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Reproduction toxicity</th>
<th>No data available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Carcinogenicity</th>
<th>No data available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>STOT - single exposure</th>
<th>No data available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>STOT - repeated exposure</th>
<th>No data available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Aspiration hazard</th>
<th>No data available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Symptoms related to the physical, chemical and toxicological characteristics</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact with eyes can cause short time, harmless, reversible blurred vision, due to the formation of an oil film on the eye.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other information</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Exercise customary precautions when handling chemicals.</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 12: Ecological information

12.1 Toxicity
### Toxicity to fish (acute)

<table>
<thead>
<tr>
<th>No</th>
<th>Product Name</th>
<th>LC50</th>
<th>Duration of exposure</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tube of high vacuum grease</td>
<td>200</td>
<td>96 h</td>
<td>Leuciscus idus</td>
</tr>
</tbody>
</table>

### Toxicity to Daphnia (acute)

No data available.

### Toxicity to Daphnia (chronic)

No data available.

### Toxicity to algae (acute)

No data available.

### Toxicity to algae (chronic)

No data available.

### Bacteria toxicity

<table>
<thead>
<tr>
<th>No</th>
<th>Product Name</th>
<th>EC0</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tube of high vacuum grease</td>
<td>&gt;10,000</td>
<td>Pseudomonas putida</td>
</tr>
</tbody>
</table>

#### 12.2 Persistence and degradability

No data available.

#### 12.3 Bioaccumulative potential

No data available.

#### 12.4 Mobility in soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

No data available.

#### 12.6 Other adverse effects

No data available.

#### 12.7 Other information

Do not discharge product unmonitored into the environment.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

**Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

### SECTION 14: Transport information

#### 14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

#### 14.2 Transport IMDG

The product is not subject to IMDG regulations.
14.3 Transport ICAO-TI / IATA
The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information
No data available.

14.5 Environmental hazards
Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user
No data available.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
Not relevant

SECTION 15: Regulatory information

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

<table>
<thead>
<tr>
<th>Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>REACH candidate list of substances of very high concern (SVHC) for authorisation</th>
</tr>
</thead>
<tbody>
<tr>
<td>According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances requiring authorisation as listed on Annex XVII of the REACH regulation (EC) 1907/2006.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>This product is not subject to Part 1 or 2 of Annex I.</td>
</tr>
</tbody>
</table>

15.2 Chemical safety assessment
No data available.

SECTION 16: Other information

Further information
Article no. 92610, tube 35 g

Sources of key data used to compile the data sheet:
National Threshold Limit Values of the corresponding countries as amended in each case.
Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.
The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Department issuing safety data sheet
UMCO GmbH
Georg-Wilhelm-Str. 187, D-21107 Hamburg
Tel.: +49 40 / 555 546 300  Fax: +49 40 / 555 546 357  e-mail: umco@umco.de

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.

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Trade name: Tube of high vacuum grease

Prod-ID  640139