

Safety Data Sheet  
according to 1907/2006/EC, Article 31

Revision: 23.10.2008

## 1 Identification of substance:

- Product details:
  - Trade name: RENOLIN THERM 320 WAERMETR.OEL
  - Application of the substance / the preparation: Lubricant
- Manufacturer/Supplier:  
FUCHS EUROPE SCHMIERSTOFFE GMBH EXPORT DIVISION  
Friesenheimer Str. 15  
D-68169 Mannheim  
Tel: ++49 (0)621/3701-0 (Switch Board)  
Fax: ++49 (0)621/3701-570
- Informing department:  
Product safety department Tel: ++49 (0)621/3701-333  
E-Mail: Produktsicherheit@fuchs-europe.de
- Emergency information:  
Tel: ++49 (0)621/3701-333 or ++49 (0)621/3701-0 (Switch Board)

## 2 Hazards identification

- Hazard designation:  
By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept.
- Information pertaining to particular dangers for man and environment  
This product is water polluting; see item 12.

## 3 Composition/information on ingredients

- Chemical characterization:  
CAS No. Designation:  
mineral oil
- Identification number(s): Single substance

## 4 First aid measures

- General information  
Change clothes and shoes contaminated or soaked by the product.  
Never put rags contaminated by the product into cloth-pockets.
- After inhalation Seek medical treatment in case of complaints.
- After skin contact  
Instantly wash with water and soap and rinse thoroughly.
- After eye contact  
Rinse opened eye for several minutes under running water.
- After swallowing  
Do not induce vomiting; instantly call for medical help.

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## 5 Fire fighting measures

- Suitable extinguishing agents  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet.
- Use fire fighting measures that suit the environment.
- For safety reasons unsuitable extinguishing agents  
Water with a full water jet.
- Protective equipment:  
In case of fire fighting: wear self containing breathing apparatus

## 6 Accidental release measures

- Person-related safety precautions:  
Particular danger of slipping on leaked/ spilled product.
- Environmental protection measures:  
Prevent from spreading (e.g. by binding or oil barriers).  
Do not allow to enter the ground/ soil.
- Measures for cleaning/collecting:  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of the material collected according to regulations.
- Additional information: No dangerous materials are released.

## \* 7 Handling and storage

- Handling
- Information for safe handling: Prevent formation of aerosols.
- Information about protection against explosions and fires:  
Do not heat up to temperatures close to the flash point.
- Storage
- Requirements to be met by storerooms and containers:  
No special requirements.
- Information about storage in one common storage facility:  
Store away from foodstuffs.
- Further information about storage conditions: None.

## 8 Exposure controls and personal protection

- Additional information about design of technical systems:  
No further data; see item 7.
- Components with critical values that require monitoring at the workplace:
- CAS No. Designation of material      %      Type      Value Unit  
Not required.

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- Additional information:  
The lists that were valid during the compilation were used as basis.
- Personal protective equipment
- General protective and hygienic measures  
The usual precautionary measures should be adhered to in handling the chemicals and the mineral oil products.  
Avoid close or long term contact with the skin.  
Use skin protection cream for preventive skin protection.  
Do not carry cleaning cloths impregnated with the product in trouser pockets.
- Breathing equipment:  
Use breathing protection only when aerosol or mist is formed.
- Protection of hands: Not required.
- 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.
- 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  
Neoprene gloves
- Not suitable are gloves made of the following materials:  
Butyl rubber, BR  
Natural rubber, NR
- Eye protection: Safety glasses recommended during refilling.
- Body protection: Protective work clothing.

## \* 9 Physical and chemical properties:

- General Information
- Form: Fluid
- Colour: Yellow
- Smell: Mild
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- Change in condition
- Melting point/Melting range: Value/Range Unit Method  
-12 ° C ISO 3016
- Boiling point/Boiling range: Not determined
- Flash point: > 200 ° C ISO 2592
- Decomposition temperature: Not determined
- Danger of explosion: Product is not explosive.

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- Density at 15 ° C 0.87 g/cm<sup>3</sup> DIN 51 757
- Solubility in / Miscibility with Water: Insoluble
- Viscosity or Consistency-Class:
- kinematic: at 40 ° C 44 mm<sup>2</sup>/s DIN 51 562

## 10 Stability and reactivity

- Thermal decomposition / conditions to be avoided:  
No decomposition if used according to specifications.
- Materials to be avoided: Powerful oxidising agent.
- Dangerous reactions No dangerous reactions known
- Dangerous products of decomposition:  
No dangerous decomposition products known

## \* 11 Toxicological information

- Acute toxicity:  
LD/LC50 values that are relevant for classification:  
Oral: LD50: >5000 mg/kg (rat)  
Dermal: LD50: >3000 mg/kg (rab)
- Primary irritant effect:
- on the skin: No irritant effect known.
- on the eye: No irritant effect known.
- Sensitization: No sensitizing effect known.
- Additional toxicological information:  
When used and handled according to specifications, the product does not have any harmful effects according to our actual informations.  
The material is not subject to classification according to EC lists in the last version.

## 12 Ecological information:

- Behaviour in environmental systems:
- Mobility and bioaccumulation potential: No data available
- Ecotoxicological effects:
- Behaviour in sewage processing plants:  
The product swims on the water surface.
- General notes:  
German Water Endangering Class 1 (Assessment by list): slightly hazardous for water.  
Do not allow to reach ground water, water bodies or sewage system.

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## 13 Disposal considerations

- Product:
- Recommendation  
Smaller quantities have to be disposed in line with local legislation. When storing used mineral oil products, ensure that the categories for waste oil and mixing instructions are observed. Delivery of waste oil only to officially authorized collectors.
- European waste catalogue  
13 03 07: mineral-based non-chlorinated insulating and heat transmission oils
- Uncleaned packagings:
- Recommendation:  
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Small one-way packagings have to be disposed according to the local regulations.  
EWC 15 01 99.

## 14 Transport information

- Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)
- ADR/RID-GGVS/E Class: -
- Maritime transport IMDG/GGVSea:
- IMDG/GGVSea Class: -
- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: -
- Transport/Additional information:  
No dangerous good acc. to dangerous goods/ transport directions.

## 15 Regulatory information

- Designation according to EU guidelines:  
The material is not subject to classification according to EU lists and other sources of literature known to us.  
Observe the normal safety regulations when handling chemicals or mineral oil products.
- National regulations
- German Water Hazard Class:  
Water Enganging Class 1 (Assessment by list): slightly hazardous for water.

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## 16 Other information:

All ingredients are listed in the European Inventories. 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. This data sheet is a safety data sheet according to 91/155/EU. For products which are not subject to classification according to EU lists this data sheet is made on a voluntary base.

- Department issuing data specification sheet:  
FUCHS EUROPE SCHMIERSTOFFE GMBH Export Division  
Product Safety Departement
- Contact:  
Product Safety Departement:  
Tel: ++49(0)621/3701-333 Mrs. Manuwald
- Validity:  
With this latest edition of this MSDS all former editions are not valid any longer.  
Changed items are marked with "\*".
- \* Data compared to the previous version altered.

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