

MATERIAL SAFETY DATA SHEET

According to 91/155/EC

Printing date 21.07.2005

Reviewed on 21.07.2005

1 Identification of substance:

- **Product details:**
- **Trade name:** RENOCLEAN KAF
- **Application of the substance / the preparation:** Cleaning agent/ Cleaner
- **Manufacturer/Supplier:**
FUCHS EUROPE SCHMIERSTOFFE GMBH
Friesenheimer Str. 15
D-68169 Mannheim
Tel: ++49 (0)621/3701-0 (Switch Board)
Fax: ++49 (0)621/3701-570
EXPORT DIVISION
- **Informing department:**
Product safety department Tel: ++49 (0)621/3701-333
- **Emergency information:**
Tel: ++49 (0)621/3701-333 or ++49 (0)621/3701-0 (Switch Board)

2 Composition/Data on components:

- **Chemical characterization:**
- **CAS No. Designation:**
White Spirit, dearomatized
- **Identification number(s):** Single substance

3 Hazards identification

- **Hazard designation:**
Pay attention when handling mineral oil products which contain volatile components with a flashpoint <100°C. The normal precautions acc. to handling (item 7) and safety equipments (item 8) have to be kept.
Xn Harmful
- **Information pertaining to particular dangers for man and environment**
Can form flammable vapour-air mixtures during the application.
This product is water polluting; see item 12.
R 65 Harmful: may cause lung damage if swallowed.
R 66 Repeated exposure may cause skin dryness or cracking
- **Classification system**
The classification and hazard designation are in line with current EC lists resulting of the so called conventional method of 88/379 EU concerning specific data of compounds.

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**
Supply fresh air; consult doctor in case of symptoms.
(eventually by inhaling the overheated product)
- **After skin contact**
Wash with water and soap; pay attention: skin degreasing product.
- **After eye contact**
Rinse opened eye for several minutes under running water.
- **After swallowing**
Do not induce vomiting; instantly call for medical help.
- **Information for doctor**
- **The following symptoms may occur:** Headache

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder 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.
- **Special hazards caused by the material, its products of combustion or flue gases:**
Can form explosive vapor-air mixtures at higher temperatures.
- **Protective equipment:**
In case of fire fighting: wear self containing breathing apparatus
- **Additional information** Cool endangered containers with water spray jet.
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6 Accidental release measures

- **Person-related safety precautions:**
Particular danger of slipping on leaked/ spilled product.
Keep away from ignition sources
- **Environmental protection measures:**
Do not allow product to reach sewage system or water bodies.
Inform respective authorities in case product reaches water or sewage system.
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 contaminated material as waste according to item 13.
Dispose of the material collected according to regulations.

7 Handling and storage

- **Handling**
The precautions for storing and handling of flammable liquids have to be kept.
- **Information for safe handling:**
Prevent formation of aerosols.
Use only in well ventilated areas.
Ensure good interior ventilation, especially at floor level.
(Fumes are heavier than air).
Do not eat, drink or smoke when working with the product.
Take usual precautions when handling mineral oil products or chemical products.
- **Information about protection against explosions and fires:**
Protect against electrostatic charges.
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.
Local regulations for common storage of flammable liquids have to be followed.
- **Further information about storage conditions:**
Keep container tightly sealed.
Local regulations concerning handling and storage of water polluting substances have to be followed.

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 |
|---------|-------------------------|---|------|-------|------|

Local regulations for critical values at the workplace are to be kept.
- **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.
Keep away from foodstuffs, beverages and food.
Wash hands during breaks and at the end of the work.
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:**
Not necessary if room is well-ventilated.
Use breathing protection in case of insufficient ventilation.

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- **Protection of hands:**
Protective gloves, where permitted in acc. to safety directions.
- **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:**
Fluorocarbon rubber (Viton)
- **Eye protection:** Safety glasses recommended during refilling.
- **Body protection:** Protective work clothing.

9 Physical and chemical properties:

• General Information

Form:	Fluid
Colour:	Colourless
Smell:	Mild

• Change in condition

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined

- **Flash point:** 64°C (ISO 2592)
- **Ignition temperature:** > 200°C
- **Danger of explosion:** Product is not explosive.
- **Critical values for explosion:**

Lower:	0.6 Vol %
Upper:	7 Vol %
- **Density at 15°C** 0.79 g/cm³ (DIN 51 757)
- **Solubility in / Miscibility with Water:** Not miscible or difficult to mix
- **Viscosity or Consistency-Class:**

kinematic at 20°C:	1.7 mm ² /s (DIN 51 562)
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10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous reactions**
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.
- **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.

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.

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- **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.

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
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**
07 06 04 other organic solvents, washing liquids and mother liquors
- **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:** -
- **Marine pollutant:** No
- **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 product has been classified and labelled in accordance with EC Directives until 2004/73/EC (29. ATP).
Observe the normal safety regulations when handling chemicals or mineral oil products.
- **Code letter and hazard designation of product:** Xn Harmful
- **Risk phrases:**
65 Harmful: may cause lung damage if swallowed.
66 Repeated exposure may cause skin dryness or cracking
- **Safety phrases:**
24 Avoid contact with skin.
62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
- **National regulations**
- **Technical instructions (air):**
- **Class Share in %**
III 100.0
- **German Water Hazard Class:**
Water Endangering 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.**