

## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

#### 1.1 Product identifier

**Product name:** RENOCLEAN MSO 3006

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

**Identified uses:** Degreaser

**Uses advised against:** No uses advised against identified.

#### 1.3 Details of the supplier of the safety data sheet

##### Manufacturer / Supplier

FUCHS LUBRICANTS (UK) PLC.  
New Century Street  
Hanley  
Stoke-on-Trent, Staffordshire, ST1 5HU  
UK

US Distributor  
Fuchs Lubricants Co.  
17050 Lathrop Avenue  
Harvey, IL 60426  
(708) 333-8900  
(800) 255-3924 24 hrs Emergency

Telephone: +44 (0) 1782 203700

##### Contact Person:

Product Safety department  
Telephone: +44 (0) 1782 203700  
E-mail: product.safety@fuchs-oil.com

**1.4 Emergency telephone number:** UK NHS: Dial 111. Ireland NPIS: Dial +353 1 8092566.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**||** The product has been classified and labelled as hazardous according to regulation (EU) 1272/2008 (CLP).

**Classification according to Regulation (EC) No 1272/2008 as amended.**

##### Health Hazards

<b>  </b> Skin irritation	Category 2	H315: Causes skin irritation.
<b>  </b> Serious eye irritation	Category 2	H319: Causes serious eye irritation.

##### Environmental Hazards

Chronic hazards to the aquatic environment	Category 3	H412: Harmful to aquatic life with long lasting effects.
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##### Hazard summary

**Physical Hazards:** No data available.

#### 2.2 Label Elements

**Product name:** RENOCLEAN MSO 3006



**Signal Words:** Warning

**Hazard Statement(s):** H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H412: Harmful to aquatic life with long lasting effects.

#### Precautionary Statements

**Prevention:** P262: Do not get in eyes, on skin, or on clothing.  
P273: Avoid release to the environment.

**Disposal:** P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

#### Supplemental label information

EUH208: Contains: Isothiazolinone derivative. May produce an allergic reaction.

**2.3 Other hazards:** 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. The product may not be released into the environment without control.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

**General information:** Mixture based on ionic- and nonionic tensides in combination with stabilizers. This product is applied only as solution or emulsion in water.

Chemical name	Identifier	Concentration *	REACH Registration No.	Notes
Alkanolamine	EINECS: 203-312-7	5,00 - <10,00%	01-2119488970-24	
acid, ionic equilibrium with organic bases	Neutralisation product (*)	5,00 - <10,00%		
Hexylen glycol	EINECS: 203-489-0	1,00 - <5,00%	01-2119539582-35	
quarternary ammonium compound	Polymer	0,25 - <1,00%		
Isothiazolinone derivative	EC: 420-590-7	0,01 - <0,25%		

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

(\*) Neutralisation product: Equilibrium of Ionic Pairs in aqueous solution according to REACH Annex V, 4.

**Product name:** RENOCLEAN MSO 3006

### Classification

Chemical name	Identifier	Classification
Alkanolamine	EINECS: 203-312-7	CLP: Eye Irrit. 2;H319
acid, ionic equilibrium with organic bases	Neutralisation product (*)	CLP: Acute Tox. 4;H302, Eye Irrit. 2;H319, Skin Irrit. 2;H315
Hexylen glycol	EINECS: 203-489-0	CLP: Skin Irrit. 2;H315, Eye Irrit. 2;H319
quarternary ammonium compound	Polymer	CLP: Aquatic Acute 1;H400, Aquatic Chronic 1;H410, Acute Tox. 4;H302, Acute Tox. 4;H332, Eye Irrit. 2;H319; M-Factor (aquatic acute): 10; M-Factor (aquatic chronic): 1
Isothiazolinone derivative	EC: 420-590-7	CLP: Skin Corr. 1C;H314, Skin Sens. 1;H317, Aquatic Acute 1;H400, Aquatic Chronic 1;H410; M-Factor (aquatic acute): 10; M-Factor (aquatic chronic): 10

CLP: Regulation No. 1272/2008.

For the wording of the listed hazard statements refer to section 16.

## SECTION 4: First aid measures

**General:** Instantly remove any clothing soiled by the product.

### 4.1 Description of first aid measures

**Inhalation:** Supply fresh air; consult doctor in case of symptoms.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

**Skin Contact:** Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention.

**Ingestion:** Rinse mouth. Call a POISON CENTRE/doctor if you feel unwell.

**4.2 Most important symptoms and effects, both acute and delayed:** Causes serious eye irritation. Causes skin irritation.

**4.3 Indication of any immediate medical attention and special treatment needed** When handing over this safety data sheet, please make the remark: "Cleaner". Get medical attention if symptoms occur.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** CO<sub>2</sub>, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant added

**Unsuitable extinguishing media:** Water with a full water jet.

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<b>5.2 Special hazards arising from the substance or mixture:</b>	During fire, gases hazardous to health may be formed.
<b>5.3 Advice for firefighters</b>	
<b>Special fire fighting procedures:</b>	Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains.
<b>Special protective equipment for fire-fighters:</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

#### SECTION 6: Accidental release measures

<b>6.1 Personal precautions, protective equipment and emergency procedures:</b>	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. In case of spills, beware of slippery floors and surfaces.
<b>6.2 Environmental Precautions:</b>	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent from spreading (e.g. by binding or oil barriers). Environmental manager must be informed of all major spillages. Do not allow to enter drainage system, surface or ground water.
<b>6.3 Methods and material for containment and cleaning up:</b>	Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust). Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.
<b>6.4 Reference to other sections:</b>	See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.  Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

#### SECTION 7: Handling and storage:

<b>7.1 Precautions for safe handling:</b>	Avoid contact with eyes. Wash hands thoroughly after handling. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Avoid contact with skin. Prevent formation of aerosols. Observe good industrial hygiene practices. Provide adequate ventilation.
<b>7.2 Conditions for safe storage, including any incompatibilities:</b>	Local regulations concerning handling and storage of waterpolluting products have to be followed.
<b>7.3 Specific end use(s):</b>	Not applicable
<b>Storage Class:</b>	12, Non-combustible liquids

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control Parameters

#### Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
Hexylen glycol	TWA	25 ppm 123 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Hexylen glycol	STEL	25 ppm 123 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)

### 8.2 Exposure controls

#### Appropriate engineering controls:

Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

##### General information:

Wash hands before breaks and after work. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to in handling the chemicals or the mineral oil products.

##### Eye/face protection:

Safety glasses (EN 166) recommended during refilling. Avoid contact with eyes. Wear closed protection glasses. Wear eye protection/face protection. Avoid contact with skin and eyes. Avoid contact with skin and eyes. Goggles/face shield are recommended. If risk of splashing, wear safety goggles or face shield.

##### Skin protection

##### Hand Protection:

Material: Nitrile-butadiene rubber (NBR).  
Min. Breakthrough time:  $\geq 480$  min  
Recommended thickness of the material:  $\geq 0,38$  mm

Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

##### Other:

Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.

##### Respiratory Protection:

Ensure good ventilation/exhaustion at the workplace. Avoid breathing vapour/ aerosol.

##### Thermal hazards:

Not known.

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**Hygiene measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

**Environmental Controls:** No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	Amber
<b>Odor:</b>	Characteristic
<b>Odor Threshold:</b>	Not applicable for mixtures
<b>pH:</b>	9,3 (DIN 51369, 30 g/l, 20 °C)
<b>Freezing point:</b>	Not applicable for mixtures
<b>Boiling Point:</b>	100 °C
<b>Flash Point:</b>	Not applicable
<b>Evaporation Rate:</b>	Not applicable for mixtures
<b>Flammability (solid, gas):</b>	Value not relevant for classification
<b>Flammability Limit - Upper (%)—:</b>	Value not relevant for classification
<b>Flammability Limit - Lower (%)—:</b>	Value not relevant for classification
<b>Vapor pressure:</b>	Not applicable for mixtures
<b>Vapor density (air=1):</b>	Not applicable for mixtures
<b>Density:</b>	1,00 - 1,04 g/cm <sup>3</sup> (15 °C) (DIN 51757)
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Soluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	Not applicable for mixtures
<b>Autoignition Temperature:</b>	Value not relevant for classification
<b>Decomposition Temperature:</b>	Value not relevant for classification
<b>Flow time</b>	Value not relevant for classification
<b>Explosive properties:</b>	Value not relevant for classification
<b>Oxidizing properties:</b>	Value not relevant for classification
<b>9.2 Other information</b>	No data available.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity:</b>	Stable under normal use conditions.
<b>10.2 Chemical Stability:</b>	Stable under normal use conditions.
<b>10.3 Possibility of hazardous reactions:</b>	Stable under normal use conditions.
<b>10.4 Conditions to avoid:</b>	Stable under normal use conditions.

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**10.5 Incompatible Materials:** Strong oxidizing substances. Strong acids. Strong bases.

**10.6 Hazardous Decomposition Products:** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

## SECTION 11: Toxicological information

### Information on likely routes of exposure

**Inhalation:** No data available.

**Ingestion:** No data available.

**Skin Contact:** Causes skin irritation.

**Eye contact:** Causes eye irritation.

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Oral

**Product:** ATEmix: 12.977 mg/kg

**Specified substance(s)**

Alkanolamine	LD 50 (Rat): 4.680 mg/kg
acid, ionic equilibrium with organic bases	LD 50 (Rat): 1.100 mg/kg
Hexylen glycol	LD 50 (Rat): 4.196 mg/kg
quarternary ammonium compound	LD 50 (Rat): 1.951 mg/kg

##### Dermal

**Product:** Not classified for acute toxicity based on available data.

**Specified substance(s)**

Alkanolamine	LD 50 (Rabbit): 5.990 mg/kg
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##### Inhalation

**Product:** Not classified for acute toxicity based on available data.

**Specified substance(s)**

Hexylen glycol	LC 50 (Rat, 4 h): > 5,1 mg/l
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##### Skin Corrosion/Irritation:

**Product:** Based on available data, the classification criteria are met.

##### Serious Eye Damage/Eye Irritation:

**Product:** Based on available data, the classification criteria are met.

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**Respiratory or Skin Sensitization:**

**Product:** Skin sensitizer: Based on available data, the classification criteria are not met.  
Respiratory sensitizer: Based on available data, the classification criteria are not met.

**Specified substance(s)**

Alkanolamine

No sensitizing effect (guinea pig); OECD 406

**Germ Cell Mutagenicity**

**Product:** Based on available data, the classification criteria are not met.

**Carcinogenicity**

**Product:** Based on available data, the classification criteria are not met.

**Reproductive toxicity**

**Product:** Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** Based on available data, the classification criteria are not met.

**Aspiration Hazard**

**Product:** Based on available data, the classification criteria are not met.

**Other adverse effects:**

No data available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Acute toxicity**

**Product:** Based on available data, the classification criteria are not met.

**Fish**

**Specified substance(s)**

Alkanolamine LC 50 (Fish, 96 h): 1.466 mg/l

acid, ionic equilibrium  
with organic bases LC 50 (Fish, 96 h): 122 mg/l

Hexylen glycol LC 50 (Fish, 96 h): 8.690 mg/l (OECD 203)

quaternary ammonium  
compound LC 50 (Fish, 96 h): 0,047 mg/l

Isothiazolinone derivative LC 50 (Fish, 96 h): 0,15 mg/l (OECD 203)

**Aquatic Invertebrates**

**Specified substance(s)**

Alkanolamine EC 50 (Water Flea, 48 h): 233 mg/l



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acid, ionic equilibrium with organic bases	EC 50 (Water Flea, 48 h): 68 mg/l
Hexylen glycol	EC 50 (Water Flea, 48 h): 4.305 mg/l
quarternary ammonium compound	EC 50 (Water Flea, 48 h): 0,37 mg/l
Isothiazolinone derivative	EC 50 (Water Flea, 48 h): 0,093 mg/l (OECD 202)

**Chronic ToxicityProduct:** Based on available data, the classification criteria are met.

#### **Fish**

##### **Specified substance(s)**

quarternary ammonium compound	NOEC (Fish): 0,037 mg/l
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#### **Aquatic Invertebrates**

##### **Specified substance(s)**

Alkanolamine	NOEC (Water Flea, 96 d): > 100 mg/l
quarternary ammonium compound	NOEC (Water Flea): 0,08 mg/l

#### **Toxicity to Aquatic Plants**

##### **Specified substance(s)**

Alkanolamine	EC 50 (Alga, 72 h): 176 mg/l
acid, ionic equilibrium with organic bases	EC 50 (Alga, 72 h): 81 mg/l
Hexylen glycol	EC 50 (Alga, 72 h): > 420 mg/l (OECD 201)
Isothiazolinone derivative	EC 50 (Alga, 72 h): 0,45 mg/l (OECD 201)

## **12.2 Persistence and Degradability**

#### **Biodegradation**

##### **Product:**

Not applicable for mixtures

##### **Specified substance(s)**

Alkanolamine	96 % (18 d) Readily biodegradable
Hexylen glycol	81 % (21 d, OECD 301F) Readily biodegradable
Isothiazolinone derivative	Not easily biodegradable

## **12.3 Bioaccumulative potential**

##### **Product:**

Not applicable for mixtures

## **12.4 Mobility in soil:**

##### **Product:**

Not applicable for mixtures

**Product name:** RENOCLEAN MSO 3006

**12.5 Results of PBT and vPvB assessment:** The product does not contain any substances fulfilling the PBT/vPvB criteria.

**12.6 Other adverse effects:** Harmful to aquatic life with long lasting effects.

**Water Hazard Class (WGK):** WGK 2: significantly water-endangering.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

**General information:** Dispose in accordance with all applicable regulations.

**Disposal methods:** Discharge, treatment, or disposal may be subject to national, state, or local laws.

#### European Waste Codes

**Unused product:** 12 03 01\*: aqueous washing liquids

### SECTION 14: Transport information

#### ADR/RID

14.1 UN Number: —  
 14.2 UN Proper Shipping Name: —  
 14.3 Transport Hazard Class(es)  
     Class: Non-dangerous goods  
     Label(s): —  
     Hazard No. (ADR): —  
     Tunnel restriction code: —  
 14.4 Packing Group: —  
 14.5 Environmental hazards: —  
 14.6 Special precautions for user: —

#### ADN

14.1 UN Number: —  
 14.2 UN Proper Shipping Name: —  
 14.3 Transport Hazard Class(es)  
     Class: Non-dangerous goods  
     Label(s): —  
 14.3 Packing Group: —  
 14.5 Environmental hazards: —  
 14.6 Special precautions for user: —

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#### IMDG

- |                                    |                     |
|------------------------------------|---------------------|
| 14.1 UN Number:                    | —                   |
| 14.2 UN Proper Shipping Name:      | —                   |
| 14.3 Transport Hazard Class(es)    |                     |
| Class:                             | Non-dangerous goods |
| Label(s):                          | —                   |
| EmS No.:                           | —                   |
| 14.3 Packing Group:                | —                   |
| 14.5 Environmental hazards:        | —                   |
| 14.6 Special precautions for user: | —                   |

#### IATA

- |                                    |                     |
|------------------------------------|---------------------|
| 14.1 UN Number:                    | —                   |
| 14.2 Proper Shipping Name:         | —                   |
| 14.3 Transport Hazard Class(es):   |                     |
| Class:                             | Non-dangerous goods |
| Label(s):                          | —                   |
| 14.4 Packing Group:                | —                   |
| 14.5 Environmental hazards:        | —                   |
| 14.6 Special precautions for user: | —                   |

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** Not applicable.

### SECTION 15: Regulatory information

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

##### EU Regulations

**Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer:** none

**Regulation (EC) No. 850/2004 on persistent organic pollutants:** none

##### National Regulations

Local regulations are to be kept

##### Water Hazard Class (WGK):

WGK 2: significantly water-endangering.

#### 15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

### SECTION 16: Other information

#### Revision Information:

Vertical lines in the margin indicate an amendment.

**Product name:** RENOCLEAN MSO 3006

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**Wording of the H-statements in section 2 and 3**

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Other information:**

The classification complies with the current EU lists; however, it has been supplemented with expert literature information and information provided by/about our company. It was derived from the test data and/or the application of the conventional method.

**Revision Date:**

16.12.2019

**Disclaimer:**

The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no signature.