

## SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

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

#### 1.1 Product identifier

**Product name:** RENOCLEAN FXM 4005

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

**Identified uses:** Alkaline cleaner/ detergent

**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

ST1 5HU Hanley

**Telephone:** +44 (0) 1782 203700

**Contact Person:** Product Safety department

**E-mail:** product.safety@fuchs.com

**Telephone:** +44 (0) 1782 203700

**1.4 Emergency telephone number:** UK NHS: Dial 111

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to regulation GB-CLP.

##### Classification according to GB-CLP.

##### Health Hazards

Skin irritation Category 2 H315: Causes skin irritation.

Serious eye damage Category 1 H318: Causes serious eye damage.

##### Environmental Hazards

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

##### Hazard summary

**Physical Hazards:** No data available.

#### 2.2 Label Elements

**Contains:** Monoethanol amine  
Na sulphonate

**Product name:** RENOCLEAN FXM 4005

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**Signal Words:** Danger

**Hazard Statement(s):** H315: Causes skin irritation.  
H318: Causes serious eye damage.  
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.  
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:** P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTER or doctor/ physician.

#### Supplemental label information

EUH208: Contains: D-Limonene. 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 (strong) alkaline components, tensides and stabilizers. This product is applied only as solution or emulsion in water.

**Product name:** RENOCLEAN FXM 4005

Chemical name	Identifier	Concentration *	UK-REACH Registration No.	Notes
Base oil, naphtenic	EINECS: 265-156-6	1,00% - <10,00%		
Propylene glycol butylether	EINECS: 225-878-4	1,00% - <5,00%		
Monoethanol amine	EINECS: 205-483-3	3,00% - <5,00%		
Na sulphonate	EINECS: 307-055-2	1,00% - <3,00%		
Sodium sulfonate	EINECS: 271-781-5	1,00% - <5,00%		
Fatty alcohol, ethoxylated	EC: 500-241-6	1,00% - <3,00%		
prim. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	1,00% - <5,00%		
D-Limonene	EINECS: 227-813-5	0,25% - <1,00%		

\* 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 GB-REACH Annex V, 4.

**Classification**

Chemical name	Identifier	Classification
Base oil, naphtenic	EINECS: 265-156-6	GBCLP: Asp. Tox. 1;H304
Propylene glycol butylether	EINECS: 225-878-4	GBCLP: Skin Irrit. 2;H315, Eye Irrit. 2;H319
Monoethanol amine	EINECS: 205-483-3	GBCLP: Skin Corr. 1B;H314, Eye Dam. 1;H318, STOT SE 3;H335, Acute Tox. 4;H302, Acute Tox. 4;H312, Acute Tox. 4;H332, Aquatic Chronic 3;H412
Na sulphonate	EINECS: 307-055-2	GBCLP: Eye Dam. 1;H318, Aquatic Chronic 3;H412, Skin Irrit. 2;H315, Acute Tox. 4;H302
Sodium sulfonate	EINECS: 271-781-5	GBCLP: Eye Irrit. 2;H319
Fatty alcohol, ethoxylated	EC: 500-241-6	GBCLP: Eye Dam. 1;H318, Acute Tox. 4;H302
prim. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	GBCLP: Eye Irrit. 2;H319, Skin Irrit. 2;H315
D-Limonene	EINECS: 227-813-5	GBCLP: Flam. Liq. 3;H226, Skin Irrit. 2;H315, Skin Sens. 1B;H317, Asp. Tox. 1;H304, Aquatic Chronic 1;H410, Aquatic Acute 1;H400

GB-CLP

**specific concentration limit**

Chemical name	Identifier	specific concentration limit	Hazard class	Hazard Category	Hazard statements
Monoethanol amine	EINECS: 205-483-3	>= 5 %	Specific target organ toxicity - single exposure	3	H335
Na sulphonate	EINECS: 307-055-2	> 10 %	Skin irritation	2	H315
		> 10 - 15 %	Serious eye irritation	2	H319
		> 15 %	Serious eye damage	1	H318
		> 60 %	Acute toxicity	4	H302

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

Please note that the mineral oils and petroleum distillates used in our products are severely refined and have a DMSO extract < 3% as measured by method IP 346 and are not classified as carcinogenic according to Nota L/ Nota N of Annex VI of Regulation GB-CLP.

**Product name:** RENOCLEAN FXM 4005

## 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. Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.

**Ingestion:** Rinse mouth. Call a POISON CENTER or doctor/ physician if you feel unwell.

**4.2 Most important symptoms and effects, both acute and delayed:** Risk of serious damage to eyes. 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.

**5.2 Special hazards arising from the substance or mixture:** During fire, gases hazardous to health may be formed.

### 5.3 Advice for firefighters

**Special fire-fighting procedures:** 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.

**Special protective equipment for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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## SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures:** 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.
- 6.2 Environmental Precautions:** 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.
- 6.3 Methods and material for containment and cleaning up:** 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.
- 6.4 Reference to other sections:** 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:

- 7.1 Precautions for safe handling:** Avoid contact with skin. 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. Prevent formation of aerosols. Observe good industrial hygiene practices. Provide adequate ventilation.
- 7.2 Conditions for safe storage, including any incompatibilities:** Local regulations concerning handling and storage of waterpolluting products have to be followed. Provide alkali-resistant floor. Do not use light alloy containers.
- 7.3 Specific end use(s):** Not applicable
- Storage Class:** 12, Non-combustible liquids

## SECTION 8: Exposure controls/personal protection

### 8.1 Control Parameters

#### Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
Monoethanol amine	TWA	1 ppm 2,5 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Monoethanol amine	STEL	3 ppm 7,6 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)

### 8.2 Exposure controls

**Product name:** RENOCLEAN FXM 4005

**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:** 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 butyl 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.

**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>	Yellow
<b>Odor:</b>	Characteristic
<b>pH:</b>	10,9 (100 %, 20 °C)
<b>Freezing point:</b>	not determined

**Product name:** RENOCLEAN FXM 4005

<b>Boiling Point:</b>	not determined
<b>Flash Point:</b>	Not applicable
<b>Evaporation Rate:</b>	Not applicable for mixtures
<b>Flammability (solid, gas):</b>	not determined
<b>Explosion Limit - Upper (%):</b>	Not applicable for mixtures
<b>Explosion Limit - Lower (%):</b>	Not applicable for mixtures
<b>Vapor pressure:</b>	Not applicable for mixtures
<b>Relative vapor density:</b>	Not applicable for mixtures
<b>Density:</b>	1,00 g/ml (15,00 °C)
<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>Auto-ignition temperature:</b>	not determined
<b>Decomposition Temperature:</b>	not determined
<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>Particle characteristics:</b>	Not applicable
<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.
<b>10.5 Incompatible Materials:</b>	Strong oxidizing substances. Strong acids. Strong bases.
<b>10.6 Hazardous Decomposition Products:</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

## SECTION 11: Toxicological information

### Information on likely routes of exposure

<b>Inhalation:</b>	No data available.
<b>Ingestion:</b>	No data available.
<b>Skin Contact:</b>	Causes skin irritation.
<b>Eye contact:</b>	Causes serious eye damage.

**Product name:** RENOCLEAN FXM 4005

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## 11.1 Information on toxicological effects

### Acute toxicity

#### Oral

<b>Product:</b>	ATEmix: 8.038 mg/kg
<b>Specified substance(s)</b>	
Monoethanol amine	LD 50 (Rat): 1.515 mg/kg (OECD 401)
Sodium sulfonate	LD 50 (Rat): > 5.000 mg/kg
Fatty alcohol, ethoxylated	LD 50 (Rat): > 300 - 2.000 mg/kg
prim. alkanolamine, ionic equilibrium with acids	LD 50 (Rat): 3.400 mg/kg

#### Dermal

<b>Product:</b>	ATEmix: 27.500 mg/kg
<b>Specified substance(s)</b>	
Monoethanol amine	LD 50 (Rabbit): 2.504 mg/kg (OECD 402)
Sodium sulfonate	LD 50 (Rabbit): > 5.001 mg/kg

#### Inhalation

<b>Product:</b>	ATEmix: 275 mg/l Vapour Vapour
<b>Specified substance(s)</b>	
Base oil, naphtenic	LC 50 (Rat, 4 h): > 5,53 mg/l Dust and mist
Monoethanol amine	LC 50 (Rat, 4 h): > 1,487 mg/l

#### Skin Corrosion/Irritation:

<b>Product:</b>	Based on available data, the classification criteria are met.
<b>Specified substance(s)</b>	
Monoethanol amine	Corrosive.

#### Serious Eye Damage/Eye Irritation:

<b>Product:</b>	Based on available data, the classification criteria are met.
<b>Specified substance(s)</b>	
Monoethanol amine	Corrosive to skin and eyes.



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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)**

Monoethanol amine , OECD 406-1 (Guinea Pig)  
Not a skin sensitizer.

Fatty alcohol, ethoxylated

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)**

Base oil, naphtenic LC 50 (Fish, 96 h): > 5.000 mg/l (OECD 203)

Propylene glycol butyl-ether LC 50 (Fish, 96 h): > 101 mg/l

Monoethanol amine LC 50 (Fish, 96 h): 125 mg/l

Fatty alcohol, ethoxylated LC 50 (Fish, 96 h): 1,1 mg/l

prim. alkanolamine, ionic equilibrium with acids LC 50 (Fish, 96 h): 460 mg/l

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**Aquatic Invertebrates**

**Specified substance(s)**

Base oil, naphtenic	EC 50 (Water Flea, 48 h): > 1.000 mg/l (OECD 202)
Propylene glycol butyl-ether	EC 50 (Water Flea, 48 h): > 101 mg/l
Monoethanol amine	EC 50 (Water Flea, 48 h): 65 mg/l
Fatty alcohol, ethoxylated	EC 50 (Water Flea, 48 h): 1,1 mg/l
prim. alkanolamine, ionic equilibrium with acids	EC 50 (Water Flea, 48 h): 189 mg/l

**Chronic Toxicity**

**Product:**

Based on available data, the classification criteria are met.

**Fish**

**Specified substance(s)**

Base oil, naphtenic	NOEC (Fish, 7 d): > 5.000 mg/l
Monoethanol amine	NOEC (Fish, 30 d): 1,2 mg/l

**Aquatic Invertebrates**

**Specified substance(s)**

Base oil, naphtenic	NOEC (Water Flea, 21 d): > 1.000 mg/l
Monoethanol amine	NOEC (Water Flea, 21 d): 0,85 mg/l (OECD 211)

**Toxicity to Aquatic Plants**

**Specified substance(s)**

Monoethanol amine	EC 50 (Alga, 72 h): 22 mg/l
Fatty alcohol, ethoxylated	EC 50 (Alga, 72 h): 1,1 mg/l
prim. alkanolamine, ionic equilibrium with acids	EC 50 (Alga, 72 h): 202 mg/l

**12.2 Persistence and Degradability**

**Biodegradation**

**Product:**

Not applicable for mixtures

**Specified substance(s)**

Fatty alcohol, ethoxylated	79,3 % (28 d, OECD 301D) Readily biodegradable
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**12.3 Bioaccumulative potential**

**Product:**

Not applicable for mixtures

**12.4 Mobility in soil:**

**Product:**

Not applicable for mixtures

**12.5 Results of PBT and vPvB assessment:**

The product does not contain any substances fulfilling the PBT/vPvB criteria.

**Product name:** RENOCLEAN FXM 4005

**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.

#### List of Waste (LoW) Codes

12 03 01\*: aqueous washing liquids

## SECTION 14: Transport information

### ADR/RID

14.1 UN number or ID 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:	—

### IMDG

14.1 UN number or ID 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:	—

**Product name:** RENOCLEAN FXM 4005

**IATA**

- 14.1 UN number or ID 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:****GB Regulations**

**The Ozone-Depleting Substances and Fluorinated Greenhouse Gases (Amendment etc.) (EU Exit) Regulations 2019:**  
none

**The Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2020:**  
none

**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.

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

H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
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 GB lists; however, it has been supplemented with expert literature information and information provided by/about our company. The following evaluation methods were used: On the basis of test data; Calculation Method; Bridging Principle "Substantially similar mixtures"; Expert Judgement

**Product name:** RENOCLEAN FXM 4005

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**Revision Date:** 08.02.2024

**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.