

## 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 MSA 3011

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

**Identified uses:** Cleaning agent/ Cleaner

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

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

##### Manufacturer / Supplier

Fuchs Schmierstoffe GmbH  
Friesenheimer Str. 19  
68169 Mannheim

Telephone:

+49 621 3701-0 (ZENTRALE)

Fax:

+49 621 3701-570

##### Contact Person:

Fuchs Schmierstoffe GmbH Abteilung Produktsicherheit

Telephone:

+49 621 3701-1333

Fax:

+49 621 3701-7303

E-mail:

produktsicherheit@fuchs-schmierstoffe.de

**1.4 Emergency telephone number:** +49 621 3701-1333 / +49 621 3701-0 (Mo-Do 8-17, Fr 8-16)

### 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

Skin corrosion

Category 1B

H314: Causes severe skin burns and eye damage.

Serious eye damage

Category 1

H318: Causes serious eye damage.

Specific Target Organ Toxicity -  
Single Exposure

Category 3

H335: May cause respiratory irritation.

##### Hazard summary

**Physical Hazards:**

No data available.

#### 2.2 Label Elements

**Contains:**

Monoethanol amine

**Product name:** RENOCLEAN MSA 3011



**Signal Words:** Danger

**Hazard Statement(s):** H314: Causes severe skin burns and eye damage.  
H335: May cause respiratory irritation.

#### Precautionary Statements

**Prevention:** P261: Avoid breathing dust/fume/gas/mist/vapors/spray.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
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/doctor.

**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
acid, ionic equilibrium with organic bases	Neutralisation product (*)	10,00 - <20,00%		
Monoethanol amine	EINECS: 205-483-3	5,00 - <10,00%	01-2119486455-28	
prim. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	5,00 - <10,00%		
inorganic base, ionic equilibrium with acids	Neutralisation product (*)	1,00 - <5,00%		
acid, ionic equilibrium with organic bases	Neutralisation product (*)	1,00 - <5,00%		
alkylammonium carbonate	EC: 451-900-9	0,10 - <1,00%	01-0000019102-83	

\* 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 MSA 3011

### Classification

Chemical name	Identifier	Classification
acid, ionic equilibrium with organic bases	Neutralisation product (*)	CLP: Acute Tox. 4;H302, Eye Irrit. 2;H319, Skin Irrit. 2;H315
Monoethanol amine	EINECS: 205-483-3	CLP: 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
prim. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	CLP: Acute Tox. 4;H302, Acute Tox. 4;H312, Acute Tox. 4;H332, Aquatic Chronic 3;H412, Eye Irrit. 2;H319, Skin Irrit. 2;H315
inorganic base, ionic equilibrium with acids	Neutralisation product (*)	CLP: Acute Tox. 4;H302, Eye Irrit. 2;H319, Skin Irrit. 2;H315
acid, ionic equilibrium with organic bases	Neutralisation product (*)	CLP: Acute Tox. 4;H312, Eye Irrit. 2;H319, Skin Irrit. 2;H315, Met. Corr. 1;H290
alkylammonium carbonate	EC: 451-900-9	CLP: Acute Tox. 3;H301, Skin Corr. 1B;H314, Aquatic Acute 1;H400, Aquatic Chronic 2;H411

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:** If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen. 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. Destroy or thoroughly clean contaminated shoes. Get medical attention.
- Ingestion:** Rinse mouth. Never give liquid to an unconscious person. Do not induce vomiting without advice from poison control center. Seek medical attention.

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

**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

**Product name:** RENOCLEAN MSA 3011

### 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.

## 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:** Prevent from spreading (e.g. by binding or oil barriers). Avoid release to the environment. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so. 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:** Prevent formation of aerosols. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. 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.

**Product name:** RENOCLEAN MSA 3011

**7.3 Specific end use(s):** not applicable

**Storage Class:** 8 B, Non-combustible corrosive substances

## SECTION 8: Exposure controls/personal protection

### 8.1 Control Parameters

#### Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
Monoethanol amine - Vapor and aerosol.	AGW	0,2 ppm    0,5 mg/m <sup>3</sup>	Germany. TRGS 900, Occupational Exposure Limits (AGW) (11 2016)
tert. alkanolamine - Inhalable fraction.	MAK	5 mg/m <sup>3</sup>	Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG) (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.

##### 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.

**Product name:** RENOCLEAN MSA 3011

<b>Thermal hazards:</b>	Not known.
<b>Hygiene measures:</b>	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.
<b>Environmental Controls:</b>	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>	Pale yellow
<b>Odor:</b>	Characteristic
<b>Odor Threshold:</b>	Not applicable for mixtures
<b>pH:</b>	9,8 (20 g/l)
<b>Freezing point:</b>	Not applicable for mixtures
<b>Boiling Point:</b>	not applicable
<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>	Not applicable for mixtures
<b>Flammability Limit - Lower (%)—:</b>	Not applicable for mixtures
<b>Vapor pressure:</b>	Not applicable for mixtures
<b>Vapor density (air=1):</b>	Not applicable for mixtures
<b>Density:</b>	1,04 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>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

**9.2 Other information** 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.

**Product name:** RENOCLEAN MSA 3011

- 10.4 Conditions to avoid:** Stable under normal use conditions.
- 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 severe skin burns.
- Eye contact:** Causes serious eye damage.

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Oral

- Product:** ATEmix: 3.213 mg/kg
- Specified substance(s)**
- acid, ionic equilibrium with organic bases LD 50 (Rat): 1.100 mg/kg
- Monoethanol amine LD 50 (Rat): 1.515 mg/kg (OECD 401)
- prim. alkanolamine, ionic equilibrium with acids LD 50 (Rat): 1.515 mg/kg (OECD 401)
- inorganic base, ionic equilibrium with acids LD 50 (Rat): 365 mg/kg
- alkylammonium carbonate LD 50 (Rat): 245 mg/kg

##### Dermal

- Product:** ATEmix: 8.004 mg/kg
- Specified substance(s)**
- Monoethanol amine LD 50 (Rabbit): 2.504 mg/kg (OECD 402)
- prim. alkanolamine, ionic equilibrium with acids LD 50 (Rabbit): 2.504 mg/kg (OECD 402)

##### Inhalation

- Product:** ATEmix: 87,3 mg/l  
Vapour

**Product name:** RENOCLEAN MSA 3011

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**Skin Corrosion/Irritation:**

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

**Specified substance(s)**  
Monoethanol amine

Corrosive.

alkylammonium  
carbonate

OECD 404 (Rabbit, 4 h):  
Corrosive.

**Serious Eye Damage/Eye Irritation:**

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

**Specified substance(s)**  
Monoethanol amine

Corrosive to skin and eyes.

**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.

**Germ Cell Mutagenicity**

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

**In vitro**

**Specified substance(s)**

alkylammonium  
carbonate

(OECD 473)  
None.

**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 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.



**Product name:** RENOCLEAN MSA 3011

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Acute toxicity

##### Product:

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

#### Fish

##### Specified substance(s)

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

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

prim. alkanolamine, ionic  
equilibrium with acids LC 50 (Fish, 96 h): 125 mg/l

alkylammonium  
carbonate LC 50 (Fish, 96 h): 0,28 mg/l

#### Aquatic Invertebrates

##### Specified substance(s)

acid, ionic equilibrium  
with organic bases EC 50 (Water Flea, 48 h): 68 mg/l

Monoethanol amine EC 50 (Water Flea, 48 h): 65 mg/l

prim. alkanolamine, ionic  
equilibrium with acids EC 50 (Water Flea, 48 h): 65 mg/l

#### Chronic Toxicity

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

#### Fish

##### Specified substance(s)

Monoethanol amine NOEC (Fish, 30 d): 1,2 mg/l

alkylammonium  
carbonate NOEC (Fish, 33 d): 0,018 mg/l (OECD 210)

#### Aquatic Invertebrates

##### Specified substance(s)

Monoethanol amine NOEC (Water Flea, 21 d): 0,85 mg/l (OECD 211)

alkylammonium  
carbonate NOEC (Water Flea, 21 d): 0,027 mg/l (OECD 211)

#### Toxicity to Aquatic Plants

##### Specified substance(s)

acid, ionic equilibrium  
with organic bases EC 50 (Alga, 72 h): 81 mg/l

Monoethanol amine EC 50 (Alga, 72 h): 22 mg/l

prim. alkanolamine, ionic  
equilibrium with acids EC 50 (Alga, 72 h): 22 mg/l

**Product name:** RENOCLEAN MSA 3011

## 12.2 Persistence and Degradability

### Biodegradation

<b>Product:</b>	Not applicable for mixtures
<b>Specified substance(s)</b> alkylammonium carbonate	96 % (28 d, OECD 301B) Readily biodegradable

## 12.3 Bioaccumulative potential

<b>Product:</b>	Not applicable for mixtures
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## 12.4 Mobility in soil:

<b>Product:</b>	Not applicable for mixtures
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## 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:

No data available.

### Water Hazard Class (WGK):

WGK 1: slightly water-endangering.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

<b>General information:</b>	Dispose in accordance with all applicable regulations.
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<b>Disposal methods:</b>	Do not empty into drains; dispose of this material and its container in a safe way. When storing used products, ensure that the waste categories and mixing instructions are observed.
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### European Waste Codes

12 03 01\*: aqueous washing liquids

## SECTION 14: Transport information

### ADR/RID

14.1 UN Number:	UN 1760
14.2 UN Proper Shipping Name:	CORROSIVE LIQUID, N.O.S.(Monoethanol amine)
14.3 Transport Hazard Class(es)	
Class:	8
Label(s):	8
Hazard No. (ADR):	80
Tunnel restriction code:	(E)
14.4 Packing Group:	III
14.5 Environmental hazards:	—
14.6 Special precautions for user:	—

**Product name:** RENOCLEAN MSA 3011

#### ADN

14.1 UN Number:  
14.2 UN Proper Shipping Name: CORROSIVE LIQUID, N.O.S.(Monoethanol amine)  
14.3 Transport Hazard Class(es)  
Class: 8  
Label(s): 8  
14.3 Packing Group: III  
14.5 Environmental hazards: –  
14.6 Special precautions for user: –

#### IMDG

14.1 UN Number:  
14.2 UN Proper Shipping Name: CORROSIVE LIQUID, N.O.S.(Monoethanol amine)  
14.3 Transport Hazard Class(es)  
Class: 8  
Label(s): 8  
EmS No.: F-A, S-B  
14.3 Packing Group: III  
14.5 Environmental hazards: –  
14.6 Special precautions for user: –

#### IATA

14.1 UN Number:  
14.2 Proper Shipping Name: Corrosive liquid, n.o.s.(Monoethanol amine)  
14.3 Transport Hazard Class(es):  
Class: 8  
Label(s): 8  
14.4 Packing Group: III  
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

**Water Hazard Class (WGK):** WGK 1: slightly water-endangering.

**15.2 Chemical safety assessment:** No Chemical Safety Assessment has been carried out.

**Product name:** RENOCLEAN MSA 3011

## SECTION 16: Other information

**Revision Information:** Vertical lines in the margin indicate an amendment.

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

H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
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.
H411	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:** 09.11.2017

**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.