

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 3004 UK

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

Telephone: +44 (0) 1782 203700

Contact Person:

Telephone: Product Safety department
+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 Directive 67/548/EEC or 1999/45/EC as amended.

R36/37/38

Irritating to eyes, respiratory system and skin.

Product name: RENOCLEAN MSO 3004 UK

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



Signal Words: Danger

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

Precautionary Statement

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): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P310: Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental label information

EUH208: Contains Caprylamphopropionate. May produce an allergic reaction.

Product name: RENOCLEAN MSO 3004 UK

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	Concentration *	Identifier	REACH Registration No.	Notes
Monoethanol amine	5,00 - <10,00%	205-483-3	01-2119486455-28	
prim. alkanolamine/ carboxylic acid neutralisation product	5,00 - <10,00%	Neutralisation product (*)		
Fatty acid/ MEA-neutralisation product	1,00 - <5,00%	Neutralisation product (*)		
Ethoxylate	1,00 - <5,00%	Polymer	02-2119552469-28	
Caprylamphopropionate	0,10 - <1,00%	264-761-2		
alkylammonium carbonate	0,10 - <1,00%	451-900-9	01-0000019102-83	
Fatty alcohol, ethoxylated	0,10 - <1,00%	500-241-6	02-2119630717-36	

* 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 3004 UK

Classification

Chemical name	Classification	
Monoethanol amine	DSD:	C; R34 Xn; R20/21/22
	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/ carboxylic acid neutralisation product	DSD:	Xn; R20/21/22 Xi; R36/38
	CLP:	Acute Tox. 4;H302, Acute Tox. 4;H312, Acute Tox. 4;H332, Eye Irrit. 2;H319, Skin Irrit. 2;H315, STOT SE 3;H335, Aquatic Chronic 3;H412
Fatty acid/ MEA-neutralisation product	DSD:	Xi; R36/38
	CLP:	Eye Irrit. 2;H319, Skin Irrit. 2;H315
Ethoxylate	DSD:	Xn; R22
	CLP:	Acute Tox. 4;H302, Eye Irrit. 2;H319, Aquatic Chronic 3;H412
Caprylamphopropionate	DSD:	Xi; R36 R43
	CLP:	Skin Sens. 1B;H317, Eye Irrit. 2;H319
alkylammonium carbonate	DSD:	Xn; R22 C; R34 N; R50
	CLP:	Acute Tox. 3;H301, Skin Corr. 1B;H314, Aquatic Acute 1;H400, Aquatic Chronic 2;H411
Fatty alcohol, ethoxylated	DSD:	Xn; R22
	CLP:	Acute Tox. 4;H302

DSD: Directive 67/548/EEC.
CLP: Regulation No. 1272/2008.

The full text for all R-phrases and H-statements is displayed in section 16.

SECTION 4: First aid measures

General: Change clothes and shoes contaminated or soaked by the product. Never put rags contaminated by the product into clothing pockets.

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

Product name: RENOCLEAN MSO 3004 UK

Hazards: When handing over this safety data sheet, please make the remark: "Cleaner".

Treatment: Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: CO₂, 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: No data available.

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: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Prevent from spreading (e.g. by binding or oil barriers).

6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust).

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.

Product name: RENOCLEAN MSO 3004 UK

SECTION 7: Handling and storage:

7.1 Precautions for safe handling: Provide adequate ventilation. Observe good industrial hygiene practices. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products.

7.2 Conditions for safe storage, including any incompatibilities: Local regulations concerning handling and storage of waterpolluting products have to be followed. Prevent formation of aerosols.

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/m ³	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Monoethanol amine	STEL	3 ppm 7,6 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)

8.2 Exposure controls

Appropriate engineering controls: Good general ventilation (typically 10 air changes per hour) should be used. 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.

Product name: RENOCLEAN MSO 3004 UK

Skin protection

Hand Protection: Nitrile butyl rubber (NBR). 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: Seek advice from local supervisor. Ensure good ventilation/exhaustion at the workplace. Avoid breathing vapour/ aerosol.

Thermal hazards: No data available.

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

Physical state:	liquid
Form:	liquid
Color:	Yellow
Odor:	Characteristic
Odor Threshold:	No data available.
pH:	9,8 (20 g/l)
Freezing point:	No data available.
Boiling Point:	No data available.
Flash Point:	No data available.
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%)-:	No data available.
Flammability Limit - Lower (%)-:	No data available.
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Density:	1,03 g/ml (15,00 °C)
Solubility(ies)	
Solubility in Water:	Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.

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Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Flow time	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.
9.2 Other information	No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity:	Stable under normal temperature conditions and recommended use.
10.2 Chemical Stability:	No data available.
10.3 Possibility of Hazardous Reactions:	None under normal conditions.
10.4 Conditions to Avoid:	Avoid heat or contamination.
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: 4.177,94 mg/kg
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Product name: RENOCLEAN MSO 3004 UK

Specified substance(s)

Monoethanol amine prim. alkanolamine/ carboxylic acid neutralisation product	LD 50 (Rat): 1.515 mg/kg (OECD 401) No data available.
Fatty acid/ MEA- neutralisation product	No data available.
Ethoxylate	LD 50 (Rat): > 500 - 2.000 mg/kg
Caprylamphopropionate	No data available.
alkylammonium carbonate	LD 50 (Rat): 245 mg/kg
Fatty alcohol, ethoxylated	LD 50 (Rat): 200 - 2.000 mg/kg

Dermal

Product: ATEmix: 8.954,01 mg/kg

Specified substance(s)

Monoethanol amine prim. alkanolamine/ carboxylic acid neutralisation product	LD 50 (Rabbit): 2.504 mg/kg (OECD 402) No data available.
Fatty acid/ MEA- neutralisation product	No data available.
Ethoxylate	No data available.
Caprylamphopropionate	No data available.
alkylammonium carbonate	LC 50 (Rat): > 2.001 mg/kg
Fatty alcohol, ethoxylated	No data available.

Inhalation

Product: ATEmix: 89,54 mg/l
Vapour

Specified substance(s)

Monoethanol amine	No data available.
prim. alkanolamine/ carboxylic acid neutralisation product	No data available.
Fatty acid/ MEA- neutralisation product	No data available.
Ethoxylate	No data available.
Caprylamphopropionate	No data available.
alkylammonium carbonate	No data available.
Fatty alcohol, ethoxylated	No data available.

Product name: RENOCLEAN MSO 3004 UK

Repeated dose toxicity

Product: No data available.

Specified substance(s)

Monoethanol amine	No data available.
prim. alkanolamine/ carboxylic acid neutralisation product	No data available.
Fatty acid/ MEA- neutralisation product	No data available.
Ethoxylate	No data available.
Caprylamphopropionate alkylammonium carbonate	No data available. (Rat, Oral, 90 d): 61 mg/kg
Fatty alcohol, ethoxylated	No data available.

Skin Corrosion/Irritation:

Product: No data available.

Specified substance(s)

Monoethanol amine	Corrosive.
prim. alkanolamine/ carboxylic acid neutralisation product	No data available.
Fatty acid/ MEA- neutralisation product	No data available.
Ethoxylate	No data available.
Caprylamphopropionate alkylammonium carbonate	No data available. OECD 404 (Rabbit, 4 h): Corrosive.
Fatty alcohol, ethoxylated	No data available.

Serious Eye Damage/Eye Irritation:

Product: No data available.

Specified substance(s)

Monoethanol amine	Corrosive to skin and eyes.
prim. alkanolamine/ carboxylic acid neutralisation product	No data available.
Fatty acid/ MEA- neutralisation product	No data available.
Ethoxylate	No data available.
Caprylamphopropionate alkylammonium carbonate	No data available. No data available.
Fatty alcohol, ethoxylated	No data available.

Product name: RENOCLEAN MSO 3004 UK

Respiratory or Skin Sensitization:

Product: No data available.

Specified substance(s)

Monoethanol amine	, OECD 406-1 (Guinea Pig) Not a skin sensitizer.
prim. alkanolamine/ carboxylic acid neutralisation product	No data available.
Fatty acid/ MEA- neutralisation product	No data available.
Ethoxylate	No data available.
Caprylamphopropionate	No data available.
alkylammonium carbonate	No data available.
Fatty alcohol, ethoxylated	No data available.

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Monoethanol amine	No data available.
prim. alkanolamine/ carboxylic acid neutralisation product	No data available.
Fatty acid/ MEA- neutralisation product	No data available.
Ethoxylate	No data available.
Caprylamphopropionate	No data available.
alkylammonium carbonate	(OECD 473) None.
Fatty alcohol, ethoxylated	No data available.

In vivo

Product: No data available.

Specified substance(s)

Monoethanol amine	No data available.
prim. alkanolamine/ carboxylic acid neutralisation product	No data available.
Fatty acid/ MEA- neutralisation product	No data available.
Ethoxylate	No data available.
Caprylamphopropionate	No data available.
alkylammonium carbonate	No data available.
Fatty alcohol, ethoxylated	No data available.

Carcinogenicity

Product: No data available.

Product name: RENOCLEAN MSO 3004 UK

Specified substance(s)

Monoethanol amine	No data available.
prim. alkanolamine/ carboxylic acid neutralisation product	No data available.
Fatty acid/ MEA- neutralisation product	No data available.
Ethoxylate	No data available.
Caprylamphopropionate	No data available.
alkylammonium carbonate	No data available.
Fatty alcohol, ethoxylated	No data available.

Reproductive toxicity

Product: No data available.

Specified substance(s)

Monoethanol amine	No data available.
prim. alkanolamine/ carboxylic acid neutralisation product	No data available.
Fatty acid/ MEA- neutralisation product	No data available.
Ethoxylate	No data available.
Caprylamphopropionate	No data available.
alkylammonium carbonate	No data available.
Fatty alcohol, ethoxylated	No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

Monoethanol amine	No data available.
prim. alkanolamine/ carboxylic acid neutralisation product	No data available.
Fatty acid/ MEA- neutralisation product	No data available.
Ethoxylate	No data available.
Caprylamphopropionate	No data available.
alkylammonium carbonate	No data available.
Fatty alcohol, ethoxylated	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Product name: RENOCLEAN MSO 3004 UK

Specified substance(s)

Monoethanol amine	No data available.
prim. alkanolamine/ carboxylic acid neutralisation product	No data available.
Fatty acid/ MEA- neutralisation product	No data available.
Ethoxylate	No data available.
Caprylamphopropionate	No data available.
alkylammonium carbonate	No data available.
Fatty alcohol, ethoxylated	No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

Monoethanol amine	No data available.
prim. alkanolamine/ carboxylic acid neutralisation product	No data available.
Fatty acid/ MEA- neutralisation product	No data available.
Ethoxylate	No data available.
Caprylamphopropionate	No data available.
alkylammonium carbonate	No data available.
Fatty alcohol, ethoxylated	No data available.

Other Adverse Effects: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

Monoethanol amine	LC 50 (Fish, 96 h): 125 mg/l
prim. alkanolamine/ carboxylic acid neutralisation product	No data available.
Fatty acid/ MEA- neutralisation product	No data available.
Ethoxylate	LC 50 (Fish, 96 h): > 10,1 mg/l
Caprylamphopropionate	No data available.
alkylammonium carbonate	LC 50 (Fish, 96 h): 0,28 mg/l
Fatty alcohol, ethoxylated	LC 50 (Fish, 96 h): > 101 mg/l

Product name: RENOCLEAN MSO 3004 UK

Aquatic Invertebrates

Product:	No data available.
Specified substance(s)	
Monoethanol amine	EC 50 (Water Flea, 48 h): 65 mg/l
prim. alkanolamine/ carboxylic acid neutralisation product	No data available.
Fatty acid/ MEA- neutralisation product	No data available.
Ethoxylate	EC 50 (Water Flea, 48 h): > 10,1 mg/l (OECD 202)
Caprylamphopropionate	No data available.
alkylammonium carbonate	No data available.
Fatty alcohol, ethoxylated	EC 50 (Water Flea, 48 h): > 101 mg/l

Chronic Toxicity

Fish

Product:	No data available.
Specified substance(s)	
Monoethanol amine	NOEC (Fish, 30 d): 1,2 mg/l
prim. alkanolamine/ carboxylic acid neutralisation product	No data available.
Fatty acid/ MEA- neutralisation product	No data available.
Ethoxylate	No data available.
Caprylamphopropionate	No data available.
alkylammonium carbonate	NOEC (Fish, 33 d): 0,018 mg/l (OECD 210)
Fatty alcohol, ethoxylated	No data available.

Aquatic Invertebrates

Product:	No data available.
Specified substance(s)	
Monoethanol amine	NOEC (Water Flea, 21 d): 0,85 mg/l (OECD 211)
prim. alkanolamine/ carboxylic acid neutralisation product	No data available.
Fatty acid/ MEA- neutralisation product	No data available.
Ethoxylate	No data available.
Caprylamphopropionate	No data available.
alkylammonium carbonate	NOEC (Water Flea, 21 d): 0,027 mg/l (OECD 211)
Fatty alcohol, ethoxylated	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
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Product name: RENOCLEAN MSO 3004 UK

Specified substance(s)

Monoethanol amine prim. alkanolamine/ carboxylic acid neutralisation product	EC 50 (Alga, 72 h): 22 mg/l No data available.
Fatty acid/ MEA- neutralisation product	No data available.
Ethoxylate	EC 50 (Alga, 72 h): > 10,1 mg/l
Caprylamphopropionate	No data available.
alkylammonium carbonate	No data available.
Fatty alcohol, ethoxylated	EC 50 (Alga, 72 h): > 101 mg/l

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

Monoethanol amine prim. alkanolamine/ carboxylic acid neutralisation product	> 90 % (21 d, OECD 301A) The product is easily biodegradable. No data available.
Fatty acid/ MEA- neutralisation product	No data available.
Ethoxylate	No data available.
Caprylamphopropionate	No data available.
alkylammonium carbonate	96 % (28 d, OECD 301B) Readily biodegradable
Fatty alcohol, ethoxylated	No data available.

12.3 Bioaccumulative Potential

Product: No data available.

Specified substance(s)

Monoethanol amine prim. alkanolamine/ carboxylic acid neutralisation product	No data available. No data available.
Fatty acid/ MEA- neutralisation product	No data available.
Ethoxylate	No data available.
Caprylamphopropionate	No data available.
alkylammonium carbonate	No data available.
Fatty alcohol, ethoxylated	No data available.

12.4 Mobility in Soil: No data available.

Known or predicted distribution to environmental compartments

Product name: RENOCLEAN MSO 3004 UK

Monoethanol amine	No data available.
prim. alkanolamine/ carboxylic acid neutralisation product	No data available.
Fatty acid/ MEA- neutralisation product	No data available.
Ethoxylate	No data available.
Caprylamphopropionate	No data available.
alkylammonium carbonate	No data available.
Fatty alcohol, ethoxylated	No data available.

12.5 Results of PBT and vPvB assessment: No data available.

Monoethanol amine	No data available.
prim. alkanolamine/ carboxylic acid neutralisation product	No data available.
Fatty acid/ MEA- neutralisation product	No data available.
Ethoxylate	No data available.
Caprylamphopropionate	No data available.
alkylammonium carbonate	No data available.
Fatty alcohol, ethoxylated	No data available.

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

General information: Dispose in accordance with all applicable regulations.

Disposal methods: 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.

European Waste Codes

12 03 01*: aqueous washing liquids

Product name: RENOCLEAN MSO 3004 UK

SECTION 14: Transport information

ADR/RID

14.1 UN Number:	UN 3267
14.2 UN Proper Shipping Name:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.(ETHANOL 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:	–

ADN

14.1 UN Number:	UN 3267
14.2 UN Proper Shipping Name:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.(ETHANOL 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:	UN 3267
14.2 UN Proper Shipping Name:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.(ETHANOL 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:	UN 3267
14.2 Proper Shipping Name:	Corrosive liquid, basic, organic, n.o.s.(ETHANOL 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 MARPOL73/78 and the IBC Code: not applicable.

Product name: RENOCLEAN MSO 3004 UK

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

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 R-phrases and H-statements in section 2 and 3

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.
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.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R22	Harmful if swallowed.
R34	Causes burns.
R36	Irritating to eyes.
R36/37/38	Irritating to eyes, respiratory system and skin.
R36/38	Irritating to eyes and skin.
R43	May cause sensitisation by skin contact.
R50	Very toxic to aquatic organisms.

Training information: Follow training instructions when handling this material.

Other information: The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies. The classification results from the Conventional Method mentioned in regulation EU 1272/2008 (CLP).

Revision Date: 13.05.2015

Product name: RENOCLEAN MSO 3004 UK

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.