

# 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: ECOCOOL MM

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

Identified uses: Coolant/ Cutting solution

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:** Product Safety department Telephone: +44 (0) 1782 203700

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

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** 

Serious eye irritation Category 2 H319: Causes serious eye irritation.

**Hazard summary** 

**Physical Hazards:** No data available.

# 2.2 Label Elements

Issue Date: 30.10.2013 Revision Date: 23.04.2019

Print date: 14.05.2020

Version: 4.2





Signal Words: Warning

Hazard Statement(s): H319: Causes serious eye irritation.

**Precautionary Statements** 

**Prevention:** P262: Do not get in eyes, on skin, or on clothing.

**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 of mineral base oil, anionic and nonionic agents and corrosion

preventing additives in combination with stabilizers based on glycol-fatty alcohols. This product is applied only as solution or emulsion in water.

Chemical name	Identifier	Concentration *	REACH Registration No.	Notes
tert. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	1,00 - <5,00%		
tert. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	1,00 - <5,00%		
Fatty alcohol, ethoxylated	EC: 500-201-8	1,00 - <3,00%		
Boric acid	EINECS: 233-139-2	0,10 - <5,50%	01-2119486683-25	**

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

Issue Date: 30.10.2013 Revision Date: 23.04.2019 Print date: 14.05.2020

Print date: 14.05.2020 SDS\_GB - EN - 00000000601388262

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.
\*\* Regulation (EC) No. 1907/2006, REACH Article 59(1). Candidate List

<sup>(\*)</sup> Neutralisation product: Equilibrium of Ionic Pairs in aequous solution according to REACH Annex V, 4.



#### Classification

Chemical name	Identifier	Classification	
tert. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	CLP:	Acute Tox. 4;H302, Acute Tox. 3;H311, Acute Tox. 3;H331, Flam. Liq. 3;H226, Eye Irrit. 2;H319, Skin Irrit. 2;H315
tert. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	CLP:	Acute Tox. 4;H302, Acute Tox. 4;H312, Eye Irrit. 2;H319, Skin Irrit. 2;H315
Fatty alcohol, ethoxylated	EC: 500-201-8	CLP:	Acute Tox. 4;H302, Aquatic Chronic 3;H412, Eye Dam. 1;H318
Boric acid	EINECS: 233-139-2	CLP:	Repr. 1B;H360FD

CLP: Regulation No. 1272/2008.

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 Note L of Annex VI of Regulation EC 1272/2008."

# **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:** Wash with soap and water.

**Ingestion:** Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and

delayed:

Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Hand over this safety data sheet to the physician with the special comment "watermiscible cutting oil". 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.

Issue Date: 30.10.2013 Revision Date: 23.04.2019 Print date: 14.05.2020 SDS\_GB - EN - 000000000601388262

Revision Date: 23.04.2019 Version: 4.2
Print date: 14.05.2020



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 inaccordance 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:

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:

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. 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. Store above freezing.

7.3 Specific end use(s): Not applicable

Storage Class: 10-13, combustible / non-combustible liquids and solids

Issue Date: 30.10.2013 Revision Date: 23.04.2019 Print date: 14.05.2020

SDS\_GB - EN - 000000000601388262

Version: 4.2



### **SECTION 8: Exposure controls/personal protection**

# **8.1 Control Parameters**

**Occupational Exposure Limits** 

None of the components have assigned exposure limits.

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 inhandling the chemicals or the mineral oil products.

Eye/face protection: Safety glasses (EN 166) recommended during refilling. 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: >= 480 min

Recommended thickness of the material: >= 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**

Issue Date: 30.10.2013 Revision Date: 23.04.2019

SDS\_GB - EN - 000000000601388262

Version: 4.2 Print date: 14.05.2020



9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state: liquid Form: liquid

Color: Yellow-orange Odor: Characteristic

Odor Threshold: Not applicable for mixtures

9,6 (50 g/l)

Freezing point: Not applicable for mixtures

**Boiling Point:** Not applicable Flash Point: Not applicable

**Evaporation Rate:** Not applicable for mixtures

Flammability (solid, gas): Value not relevant for classification Flammability Limit - Upper (%)-: Value not relevant for classification Flammability Limit - Lower (%)-: Value not relevant for classification

Vapor pressure: Not applicable for mixtures Vapor density (air=1): Not applicable for mixtures

Density: 1,01 g/ml (15,00 °C)

Solubility(ies)

Solubility in Water: Soluble

Solubility (other): No data available.

Partition coefficient (n-octanol/water): Not applicable for mixtures

**Autoignition Temperature:** Value not relevant for classification **Decomposition Temperature:** Value not relevant for classification

35 mm2/s (40 °C) Kinematic viscosity:

**Explosive properties:** Value not relevant for classification Oxidizing properties: Value not relevant for classification

9.2 Other information No data available.

**SECTION 10: Stability and reactivity** 

10.1 Reactivity: Stable under normal use conditions.

10.2 Chemical Stability: Stable under normal use conditions.

10.3 Possibility of hazardous

reactions:

Stable under normal use conditions.

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 Thermal decomposition or combustion may liberate carbon oxides and

**Products:** other toxic gases or vapors.

SECTION 11: Toxicological information

SDS\_GB - EN - 000000000601388262

Information on likely routes of exposure

Issue Date: 30.10.2013 Revision Date: 23.04.2019

Version: 4.2 Print date: 14.05.2020



Inhalation: No data available.

Ingestion: No data available.

**Skin Contact:** No data available.

Eye contact: Causes eye irritation.

#### 11.1 Information on toxicological effects

**Acute toxicity** 

Oral

**Product:** ATEmix: 11.215 mg/kg

Specified substance(s)

tert. alkanolamine, ionic equilibrium with acids

LD 50 (Rat): 1.320 mg/kg

tert. alkanolamine, ionic

equilibrium with acids

LD 50 (Rat): 600 mg/kg

Boric acid LD 50 (Rat, Male): 3.450 mg/kg (OECD 401)

Dermal

**Product:** ATEmix: 8.445 mg/kg

Specified substance(s)

tert. alkanolamine, ionic equilibrium with acids

LD 50 (Guinea Pig): 855 mg/kg

tert, alkanolamine, ionic equilibrium with acids

LD 50 (Rabbit): 1.680 mg/kg

Inhalation

**Product:** ATEmix: 96,04 mg/l

Vapour

Specified substance(s)

Boric acid LC 50 (Rat, Female, Male, 4 h): > 2,12 mg/l (OECD 403)

**Skin Corrosion/Irritation:** 

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

Serious Eye Damage/Eye Irritation:

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

Respiratory or Skin Sensitization:

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

Respiratory sensitizer: Based on available data, the classification criteria

are not met.

Specified substance(s)

Boric acid

No sensitizing effect (guinea pig); OECD 406

Issue Date: 30.10.2013 Revision Date: 23.04.2019

Print date: 14.05.2020

SDS\_GB - EN - 000000000601388262



**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)

tert. alkanolamine, ionic equilibrium with acids

LC 50 (Fish, 96 h): 147 mg/l

tert. alkanolamine, ionic equilibrium with acids

LC 50 (Fish, 96 h): 29 mg/l

Boric acid LC 50 (Fish, 96 h): 456 mg/l

Aquatic Invertebrates Specified substance(s)

tert. alkanolamine, ionic equilibrium with acids

EC 50 (Water Flea, 48 h): 165 mg/l

tert. alkanolamine, ionic equilibrium with acids

EC 50 (Water Flea, 48 h): 73,7 mg/l

Boric acid EC 50 (Water Flea, 48 h): 133 mg/l

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

Toxicity to Aquatic Plants Specified substance(s)

tert. alkanolamine, ionic equilibrium with acids

EC 50 (Alga, 72 h): 44 mg/l

Issue Date: 30.10.2013 Revision Date: 23.04.2019 Print date: 14.05.2020

SDS\_GB - EN - 000000000601388262

Revision Date: 23.04.2019 Version: 4.2



tert. alkanolamine, ionic equilibrium with acids

EC 50 (Alga, 72 h): 3,2 mg/l

Boric acid EC 50 (Alga, 72 h): 229 mg/l

12.2 Persistence and Degradability

Biodegradation

**Product:** Not applicable for mixtures

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.

**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 01 09\*: machining emulsions and solutions free of halogens

# **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:

Revision Date: 23.04.2019 Print date: 14.05.2020

Issue Date: 30.10.2013

SDS\_GB - EN - 000000000601388262

Version: 4.2



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:

**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

15.2 Chemical safety

No Chemical Safety Assessment has been carried out.

assessment:

**SECTION 16: Other information** 

SDS\_GB - EN - 000000000601388262

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

Issue Date: 30.10.2013 Revision Date: 23.04.2019

Version: 4.2 Print date: 14.05.2020



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

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H360FD May damage fertility. May damage the unborn child. 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.

23.04.2019 **Revision Date:** 

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.

Issue Date: 30.10.2013 Revision Date: 23.04.2019 Print date: 14.05.2020

SDS\_GB - EN - 000000000601388262