

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 MB

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 +44 (0) 1782 203700

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

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

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

Health Hazards

Skin irritation Category 2 H315: Causes skin irritation.

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

Hazard summary

Physical Hazards: No data available.

2.2 Label Elements

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Signal Words: Warning

Hazard Statement(s): H315: Causes skin irritation.

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
Base oil, low viscous	EINECS: 265-157-1	20,00 - <50,00%	01-2119484627-25	
Na sulphonate	EINECS: 271-781-5	5,00 - <10,00%	01-2119527859-22	
Glycol derivative	EINECS: 203-961-6	1,00 - <5,00%	01-2119475104-44	
Morpholin derivative, ionic equilibrium with acids	Neutralisation product (*)	1,00 - <5,00%		
Fatty acid/MEA-neutralisation product, ethoxylated	Neutralisation product (*)	1,00 - <5,00%		
Potassium hydroxide	EINECS: 215-181-3	0,50 - <1,00%	01-2119487136-33	

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.PBT: persistent, bioaccumulative and toxic substance.

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vPvB: very persistent and very bioaccumulative substance.

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



Classification

Chemical name	Identifier	Class	Classification	
Base oil, low viscous	EINECS: 265-157-1	CLP:	Asp. Tox. 1;H304	
Na sulphonate	EINECS: 271-781-5	CLP:	Eye Irrit. 2;H319	
Glycol derivative	EINECS: 203-961-6	CLP:	Eye Irrit. 2;H319	
Morpholin derivative, ionic equilibrium with acids	Neutralisation product (*)	CLP:	Acute Tox. 4;H302, Acute Tox. 4;H332, Eye Irrit. 2;H319, Skin Irrit. 2;H315	
Fatty acid/MEA-neutralisation product, ethoxylated	Neutralisation product (*)	CLP:	Eye Irrit. 2;H319	
Potassium hydroxide	EINECS: 215-181-3	CLP:	Acute Tox. 4;H302, Skin Corr. 1A;H314, Met. Corr. 1;H290	

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: Immediately flush with plenty of water for at least 15 minutes while

removing contaminated clothing and shoes. Wash contaminated clothing

before reuse. Get medical attention.

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

4.2 Most important symptoms and effects, both acute and

delayed:

Causes serious eye irritation. Causes skin irritation.

4.3 Indication of any immediate medical attention and special treatment needed

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

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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 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:

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:

Avoid contact with eyes. Wash hands thoroughly after handling. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Avoid contact with skin. Prevent formation of aerosols. Observe good industrial hygiene practices. Provide adequate ventilation.

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, Combustible liquids

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SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

occupational Exposure Emitte						
Chemical name	Туре	Exposure Limit Values		Source		
Glycol derivative	TWA	10 ppm	67,5 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)		
Glycol derivative	STEL	15 ppm	101,2 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)		

8.2 Exposure controls

Appropriate engineering

controls:

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

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 inhered in the chamicals or the mineral oil products.

be adhered to inhandling the chemicals or the mineral oil products.

Eye/face protection: Safety glasses (EN 166) recommended during refilling. Avoid contact with

eyes.

Skin protection

Hand Protection: Material: Nitrile butyl 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.

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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: Brown

Odor: Characteristic

Odor Threshold: Not applicable for mixtures

:Ha 9,6 (30 g/l)

Freezing point: Not applicable for mixtures

Boiling Point: No data available.

Flash Point: > 100 °C

Evaporation Rate: Not applicable for mixtures

Flammability (solid, gas): Value not relevant for classification

Flammability Limit - Upper (%)-: Not applicable for mixtures Flammability Limit - Lower (%)-: Not applicable for mixtures Vapor pressure: Not applicable for mixtures Vapor density (air=1): Not applicable for mixtures

Density: 0,91 g/cm3 (15 °C)

Solubility(ies)

Solubility in Water: Soluble

Solubility (other): No data available.

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

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

Kinematic viscosity: 45 mm2/s (40 °C)

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

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10.6 Hazardous Decomposition

Products:

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation: No data available.

Ingestion: No data available.

Skin Contact: Causes skin irritation.

Eye contact: Causes eye irritation.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: ATEmix: 18.518 mg/kg

Specified substance(s)

Base oil, low viscous LD 50 (Rat): > 5.000 mg/kg (OECD 423)

Glycol derivative LD 50 (Rat): 3.384 mg/kg

Morpholin derivative,

ionic equilibrium with

acids

LD 50 (Rat): 550 mg/kg

Potassium hydroxide LD 50 (Rat): 365 mg/kg

Dermal

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Base oil, low viscous LD 50 (Rabbit): > 5.000 mg/kg (OECD 402)

Glycol derivative LD 50 (Rabbit): 2.700 mg/kg

Inhalation

Product: ATEmix: 370,37 mg/l

Vapour

Skin Corrosion/Irritation:

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

Serious Eye Damage/Eye Irritation:

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

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Respiratory or Skin Sensitization:

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

met.

Respiratory sensitizer: Based on available data, the classification criteria

are not met.

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, low viscous LC 50 (Fish, 96 h): > 101 mg/l (OECD 203)

Glycol derivative LC 50 (Fish, 96 h): 1.300 mg/l

Morpholin derivative, ionic equilibrium with

acids

LC 50 (Fish, 96 h): 101 mg/l

Fatty acid/MEA-

neutralisation product,

ethoxylated

LC 50 (Fish, 96 h): 4,2 - 5,1 mg/l

Potassium hydroxide LC 50 (Fish, 96 h): 75 mg/l

Aquatic Invertebrates Specified substance(s)

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Base oil, low viscous EC 50 (Water Flea, 48 h): > 10.000 mg/l (OECD 202)

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Glycol derivative EC 50 (Water Flea, 48 h): > 101 mg/l

Fatty acid/MEAneutralisation product,

ethoxylated

EC 50 (Water Flea, 48 h): 2,4 - 3,2 mg/l

Potassium hydroxide EC 50 (Water Flea, 48 h): 30 mg/l

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

Toxicity to Aquatic Plants Specified substance(s)

Base oil, low viscous EC 50 (Alga, 72 h): > 101 mg/l

EC 50 (Alga, 96 h): > 101 mg/l Glycol derivative

Morpholin derivative, ionic equilibrium with

acids

EC 50 (Alga, 72 h): 4,4 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

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SECTION 14: Transport information

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

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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 H-statements in section 2 and 3

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

H332 Harmful if inhaled.

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.

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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

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