

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: MOD ECOCOOL GLOBAL 10

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 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 irritation Category 2 H319: Causes serious eye irritation.

Environmental Hazards

Acute hazards to the aquatic Category 1 H40

environment

Category 1 H400: Very toxic to aquatic life.

Chronic hazards to the aquatic Category 1

H410: Very toxic to aquatic life with long lasting

effects.

Hazard summary

environment

Physical Hazards: No data available.

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2.2 Label Elements



Signal Words: Warning

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

H319: Causes serious eye irritation.

H410: Very toxic 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.

Disposal: P501: Dispose of contents/ container to an approved facility in accord-

ance with local, regional, national and international regulations.

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 envi-

ronment without control.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: Mixture of mineral base oil, anionic and nonionic agents and corrosion pre-

venting additives in combination with stabilizers based on glycol-fatty alco-

hols. This product is applied only as solution or emulsion in water.

Chemical name	Identifier	Concentration *	UK-REACH Regis- tration No.	Notes
base oil, paraffinic	EINECS: 265-159-2	20,00% - <50,00%		
Glycerol	EINECS: 200-289-5	1,00% - <5,00%		
tert. alkylamine, ionic equilibrium with acids	Neutralisation product (*)	2,50% - <5,00%		
prim. alkanol amine	EINECS: 201-162-7	1,00% - <3,00%		
acid, ionic equilibrium with organic bases	Neutralisation product (*)	1,00% - <5,00%		
alkylamine, ionic equilibrium with acids	Neutralisation product (*)	1,00% - <5,00%		

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

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



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Classification

Chemical name	Identifier	Classification	
base oil, paraffinic	EINECS: 265-159-2	GBCLP:	Asp. Tox. 1;H304
Glycerol	EINECS: 200-289-5	GBCLP:	
tert. alkylamine, ionic equilibrium with acids	Neutralisation product (*)	GBCLP:	Acute Tox. 4;H302, Eye Irrit. 2;H319, Skin Irrit. 2;H315, Aquatic Acute 1;H400, Aquatic Chronic 1;H410; M-Factor (aquatic acute): 10; M-Factor (aquatic chronic): 10
prim. alkanol amine	EINECS: 201-162-7	GBCLP:	Skin Corr. 1B;H314, Acute Tox. 4;H312, Eye Dam. 1;H318
acid, ionic equilibrium with organic bases	Neutralisation product (*)	GBCLP:	Eye Irrit. 2;H319, Aquatic Acute 1;H400, Aquatic Chronic 3;H412
alkylamine, ionic equilibrium with acids	Neutralisation product (*)	GBCLP:	Acute Tox. 4;H302, Eye Irrit. 2;H319, Aquatic Chronic 3;H412

GB-CLP

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.

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 remov-

ing contaminated clothing and shoes. Wash contaminated clothing before

reuse. Get medical attention.

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

well.

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 spe-

cial 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

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5.1 Extinguishing media

Suitable extinguishing me-

dia:

CO2, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant add-

ed

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 proce-

dures:

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:

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 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.

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7.2 Conditions for safe storage, including any incompatibili-

ties:

Local regulations concerning handling and storage of waterpolluting prod-

ucts have to be followed. Store above freezing.

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	Туре	Exposure Limit Values	Source
Glycerol - Mist.	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (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 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 equip-

ment 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 ad-

hered to inhandling 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: >= 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 manufactur-

er of the protective gloves and has to be observed.

Other: Do not carry cleaning cloths impregnated with the product in trouser pock-

ets. Wear suitable protective clothing.

Respiratory Protection: Ensure good ventilation/exhaustion at the workplace. Avoid breathing va-

pour/ aerosol.

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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 foot-

wear 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:liquidForm:liquidColor:Orange

Odor: Characteristic
pH: 9,5 (5 %, 20 °C)
Freezing point: not determined
Boiling Point: not determined
Flash Point: Not applicable

Evaporation Rate: Not applicable for mixtures

Flammability (solid, gas): not determined

Flammability Limit - Upper (%)—: Not applicable for mixtures
Flammability Limit - Lower (%)—: Not applicable for mixtures
Vapor pressure: Not applicable for mixtures
Relative vapor density: Not applicable for mixtures

Density: 0,98 g/cm3 (15 °C)

Solubility(ies)

Solubility in Water: Soluble

Solubility (other):No data available.

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

Auto-ignition temperature:not determinedDecomposition Temperature:not determinedKinematic viscosity:55 mm2/s (40 °C)

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

Particle characteristics:Not applicable9.2 Other informationNo 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 Stable under normal use conditions.

reactions:

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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 oth-

Products: er toxic gases or vapors.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation: No data available.

No data available. Ingestion:

Skin Contact: Causes skin irritation.

Eye contact: Causes eye irritation.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: ATEmix: 7.190 mg/kg

Specified substance(s)

base oil, paraffinic LD 50 (Rat): > 5.000 mg/kg

Glycerol LD 50 (Rat): 12.600 mg/kg

prim. alkanol amine LD 50 (Rat): 2.700 mg/kg

alkylamine, ionic equilib-

rium with acids

LD 50 (Rat): 301 - 2.000 mg/kg

Dermal

Product: ATEmix: 19.600 mg/kg

Specified substance(s)

base oil, paraffinic LD 50 (Rabbit): > 5.000 mg/kg

Glycerol LD 50 (Rabbit): > 18.700 mg/kg

prim. alkanol amine LD 50 (Rabbit): 1.600 mg/kg

Inhalation

Product: ATEmix: 292,13 mg/l

Specified substance(s)

base oil, paraffinic LC 50 (Rat, 4 h): > 5 mg/l

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

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

General information: Not applicable

12.1 Toxicity

Acute toxicity

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

Fish

Product: EC 50 (Fish, 96 h): 2,96 mg/l

Aquatic Invertebrates

Product: EC 50 (Water Flea, 48 h): 0,38 mg/l

Chronic Toxicity

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

Aquatic Invertebrates

Product: NOEC (Water Flea): 1 mg/l

Toxicity to Aquatic Plants Specified substance(s)

EC 50 (Alga, 72 h): 32,7 mg/l prim. alkanol amine

12.2 Persistence and Degradability

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Product name: MOD ECOCOOL GLOBAL 10

Biodegradation

Product: Not applicable for mixtures

Specified substance(s)

Glycerol Readily biodegradable

prim. alkanol amine Readily biodegradable

alkylamine, ionic equilib-

rium with acids

(OECD 301B) Readily biodegradable

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 crite-

ria.

12.6 Other adverse effects: The classification of this product is based all or in part on test data. Very

toxic to aquatic life with long lasting effects.

Water Hazard Class

(WGK):

WGK 2: significantly water-endangering. WGK 3: severely 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. Do not allow to enter drains, sewers or watercourses.

List of Waste (LoW) Codes

12 01 09*: machining emulsions and solutions free of halogens

SECTION 14: Transport information

ADR/RID

14.1 UN number or ID number: UN 3082

14.2 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.(tert. alkylamine, ionic equilibrium with acids)

14.3 Transport Hazard Class(es)

Class: 9
Label(s): 9
Hazard No. (ADR): 90
Tunnel restriction code: (-)
14.4 Packing Group: III

14.5 Environmental hazards: Dangerous for the environment

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14.6 Special precautions for user: -

IMDG

14.1 UN number or ID number: UN 3082

14.2 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.(tert. alkylamine, ionic equilibrium with acids)

14.3 Transport Hazard Class(es)

Class: 9
Label(s): 9
EmS No.: F-A, S-F

14.3 Packing Group:

14.5 Environmental hazards: Marine pollutant

14.6 Special precautions for user: -

IATA

14.1 UN number or ID number: UN 3082

14.2 Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.(tert. alkyla-

mine, ionic equilibrium with acids)

14.3 Transport Hazard Class(es):

Class: 9
Label(s): 9MI

14.4 Packing Group: III

14.5 Environmental hazards: Dangerous for the environment

14.6 Special precautions for user: -

Amounts up to 5kg or 5 L are not regulated, (ADR/RID SP 375, IMDG 2.10.2.7, IATA SP A197)

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 as-

No Chemical Safety Assessment has been carried out.

sessment:

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DIRECTIVE Control of Major Accident Hazards Regulations 2015:

The product falls into the scope of the Control of Major Accident Hazards Regulations 2015.

Hazard category in accordance with GB-CLP	Qualifying quantity for the application of Lower-tier requirements:	Qualifying quantity for the application of Upper-tier requirements:	
E1: E1. Hazardous to the aquatic environment	100 t	200 t	
E1: E1. Hazardous to the aquatic environment	100 t	200 t	

SECTION 16: Other information

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

Wording of the H-statements in section 2 and 3

g or the n-st	atements in Section 2 and 3
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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
	and the second s

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 simi-

lar mixtures"; Expert Judgement

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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 safety data sheets. This document was issued electronically and has no sig-

nature.

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