

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: ECOCOOL GLOBAL 1000

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

Chronic hazards to the aquatic Category 3 H412: Harmful to aquatic life with long lasting

environment effects.

nonnent en

Hazard summary

Physical Hazards: No data available.

2.2 Label Elements

Issue Date: 22.10.2018 Revision Date: 16.01.2023 Print date: 30.06.2023

SDS_GB - EN - 000000000601453335

1/12



Product name: ECOCOOL GLOBAL 1000



Signal Words: Warning

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

H319: Causes serious eye irritation.

H412: Harmful 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 appropriate treatment and

disposal facility in accordance with applicable laws and regulations,

and product characteristics at time of disposal.

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.

Issue Date: 22.10.2018 Revision Date: 16.01.2023 Print date: 30.06.2023

SDS_GB - EN - 000000000601453335



Product name: ECOCOOL GLOBAL 1000

Chemical name	Identifier	Concentration *	UK-REACH Regis- tration No.	Notes
acid, ionic equilibrium with organic bases	Neutralisation product (*)	1,00% - <5,00%		
Glycerol	EINECS: 200-289-5	1,00% - <5,00%		
acid, ionic equilibrium with organic bases	Neutralisation product (*)	2,50% - <5,00%		
prim. triamine, ionic equilibrium with acids				
prim. alkanol amine	EINECS: 201-162-7	1,00% - <3,00%		
prim. Alkanol amine	EINECS: 204-709-8	1,00% - <5,00%		
prim. alkanolamine, ionic equilibri- Neutralisation product (*) um with acids		1,00% - <5,00%		

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

Classification

Chemical name	Identifier	Classifi	cation
acid, ionic equilibrium with organic bases	Neutralisation product (*)	GBCLP:	Eye Irrit. 2;H319, Skin Irrit. 2;H315
Glycerol	EINECS: 200-289-5	GBCLP:	
acid, ionic equilibrium with organic bases	Neutralisation product (*)	GBCLP:	Aquatic Chronic 2;H411, Eye Irrit. 2;H319
prim. triamine, ionic equilibrium with acids	Neutralisation product (*)	GBCLP:	Acute Tox. 4;H302, Acute Tox. 4;H312, Eye Irrit. 2;H319, Aquatic Chronic 2;H411
prim. alkanol amine	EINECS: 201-162-7	GBCLP:	Skin Corr. 1B;H314, Acute Tox. 4;H312, Eye Dam. 1;H318
prim. Alkanol amine	EINECS: 204-709-8	GBCLP:	Skin Irrit. 2;H315, Eye Irrit. 2;H319, Aquatic Chronic 3;H412
prim. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	GBCLP:	Skin Irrit. 2;H315, Acute Tox. 4;H302, Eye Irrit. 2;H319

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 Note L 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.

Issue Date: 22.10.2018 Revision Date: 16.01.2023

Print date: 30.06.2023 SDS_GB - EN - 00000000601453335

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.



Product name: ECOCOOL GLOBAL 1000

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 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 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 mix-

ture:

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.

Issue Date: 22.10.2018 Revision Date: 16.01.2023 Print date: 30.06.2023

SDS_GB - EN - 000000000601453335



Product name: ECOCOOL GLOBAL 1000

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 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.

Issue Date: 22.10.2018 Revision Date: 16.01.2023 Print date: 30.06.2023

SDS_GB - EN - 000000000601453335



Product name: ECOCOOL GLOBAL 1000

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.

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: liquid Form: liquid Color: Amber

Odor: Characteristic pH: 9,4 (10 %) 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: 0,99 g/cm3 (15 °C)

Issue Date: 22.10.2018 Revision Date: 16.01.2023

SDS_GB - EN - 000000000601453335

Version: 2.3 Print date: 30.06.2023

6/12



Product name: ECOCOOL GLOBAL 1000

Solubility(ies)

Solubility in Water: Soluble

Solubility (other): No data available.

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

Autoignition Temperature:not determinedDecomposition Temperature:not determinedKinematic viscosity:65 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

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

Products:

Thermal decomposition or combustion may liberate carbon oxides and oth-

er 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: 15.647 mg/kg

Issue Date: 22.10.2018 Revision Date: 16.01.2023 Print date: 30.06.2023

SDS_GB - EN - 000000000601453335



Product name: ECOCOOL GLOBAL 1000

Specified substance(s)

Glycerol LD 50 (Rat): 12.600 mg/kg

prim. triamine, ionic equi-

librium with acids

LD 50 (Rat): 550 mg/kg

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

prim. alkanolamine, ionic equilibrium with acids

LD 50 (Rat, female): 550 mg/kg

Dermal

Product: ATEmix: 32.388 mg/kg

Specified substance(s)

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

prim. triamine, ionic equi-

librium with acids

LD 50 (Rat): > 1.000 mg/kg (OECD 402)

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

Inhalation

Product: Not classified for acute toxicity based on available data.

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.

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.

Issue Date: 22.10.2018 Revision Date: 16.01.2023 Print date: 30.06.2023

SDS_GB - EN - 000000000601453335

8/12



Product name: ECOCOOL GLOBAL 1000

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)

acid, ionic equilibrium with organic bases

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

Glycerol LC 50 (Fish, 96 h): > 10.000 mg/l

prim. triamine, ionic equi-

librium with acids

LC 50 (Fish, 96 h): > 100 mg/l (OECD 203)

prim. Alkanol amine LC 50 (Fish, 96 h): 184 mg/l (OECD 203)

prim. alkanolamine, ionic

equilibrium with acids

LC 50 (Fish, 96 h): 68 mg/l (OECD 203)

Aquatic Invertebrates Specified substance(s)

acid, ionic equilibrium with organic bases

EC 50 (Water Flea, 48 h): > 1.000 mg/l

EC 50 (Water Flea, 96 h): > 10.000 mg/l Glycerol

prim. alkanol amine EC 50 (Water Flea, 48 h): 108,8 mg/l

prim. Alkanol amine EC 50 (Water Flea, 48 h): 193 mg/l (OECD 202)

prim. alkanolamine, ionic

equilibrium with acids

EC 50 (Water Flea, 48 h): 44 mg/l (OECD 202)

Chronic Toxicity

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

Aquatic Invertebrates Specified substance(s)

acid, ionic equilibrium with organic bases

NOEC (Water Flea, 21 d): 4,78 mg/l

Toxicity to Aquatic Plants Specified substance(s)

prim. triamine, ionic equilibrium with acids

EC 50 (Alga, 72 h): 4,4 mg/l (OECD 201)

Issue Date: 22.10.2018

Revision Date: 16.01.2023 Version: 2.3 Print date: 30.06.2023

SDS_GB - EN - 000000000601453335 9/12



Product name: ECOCOOL GLOBAL 1000

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

EC 50 (Alga, 72 h): 565,5 mg/l (OECD 201) prim. Alkanol amine

12.2 Persistence and Degradability

Biodegradation

Product:

Not applicable for mixtures

Specified substance(s) Glycerol

Readily biodegradable

prim. triamine, ionic equi-

librium with acids

< 5 % (28 d, OECD 301F) Not easily biodegradable

prim. alkanol amine Readily biodegradable

89,3 % (28 d, OECD 301F) Readily biodegradable prim. Alkanol amine

prim. alkanolamine, ionic equilibrium with acids

100 % (28 d, OECD 301F) Readily biodegradable

12.3 Bioaccumulative potential

Product:

Not applicable for mixtures

Specified substance(s)

prim. Alkanol amine

Bioconcentration Factor (BCF): < 1

prim. alkanolamine, ionic

equilibrium with acids

Bioconcentration Factor (BCF): 2,8

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: Harmful to aquatic life with long lasting effects.

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: Discharge, treatment, or disposal may be subject to national, state, or local

laws.

List of Waste (LoW) Codes

Issue Date: 22.10.2018 Revision Date: 16.01.2023

Version: 2.3 Print date: 30.06.2023 SDS_GB - EN - 000000000601453335

10/12



Product name: ECOCOOL GLOBAL 1000

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

SECTION 14: Transport information ADR/RID 14.1 UN number or ID 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: **IMDG** 14.1 UN number or ID 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 or ID 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:

GB Regulations

The Ozone-Depleting Substances and Fluorinated Greenhouse Gases (Amendment etc.) (EU Exit) Regulations 2019:

none

Issue Date: 22.10.2018 Revision Date: 16.01.2023 Print date: 30.06.2023

SDS_GB - EN - 000000000601453335



Product name: ECOCOOL GLOBAL 1000

The Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2020:

none

15.2 Chemical safety as-

sessment:

No Chemical Safety Assessment has been carried out.

DIRECTIVE Control of Major Accident Hazards Regulations 2015:

The product does not fall into the scope of the Control of Major Accident Hazards Regulations 2015.

SECTION 16: Other information

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

Wording of the H-statements in section 2 and 3

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.
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 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

Revision Date: 16.01.2023

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.

Issue Date: 22.10.2018 Revision Date: 16.01.2023

Print date: 30.06.2023 SDS_GB - EN - 00000000601453335

vision Date: 16.01.2023 Version: 2.3