

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 20

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 environment	Category 1	H400: Very toxic to aquatic life.
Chronic hazards to the aquatic environment	Category 1	H410: Very toxic to aquatic life with long lasting effects.

Hazard summary

Physical Hazards: No data available.

2.2 Label Elements

Product name: ECOCOOL GLOBAL 20



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 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.

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.

Product name: ECOCOOL GLOBAL 20

Chemical name	Identifier	Concentration *	UK-REACH Registration No.	Notes
acid, ionic equilibrium with organic bases	Neutralisation product (*)	5,00% - <10,00%		
prim. alkylamine, ionic equilibrium with acids	Neutralisation product (*)	2,50% - <5,00%		
prim. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	1,00% - <5,00%		
prim. Alkanol amine	EINECS: 213-195-4	1,00% - <3,00%		
prim. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	1,00% - <5,00%		
tert. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	1,00% - <5,00%		
acid, ionic equilibrium with organic bases	Neutralisation product (*)	1,00% - <2,50%		
acid, ionic equilibrium with organic bases	Neutralisation product (*)	1,00% - <5,00%		

* 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 GB-REACH Annex V, 4.

Classification

Chemical name	Identifier	Classification
acid, ionic equilibrium with organic bases	Neutralisation product (*)	GBCLP: Eye Irrit. 2;H319, Skin Irrit. 2;H315
prim. alkylamine, ionic equilibrium with acids	Neutralisation product (*)	GBCLP: Skin Irrit. 2;H315, Eye Irrit. 2;H319, STOT RE 2;H373, Asp. Tox. 1;H304, Aquatic Acute 1;H400, Aquatic Chronic 1;H410; M-Factor (aquatic acute): 10; M-Factor (aquatic chronic): 10
prim. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	GBCLP: Acute Tox. 4;H302, Acute Tox. 4;H312, Acute Tox. 4;H332, Aquatic Chronic 3;H412, Eye Irrit. 2;H319, Skin Irrit. 2;H315
prim. Alkanol amine	EINECS: 213-195-4	GBCLP: Skin Corr. 1B;H314, Eye Dam. 1;H318
prim. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	GBCLP: Eye Irrit. 2;H319, Skin Irrit. 2;H315
tert. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	GBCLP: Acute Tox. 4;H302, Eye Irrit. 2;H319, Skin Irrit. 2;H315, STOT RE 2;H373
acid, ionic equilibrium with organic bases	Neutralisation product (*)	GBCLP: Aquatic Chronic 2;H411, Eye Irrit. 2;H319
acid, ionic equilibrium with organic bases	Neutralisation product (*)	GBCLP: 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

Product name: ECOCOOL GLOBAL 20

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 or doctor/ physician 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

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 in accordance 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.

Product name: ECOCOOL GLOBAL 20

SECTION 6: Accidental release measures

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| 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:

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|--|---|
| 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: | 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

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.

Product name: ECOCOOL GLOBAL 20

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:	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: $\geq 0,38$ 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

9.1 Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Amber
Odor:	Characteristic
pH:	9,6 (5 %)
Freezing point:	not determined
Boiling Point:	not determined
Flash Point:	Not applicable

Product name: ECOCOOL GLOBAL 20

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/cm ³ (15 °C)
Solubility(ies)	
Solubility in Water:	Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable for mixtures
Autoignition Temperature:	not determined
Decomposition Temperature:	not determined
Kinematic viscosity:	30 mm ² /s (40 °C)
Explosive properties:	Value not relevant for classification
Oxidizing properties:	Value not relevant for classification
Particle characteristics:	Not applicable
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 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.

Product name: ECOCOOL GLOBAL 20

11.1 Information on toxicological effects

Acute toxicity

Oral

Product:	ATEmix: 40.589 mg/kg
Specified substance(s) prim. alkanolamine, ionic equilibrium with acids	LD 50 (Rat): 1.515 mg/kg (OECD 401)
prim. Alkanol amine	LD 50 (Rat, Female, Male): 3.400 mg/kg
prim. alkanolamine, ionic equilibrium with acids	LD 50 (Rat): 3.400 mg/kg
tert. alkanolamine, ionic equilibrium with acids	LD 50 (Rat): 2.000 mg/kg (OECD 423)
acid, ionic equilibrium with organic bases	LD 50 (Rat): > 5.000 mg/kg (OECD 423)

Dermal

Product:	ATEmix: 36.974 mg/kg
Specified substance(s) prim. alkanolamine, ionic equilibrium with acids	LD 50 (Rabbit): 2.504 mg/kg (OECD 402)

Inhalation

Product:	ATEmix: 369,75 mg/l Vapour Vapour
Specified substance(s) prim. Alkanol amine	LC 50 (Rat, Female, Male, 8 h): > 8,7 mg/l Vapour

Skin Corrosion/Irritation:

Product:	Based on available data, the classification criteria are met.
Specified substance(s) prim. Alkanol amine	OECD 404 (Rabbit): Corrosive.

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.
Specified substance(s) prim. Alkanol amine	No sensitizing effect (guinea pig); OECD 406

Product name: ECOCOOL GLOBAL 20

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

Specified substance(s)

acid, ionic equilibrium
with organic bases LC 50 (Fish, 96 h): 101 mg/l

prim. alkylamine, ionic
equilibrium with acids LC 50 (Fish, 96 h): > 0,011 - 0,1 mg/l (OECD 203)

prim. alkanolamine, ionic
equilibrium with acids LC 50 (Fish, 96 h): 125 mg/l

prim. Alkanol amine LC 50 (Fish, 96 h): 460 mg/l

prim. alkanolamine, ionic
equilibrium with acids LC 50 (Fish, 96 h): 460 mg/l

tert. alkanolamine, ionic
equilibrium with acids LC 50 (Fish, 96 h): > 101 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

Product name: ECOCOOL GLOBAL 20

prim. alkanolamine, ionic equilibrium with acids	EC 50 (Water Flea, 48 h): 65 mg/l
prim. Alkanol amine	EC 50 (Water Flea, 48 h): 189 mg/l
prim. alkanolamine, ionic equilibrium with acids	EC 50 (Water Flea, 48 h): 189 mg/l
tert. alkanolamine, ionic equilibrium with acids	EC 50 (Water Flea, 48 h): 163 mg/l (OECD 202)
acid, ionic equilibrium with organic bases	EC 50 (Water Flea, 48 h): > 100 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. alkylamine, ionic equilibrium with acids	EC 50 (Alga, 48 h): > 0,011 - 0,1 mg/l (OECD 201)
prim. alkanolamine, ionic equilibrium with acids	EC 50 (Alga, 72 h): 22 mg/l
prim. Alkanol amine	EC 50 (Alga, 72 h): 202 mg/l
prim. alkanolamine, ionic equilibrium with acids	EC 50 (Alga, 72 h): 202 mg/l
tert. alkanolamine, ionic equilibrium with acids	EC 50 (Alga, 72 h): 12,5 mg/l (OECD 201)
acid, ionic equilibrium with organic bases	ErC50 (Alga, 72 h): 1,9 mg/l (OECD 201)

12.2 Persistence and Degradability**Biodegradation**

Product: Not applicable for mixtures

Specified substance(s)

prim. Alkanol amine 84 % (28 d, OECD 302B) Readily biodegradable

12.3 Bioaccumulative potential

Product: Not applicable for mixtures

Product name: ECOCOOL GLOBAL 20

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:

Very toxic to aquatic life with long lasting effects.

Water Hazard Class (WGK):

WGK 2: significantly 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.(prim. 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
14.6 Special precautions for user:	—

Product name: ECOCOOL GLOBAL 20

IMDG

14.1 UN number or ID number:	UN 3082
14.2 UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(prim. 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:	III
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.(prim. alkylamine, 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 assessment:

No Chemical Safety Assessment has been carried out.

Product name: ECOCOOL GLOBAL 20

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

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.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
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 similar mixtures"; Expert Judgement

Revision Date: 16.01.2023

Product name: ECOCOOL GLOBAL 20

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.