

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 GRINDSTAR BF

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 Schmierstoffe GmbH
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68169 Mannheim

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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

Product name: ECOCOOL GRINDSTAR BF



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
tert. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	1,00 - <5,00%		
tert. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	1,00 - <5,00%		
Organic polysulphide	EINECS: 270-335-7	1,00 - <5,00%	01-2119540516-41	
Glycol derivative	EINECS: 205-592-6	1,00 - <3,00%	01-2119475107-38	
Monoethanol amine	EINECS: 205-483-3	1,00 - <3,00%	01-2119486455-28	

* 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 REACH Annex V, 4.

Product name: ECOCOOL GRINDSTAR BF

Classification

Chemical name	Identifier	Classification
tert. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	CLP: Acute Tox. 4;H302, Acute Tox. 4;H312, Acute Tox. 4;H332, 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
Organic polysulphide	EINECS: 270-335-7	CLP: Aquatic Chronic 4;H413
Glycol derivative	EINECS: 205-592-6	CLP: Eye Dam. 1;H318
Monoethanol amine	EINECS: 205-483-3	CLP: Skin Corr. 1B;H314, Eye Dam. 1;H318, STOT SE 3;H335, Acute Tox. 4;H302, Acute Tox. 4;H312, Acute Tox. 4;H332, Aquatic Chronic 3;H412

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: Change clothes and shoes contaminated or soaked by the product. Never put rags contaminated by the product into clothing pockets.

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

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: No data available.

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: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Prevent from spreading (e.g. by binding or oil barriers).

6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust).

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.

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. Prevent formation of aerosols.

7.3 Specific end use(s): not applicable

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

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SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
tert. alkanolamine - Inhalable fraction.	MAK	5 mg/m ³	Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG) (2011)
Organic polysulphide - Inhalable fraction.	MAK	100 mg/m ³	Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG) (2011)
Fatty alcohol	AGW	20 ppm 200 mg/m ³	Germany. TRGS 900, Occupational Exposure Limits (AGW) (01 2012)
Monoethanol amine - Vapor and aerosol.	AGW	0,2 ppm 0,5 mg/m ³	Germany. TRGS 900, Occupational Exposure Limits (AGW) (11 2016)

8.2 Exposure controls

Appropriate engineering controls:

Good general ventilation (typically 10 air changes per hour) should be used. 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 in handling 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).
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:

Seek advice from local supervisor. Ensure good ventilation/exhaustion at the workplace. Avoid breathing vapour/ aerosol.

Thermal hazards:

Not known.

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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:	Yellow-orange
Odor:	Characteristic
Odor Threshold:	Not applicable for mixtures
pH:	9,5 (DIN 51369, 50 g/l, 20 °C)
Freezing point:	Not applicable for mixtures
Boiling Point:	Value not relevant for classification
Flash Point:	not applicable
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:	1,01 g/ml (15,00 °C) (DIN 51757)
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
Kinematic viscosity:	55 mm ² /s (40 °C, DIN 51562-1)
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 temperature conditions and recommended use.
10.2 Chemical Stability:	No data available.
10.3 Possibility of hazardous reactions:	None under normal conditions.
10.4 Conditions to avoid:	Avoid heat or contamination.

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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.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: ATEmix: 6.282 mg/kg

Specified substance(s)

tert. alkanolamine, ionic
equilibrium with acids LD 50 (Rat): 446 mg/kg

tert. alkanolamine, ionic
equilibrium with acids LD 50 (Rat): 600 mg/kg

Glycol derivative LD 50 (Rat): 6.730 mg/kg

Monoethanol amine LD 50 (Rat): 1.515 mg/kg (OECD 401)

Dermal

Product: ATEmix: 12.650 mg/kg

Specified substance(s)

tert. alkanolamine, ionic
equilibrium with acids LD 50 (Rabbit): 2.000 mg/kg

tert. alkanolamine, ionic
equilibrium with acids LD 50 (Rabbit): 1.680 mg/kg

Glycol derivative LD 50 (Rabbit): 3.540 mg/kg

Monoethanol amine LD 50 (Rabbit): 2.504 mg/kg (OECD 402)

Inhalation

Product: ATEmix: 1.000 mg/l
Vapour
ATEmix: 500 mg/l
Dusts, mists and fumes

Product name: ECOCOOL GRINDSTAR BF

Skin Corrosion/Irritation:

Product: Based on available data, the classification criteria are met.
Specified substance(s)
 Monoethanol amine
 Corrosive.

Serious Eye Damage/Eye Irritation:

Product: Based on available data, the classification criteria are met.
Specified substance(s)
 Monoethanol amine
 Corrosive to skin and eyes.

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)
 Monoethanol amine
 , OECD 406-1 (Guinea Pig)
 Not a skin sensitizer.

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): 29 mg/l

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Glycol derivative LC 50 (Fathead minnow (Pimephales promelas), 96 h): 2.400 mg/l

Monoethanol amine LC 50 (Fish, 96 h): 125 mg/l

Aquatic Invertebrates

Specified substance(s)

tert. alkanolamine, ionic
equilibrium with acids EC 50 (Water Flea, 48 h): 73,7 mg/l

Glycol derivative EC 50 (Water Flea, 48 h): > 500 mg/l

Monoethanol amine EC 50 (Water Flea, 48 h): 65 mg/l

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

Fish

Specified substance(s)

Monoethanol amine NOEC (Fish, 30 d): 1,2 mg/l

Aquatic Invertebrates

Specified substance(s)

Monoethanol amine NOEC (Water Flea, 21 d): 0,85 mg/l (OECD 211)

Toxicity to Aquatic Plants

Specified substance(s)

tert. alkanolamine, ionic
equilibrium with acids EC 50 (Alga, 72 h): 3,2 mg/l

Glycol derivative EC 50 (Alga, 72 h): 612,6 mg/l

Monoethanol amine EC 50 (Alga, 72 h): 22 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.

Product name: ECOCOOL GRINDSTAR BF

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:	—
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:	—

Product name: ECOCOOL GRINDSTAR BF

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

National Regulations

Water Hazard Class (WGK): WGK 1: slightly water-endangering.

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

- | | |
|------|---|
| 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. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H413 | May cause long lasting harmful effects to aquatic life. |

Training information: Follow training instructions when handling this material.

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.

Product name: ECOCOOL GRINDSTAR BF

Revision Date: 14.07.2017

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.