

SAFETY DATA SHEET

acc.to ISO/DIS 11014 for USA

1 PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name: ECOCOOL 2215 BF

Other means of identification: For further information, please refer to section 9 of the SDS.

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

Fuchs Schmierstoffe GmbH
Friesenheimer Str. 19
68169 Mannheim

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1.4 US contact telephone : 708-333-8900

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2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to the legislation in force.

Health Hazards

Skin Corrosion/Irritation Category 2

Serious Eye Damage/Eye Irritation Category 2A

Hazard summary

Physical Hazards: No data available.

Product name: ECOCOOL 2215 BF

2.2 Label Elements



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.

Unknown toxicity: Due to information available product does not contain any ingredients of unknown toxicity.

3 COMPOSITION / INFORMATION ON INGREDIENTS

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 *	Notes
tert. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	1.00 - <5.00%	
carboxylic acid derivative, ethoxylated	85536-23-8	1.00 - <5.00%	
acid, ionic equilibrium with organic bases	Neutralisation product (*)	1.00 - <5.00%	
prim. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	1.00 - <5.00%	
Fatty alcohol, ethoxylated	68920-66-1	1.00 - <5.00%	
prim. Alkanol amine	929-06-6	1.00 - <3.00%	

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

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vPvB: very persistent and very bioaccumulative substance.

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

Classification

Chemical name	Classification	
tert. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	Acute Tox. 4;H302, Acute Tox. 4;H312, Eye Irrit. 2;H319, Skin Irrit. 2;H315
carboxylic acid derivative, ethoxylated	85536-23-8	Skin Irrit. 2;H315, Aquatic Chronic 3;H412
acid, ionic equilibrium with organic bases	Neutralisation product (*)	, Eye Irrit. 2;H319
prim. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	Aquatic Chronic 3;H412
Fatty alcohol, ethoxylated	68920-66-1	Skin Irrit. 2;H315, Aquatic Acute 1;H400, Aquatic Chronic 3;H412
prim. Alkanol amine	929-06-6	Skin Corr. 1B;H314

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 CENTRE/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

Product name: ECOCOOL 2215 BF

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.

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.

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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

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1.Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
Base oil, naphthenic	PEL	500 ppm 2,000 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Base oil, naphthenic - Mist.	PEL	5 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Base oil, naphthenic	TWA	400 ppm 1,600 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Base oil, naphthenic - Mist.	TWA	5 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Base oil, naphthenic - Inhalable fraction.	TWA	5 mg/m ³	US. ACGIH Threshold Limit Values (03 2014)
tert. alkanolamine	TWA	5 mg/m ³	US. ACGIH Threshold Limit Values (02 2012)
Rapeseed Oil - Total dust.	PEL	15 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Rapeseed Oil - Respirable fraction.	PEL	5 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Rapeseed Oil - Total dust.	TWA	15 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Rapeseed Oil - Respirable fraction.	TWA	5 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

8.2.Exposure controls

Product name: ECOCOOL 2215 BF

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 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).
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: No data available.

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.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Product name: ECOCOOL 2215 BF

Physical state:	liquid
Form:	liquid
Color:	Light brown
Odor:	Characteristic
Odor Threshold:	Not applicable for mixtures
pH:	9.4 (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:	0.94 g/cm ³ (15 °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:	58 mm ² /s (40 °C)
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 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.

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.

Acute toxicity

Oral

Product: ATEmix: 6,454.28 mg/kg

Specified substance(s)

tert. alkanolamine, ionic equilibrium with acids	LD 50 (Rat): 600 mg/kg
carboxylic acid derivative, ethoxylated	LD 50 (Rat): > 2,001 mg/kg
acid, ionic equilibrium with organic bases	LD 50 (Rat): 6,176 mg/kg
prim. alkanolamine, ionic equilibrium with acids	LD 50 (Rat): > 2,001 mg/kg
prim. Alkanol amine	LD 50 (Rat, Female, Male): 3,400 mg/kg

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Dermal

Product:

ATEmix: 9,676.54 mg/kg

Specified substance(s)

tert. alkanolamine, ionic
equilibrium with acids

LD 50 (Rabbit): 1,680 mg/kg

carboxylic acid derivative,
ethoxylated

LD 50 (Rat): > 2,001 mg/kg

prim. alkanolamine, ionic
equilibrium with acids

LD 50 (Rabbit): > 2,001 mg/kg

prim. Alkanol amine

LD 50 (Rabbit, Female, Male): > 3,000 mg/kg

Inhalation

Product:

Not classified for acute toxicity based on available data.

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 not met.

Specified substance(s)

Fatty alcohol, ethoxylated

OECD 404 (Rabbit): Irritating.

prim. Alkanol amine

OECD 404 (Rabbit): Corrosive.

Serious Eye Damage/Eye Irritation:

Product:

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

Specified substance(s)

Fatty alcohol, ethoxylated

OECD 405 (Rabbit): Not irritant.

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)

Fatty alcohol, ethoxylated

No sensitizing effect (guinea pig); OECD 406

prim. Alkanol amine

No sensitizing effect (guinea pig); OECD 406

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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.

IARC: IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

NTP: US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

OSHASp: US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

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.

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

carboxylic acid derivative,
ethoxylated LC 50 (Fish, 96 h): 2.9 mg/l (OECD 203)

acid, ionic equilibrium
with organic bases LC 50 (Fish, 96 h): 15 mg/l

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Fatty alcohol, ethoxylated LC 50 (Fish, 96 h): 1.3 mg/l

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

Aquatic Invertebrates

Specified substance(s)

tert. alkanolamine, ionic
equilibrium with acids EC 50 (Water Flea, 48 h): 73.7 mg/l

carboxylic acid derivative,
ethoxylated EC 50 (Water Flea, 48 h): 3.8 mg/l (OECD 202)

acid, ionic equilibrium
with organic bases EC 50 (Water Flea, 48 h): 22.5 mg/l

prim. Alkanol amine EC 50 (Water Flea, 48 h): 189 mg/l

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

Aquatic Invertebrates

Specified substance(s)

carboxylic acid derivative,
ethoxylated NOEC (Water Flea, 21 d): 0.4 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

carboxylic acid derivative,
ethoxylated EC 50 (Alga, 72 h): 410 mg/l

acid, ionic equilibrium
with organic bases EC 50 (Alga, 72 h): 62.9 mg/l

prim. Alkanol amine EC 50 (Alga, 72 h): 202 mg/l

12.2 Persistence and Degradability

Biodegradation

Product: Not applicable for mixtures

Product name: ECOCOOL 2215 BF

Specified substance(s)

carboxylic acid derivative, ethoxylated Readily biodegradable

Fatty alcohol, ethoxylated 95 % (7 d, OECD 302B) Readily biodegradable

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

12.6 Other adverse effects:

No data available.

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.

14 TRANSPORT INFORMATION

DOT

Not regulated.

IMDG - International Maritime Dangerous Goods Code

Not regulated.

IATA

Not regulated.

15 REGULATORY INFORMATION

US Federal Regulations

US State Regulations

Product name: ECOCOOL 2215 BF

Inventory Status

DSL	On or in compliance with the inventory
NDSL	Not in compliance with the inventory.
TSCA	On or in compliance with the inventory

16 OTHER INFORMATION

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

Wording of the R-phrases and 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.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Revision Date: 06.06.2017

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.