



Section 1. Identification of substance/mixture and of the company/undertaking.

1.1 Product identifier:

Product name: eni aquamet SBH

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: Eni Schmiertechnik GmbH
 Paradiesstr. 14, D-97080 Würzburg
 Tel. (+ 49) 931 - 900 98-0 Fax (+ 49) 931-98442
 Advising/Support: Technical Department, Tel. (+49) 931 900 98-142
 technik.wuerzburg@agip.de
 www.enischmiertechnik-datenblaetter.de

Section 2. Hazards identification.

2.1 Classification of the substance or mixture: The product has not been classified as hazardous, but needs to be labelled according to Regulation (EU) 1272/2008 (CLP).

Hazard summary:

Physical hazards: No data available

2.2 Label elements: EUH210 – Safety data sheet available on request

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: Mineral oil free mixture of corrosion preventive agents and glycols. This product is applied only as solution or emulsion in water.

Chemical name	Concentration*	Identifier	REACH Registration No.	Notes
prim. alkanolamine, ionic equilibrium with acids	5,00 - < 10,00 %	Neutralisation product (*)		
Triazole derivative	1,00 - < 2,5%	EINECS: 202-394-1	01-2119979079-20	
Acid, ionic equilibrium with organic bases	1,00 - < 5,00%	Neutralisation product (*)		

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

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	Identifier	Classification	
prim. alkanolamine, ionic equilibrium with acids	Neutralisation product (*)	CLP	Eye Irrit. 2; H319, Skin Irrit. 2; H315
Triazole derivative	EINECS: 202-394-1	CLP	Acute Tox. 4; H302, Eye Irrit. 2; H319, Aquatic Chronic 2; H411
acid, ionic equilibrium with organic bases	Neutralisation product (*)	CLP	Acute Tox. 4; H302, Eye Irrit. 2; H319, Skin Irrit. 2; H315

CLP: Regulation No. 1272/2008

The full text for all R-phrases and H-statements is displayed in section 16

Section 4. First aid measures.

General information: 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: Promptly wash eyes with plenty of water while lifting the eye lids.



Skin contact:	Wash with soap and water.
Ingestion:	Rinse mouth thoroughly.
4.2 Most important symptoms and effects, both acute and delayed:	May cause skin and eye 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 "water miscible cutting oil". Get medical attention if symptoms occur.

Section 5. Fire fighting measures.

5.1 Extinguishing media:	
Suitable extinguishing agents:	CO2, extinguishing powder or fog like water spraying. Fight larger fires with alcohol resistant foam or spray water with suitable tensides added.
Unsuitable extinguishing agents:	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 fire-fighters:	
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:	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 Measures and material for containment and cleaning up:	Absorb with liquid binding material (sand, diatomite, acid binders, universal binders or 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 MSDS for personal protective equipment. See section 7 for information on safe handling. See section 13 for information on disposal.

Section 7. Handling and Storage.

7.1 Precautions for safe handling:	Prevent formation of aerosols. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Observe good industrial hygiene practices. Provide adequate ventilation.
7.2 Conditions for safe storage, including any incompatibilities:	Local regulations concerning handling and storage of water polluting products have to be followed. Store above freezing.
7.3 Specific end use(s):	No data available
Storage class:	10 - 13, combustible / non-combustible liquids and solids

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.



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.
Skin protection:	
Hand protection:	Nitrile butyl rubber (NBR). Min. Breakthrough time: \geq 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 accordance to safety directions. The exact breakthrough 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/aerosols.
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

Section 9. Physical and chemical properties.

9.1 Information on basic physical and chemical properties:

Appearance:	
Physical state:	Liquid
Form:	Liquid
Colour:	Yellow
Odour:	Characteristic
Odour threshold:	Not applicable for mixtures
pH:	9,1 (50 g/l, 20°C)
Freezing point:	Not applicable for mixtures
Boiling point:	Value not relevant for classification
Flashpoint:	No 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
Vapour pressure:	Not applicable for mixtures
Vapour density (air=1):	Not applicable for mixtures
Density at 15°C:	1,11 g/cm ³
Solubility(ies):	
Solubility in water:	Soluble
Solubility (other):	No data available
Partition coefficient (n-octanol/water):	Not applicable for mixtures
Auto ignition temperature:	Value not relevant for classification
Decomposition temperature:	Value not relevant for classification
Kin. Viscosity at 40°C:	65 mm ² /s
Explosive properties:	Value not relevant for classification
Oxidising 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 oxidising substances, strong acids, strong bases.
 10.6 Hazardous decomposition products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Section 11. Toxicological information.

11.1 Information on toxicological effects:

Acute toxicity:

Oral:

Product:

ATEmix: 34.471 mg/kg

Specified substance(s):

prim. alkanolamine, ionic equilibrium with acids: LD 50 (Rat): 3.400 mg/kg

Triazole derivative: LD 50 (Rat): 560 mg/kg

Acid, ionic equilibrium with organic bases: LD 50 (Rat): 1.100 mg/kg

Dermal:

Product:

ATEmix: 122.222,22 mg/kg

Specified substance(s):

prim. alkanolamine, ionic equilibrium with acids: LD 50 (Rabbit): > 3.000 mg/kg

Triazole derivative: LD 50 (Rabbit): > 2.000 mg/kg

Acid, ionic equilibrium with organic bases: LD 50 (Rabbit): > 2.001 mg/kg

Inhalation:

Product:

ATEmix: 1.222,22 mg/l

Vapour

Skin corrosion/irritation:

Product:

Based on available data, the classification criteria are not met

Serious eye damage/eye irritation:

Product:

Based on available data, the classification criteria are not met

Respiratory or skin sensitisation:

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

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):	prim. alkanolamine, ionic equilibrium with acids: LC 50 (Fish, 96 h): 460 mg/l Triazole derivative: LC 50 (Fish, 96 h): 180 mg/l Acid, ionic equilibrium with organic bases: LC 50 (Fish, 96 h): 122 mg/l
Aquatic invertebrates:	
Specified substance(s):	prim. alkanolamine, ionic equilibrium with acids: EC 50 (Water flea, 48 h): 189 mg/l Triazole derivative: EC 50 (Water flea, 48 h): 15,8 mg/l Acid, ionic equilibrium with organic bases: EC 50 (Water flea, 48 h): 68 mg/l
Chronic toxicity:	
Product:	Based on available data, the classification criteria are not met
Aquatic invertebrates:	
Specified substance(s):	Triazole derivative: NOEC (Water flea, 21 d): 0,97 mg/l
Toxicity to aquatic plants:	
Specified substance(s):	prim. alkanolamine, ionic equilibrium with acids: EC 50 (Alga, 72 h): 202 mg/l Triazole derivative: EC 50 (Alga, 72 h): 72 mg/l (OECD 201) Acid, ionic equilibrium with organic bases: EC 50 (Alga, 72 h): 81 mg/l
12.2 Persistence and degradability:	
Biodegradation:	
Product:	Not applicable for mixtures
Specified substance(s):	Triazole derivative: 0,8% (30 d) The product is heavily biodegradable
12.3 Bioaccumulative potential:	
Product:	Not applicable for mixtures
Specified substance(s):	Triazole derivative: Bioconcentration factor (BCF): 4,14
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):	1 – slightly hazardous to water

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:	Non-dangerous goods
ADN:	Non-dangerous goods
IMDG:	Non-dangerous goods
IATA:	Non-dangerous goods
14.7 Transport in bulk according to Annex II of MARPOL 73/78 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



15.2 Chemical safety assessments: No chemical safety assessment has been carried out.

Section 16. Other information.

This information relates only to the specific product and may not be valid if the product is used in combination with any other material or in any process.

The informations in this sheet are according to our best knowledge at the date of printing.

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies. The classification results from the Conventional Method mentioned in regulation EU 1272/2008 (CLP).

Wording of the R-phrases and H-statements in section 2 and 3:

H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H411	Toxic to aquatic life with long lasting effects

Changes: 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 16