



SAFETY DATA SHEET

according to DAO 2015-09

Eni aquamet OSL - FF

Material number 636

Revision date: 9/30/2022

Version: 3.0

Language: en-DE

Date of print: 9/30/2022

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

Product identifier

Trade name: Eni aquamet OSL - FF

Relevant identified uses of the substance or mixture and uses advised against

General use: Metalworking fluid.

Details of the supplier of the safety data sheet

Company name: Eni Schmiertechnik GmbH

Street/POB-No.: Paradiesstraße 14

Postal Code, city: DE-97080 Würzburg

WWW: www.enischmiertechnik.de

E-mail: info.wuerzburg@eni.com

Telephone: +49 (0)931-90098-0

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Department responsible for information:

Application Engineering & Product Management (AEPM)

Telephone: +49 (0)931-90098-0

E-mail: technik.wuerzburg@eni.com

2. Hazards identification

Classification of the substance or mixture

GHS classification

Skin Sens. 1 May cause an allergic skin reaction.

Label elements



Signal word: **Warning**

Hazard statements: May cause an allergic skin reaction.

Precautionary statements:

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.

Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash hands and face thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection.

If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

Dispose of contents/container to hazardous or special waste collection point.

Other hazards

Special danger of slipping by leaking/spilling product.



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3. Composition/information on ingredients

Mixtures

Chemical characterisation: A mixture of base oils and additives.

Hazardous ingredients:

CAS No.	Designation	Content	Classification
CAS 10043-35-3	Boric acid (SVHC)	< 5.5 %	Repr. 1B; H360FD.
CAS 2634-33-5	1,2-Benzisothiazol-3 (2H)-one	0.25 - 0.5 %	Acute Tox. 4; H302. Skin Irrit. 2; H315. Eye Dam. 1; H318. Skin Sens. 1; H317. Aquatic Acute 1; H400 (M-factor = 1).
CAS 3811-73-2	Pyridine-2-thiol 1-oxide, sodium salt	0.025 - 0.25 %	Acute Tox. 4; H302. Acute Tox. 4; H312. Acute Tox. 4; H332. Skin Irrit. 2; H315. Eye Irrit. 2; H319. Aquatic Acute 1; H400 (M-factor = 100).

Additional information: Information about Boric acid, Specific concentration limits (SCL):
Repr. 1 FD; H360: C ≥ 5.5%

Information about 1,2-Benzisothiazol-3(2H)-one, Specific concentration limits (SCL):
Skin Sens. 1; H317: C ≥ 0.05 %

4. First aid measures

General information:	If medical advice is needed, have product container or label at hand. Take off contaminated clothing and wash it before reuse.
In case of inhalation:	Remove casualty to fresh air and keep warm and at rest. If breathing becomes irregular or ceases, apply rescue breathing or artificial respiration immediately, where required supply oxygen. If unconscious place in recovery position and seek medical advice.
Following skin contact:	Immediately clean with water and soap followed by thorough rinsing. In case of skin reactions, consult a physician.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.
After swallowing:	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Seek medical attention.

Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Firefighting measures

Extinguishing media

Suitable extinguishing media:

Water spray jet, extinguishing powder, foam, sand and carbon dioxide.



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Extinguishing media which must not be used for safety reasons:

Full water jet

Special hazards arising from the substance or mixture

May form dangerous gases and vapours in case of fire.

Furthermore, there may develop: Nitrogen oxides (NO_x), Smoke, carbon monoxide and carbon dioxide.

Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Do not inhale explosion and combustion gases. Remove persons to safety.

Use fine water spray to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely.

Contaminated fire-fighting water must be collected separately. Do not allow water used to extinguish fire to enter drains, ground or waterways.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Do not breathe mist/vapours/spray. Avoid contact with the substance.

Eliminate all ignition sources if safe to do so. Provide adequate ventilation.

Keep unprotected people away.

Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Keep unprotected people away.

Environmental precautions

Do not allow to enter into ground-water, surface water or drains. Do not allow to enter into soil/subsoil.

If necessary notify appropriate authorities.

Methods and material for containment and cleaning up

Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Prevent spread over a wide area (e.g. by containment or oil barriers).

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal.

Never return spills in original containers for re-use.

Additional information:

Special danger of slipping by leaking/spilling product.

7. Handling and storage

Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment.

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

Have eye wash bottle or eye rinse ready at work place.



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Precautions against fire and explosion:

Keep away from sources of ignition - No smoking.

Storage

Requirements for storerooms and containers:

Keep container tightly closed in a cool, well-ventilated place.

Keep container dry. Keep only in the original container.

Protect from heat and direct sunlight. Protect from frost.

storage temperature: 5 - 40 °C (Shelf life: 12 months)

Hints on joint storage:

Do not store together with: Strong oxidizing agents.

Keep away from food, drink and animal feedingstuffs.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
10043-35-3	Boric acid (SVHC)	Germany: TRGS 900 Kurzzeit	1 mg/m ³ (inhalable fraction)
		Germany: TRGS 900 Langzeit	0.5 mg/m ³ (inhalable fraction)
25322-68-3	Polyethylene glycol	Germany: DFG Kurzzeit	500 mg/m ³ (inhalable fraction)
		Germany: DFG Langzeit	250 mg/m ³ (inhalable fraction)
		Germany: TRGS 900 Kurzzeit	400 mg/m ³ (inhalable fraction, Weight-average molecular weight (Mw) 200-600)
		Germany: TRGS 900 Langzeit	200 mg/m ³ (inhalable fraction, Weight-average molecular weight (Mw) 200-600)
3811-73-2	Pyridine-2-thiol 1-oxide, sodium salt	Germany: TRGS 900 Kurzzeit	0.4 mg/m ³ (inhalable fraction; may be absorbed through the skin)
		Germany: TRGS 900 Langzeit	0.2 mg/m ³ (inhalable fraction; may be absorbed through the skin)

Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

See also information in chapter 7, section storage.

Personal protection equipment

Occupational exposure controls

Respiratory protection:

Respiratory protection must be worn whenever the WEL levels have been exceeded. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.



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Hand protection: Protective gloves according to EN 374.
During full contact:
Glove material: nitrile rubber, polychloroprene, chloroprene rubber
Breakthrough time: > 480 min
Layer thickness: 0.7 mm
During splash contact:
Glove material: nitrile rubber, polychloroprene, chloroprene rubber
Breakthrough time: > 30 min
Layer thickness: 0.4 mm
Unsuitable material: polyvinyl alcohol
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:
Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing.
Take off contaminated clothing and wash it before reuse.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Have eye wash bottle or eye rinse ready at work place.

Environmental exposure controls

Refer to 6.: Section "Environmental precautions".

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance: Physical state at 20 °C and 101.3 kPa: liquid
Colour: yellow

Odour: Characteristic
Odour threshold: No data available

pH: at 20 °C, 5%: 9.5 (DIN 51369)

Melting point/freezing point: No data available

Initial boiling point and boiling range: > 100 °C

Flash point/flash point range: > 100 °C (DIN EN ISO 2592)

Evaporation rate: No data available

Flammability: No data available

Explosion limits: No data available

Vapour pressure: No data available

Vapour density: No data available

Density: at 15 °C: 1.14 g/mL (DIN EN ISO 12185)

Water solubility: at 20 °C: Miscible

Partition coefficient: n-octanol/water: Not applicable

Auto-ignition temperature: No data available

Thermal decomposition: No data available

Additional information

Viscosity, kinematic: at 20 °C: approx. 40 mm²/s (DIN EN ISO 3104)

Explosive properties: Product is not explosive.

Oxidizing characteristics: Product has no oxidizing effect.



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10. Stability and reactivity

Reactivity:	Refer to subsection "Possibility of hazardous reactions".
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No hazardous reaction when handled and stored according to provisions.
Conditions to avoid:	Keep away from heat sources, sparks and open flames. Protect from direct sunlight. Protect from frost.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	No dangerous reactions with proper and specified storage and handling
Thermal decomposition:	No data available

11. Toxicological information

Information on toxicological effects

Toxicological effects:	<p>The statements are derived from the properties of the single components. No toxicological data is available for the product as such.</p> <p>Acute toxicity (oral): Based on available data, the classification criteria are not met.</p> <p>Acute toxicity (dermal): Based on available data, the classification criteria are not met.</p> <p>Acute toxicity (inhalative): Based on available data, the classification criteria are not met.</p> <p>Skin corrosion/irritation: Based on available data, the classification criteria are not met.</p> <p>Serious eye damage/irritation: Lack of data.</p> <p>Sensitisation to the respiratory tract: Lack of data.</p> <p>Skin sensitisation: Skin Sens. 1 = May cause an allergic skin reaction.</p> <p>Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.</p> <p>Carcinogenicity: Based on available data, the classification criteria are not met.</p> <p>Reproductive toxicity: Based on available data, the classification criteria are not met.</p> <p>Effects on or via lactation: Lack of data.</p> <p>Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.</p> <p>Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.</p> <p>Aspiration hazard: Based on available data, the classification criteria are not met.</p>
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12. Ecological information

Toxicity

Further details:	No data available
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Persistence and degradability

Further details:	Product is partially biodegradable.
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Mobility in soil

No data available

Additional ecological information

General information: Do not allow to enter into ground-water, surface water or drains.

13. Disposal considerations

Waste treatment methods

Product

Recommendation: Dispose of waste according to applicable legislation.
Do not dispose of with household waste.

Package

Recommendation: Dispose of waste according to applicable legislation.
Handle contaminated packages in the same way as the substance itself.
Empty containers may contain flammable product residues. Do not cut, weld, bore, burn or incinerate emptied containers unless they have been cleaned and declared safe.
Empty containers should be disposed of in accordance with local regulations.

14. Transport information

UN number

ADR/RID, IMDG, IATA-DGR:
not applicable

Sea transport (IMDG)

Proper shipping name: Not restricted
Marine pollutant: no

Air transport (IATA)

Proper shipping name: Not restricted

Further information

No dangerous good in sense of these transport regulations.

15. Regulatory information

National regulations - Philippines

Boric acid:	PICCS: listed
1,2-Benzisothiazol-3(2H)-one:	PICCS: listed
Pyridine-2-thiol 1-oxide, sodium salt:	PICCS: listed

Further regulations, limitations and legal requirements

No data available



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16. Other information

Text for labelling:

Contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: Boric acid.

Contains:

1,2-Benzisothiazol-3(2H)-one

Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

AS/NZS: Australian Standards/New Zealand Standards

CAS: Chemical Abstracts Service

CFR: Code of Federal Regulations

CLP: Classification, Labelling and Packaging

DMEL: Derived minimal effect level

DNEL: Derived no-effect level

EC: European Community

EEC: European Economic Community

EN: European Standard

EQ: Excepted quantities

IATA: International Air Transport Association

IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

IMDG Code: International Maritime Dangerous Goods Code

MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

M-factor: Multiplication factor

OEL: Occupational Exposure Limit Value

OSHA: Occupational Safety and Health Administration

PBT: Persistent, bioaccumulative and toxic

PNEC: Predicted no-effect concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail

SVHC: Substance of very high concern

TLV: Threshold Limit Value

TRGS: Technical Rules for Hazardous Substances

vPvB: Very persistent and very bioaccumulative

WEL: Workplace Exposure Limit

Reason of change:

Changes in section 1: product name

Date of first version:

4/13/2022

Department issuing data sheet

Contact person:

see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

Most recent product information is available at:
<http://sumdat.net/vt23bm69>

