



Eni aquamet LMX – 1026

Material number 916

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 29.7.2026
Version: 1.0
Replaces version: 0.0
Language: en-DE
Date of print: 30.7.2026

Page: 1 of 12

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: Eni aquamet LMX – 1026

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

General use: Metalworking fluid
Lubrication at high energy conditions in metal working operations

1.3 Details of the supplier of the safety data sheet

Company name: Enilive Schmiertechnik GmbH
Street/POB-No.: Paradiesstraße 14
Postcode, city: 97080 Würzburg
Germany
Email: info.wuerzburg@enilive.com
Telephone: +49 (0)931-90098-0
Telefax: +49 (0)931-98442
Department responsible for information:
Application Engineering & Product Management (AEPM)
Telephone: +49 (0)931-90098-0
Email: technik.wuerzburg@enilive.com

1.4 Emergency telephone number

GIZ-Nord, Göttingen
Telephone: +49 (0)551-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

This mixture is classified as not hazardous.

2.2 Label elements

Labelling (CLP)

Hazard statements: not applicable

Precautionary statements: not applicable

Special labelling

EUH208 Contains 2-n-Butyl-benzo[d]isothiazol-3-one. May produce an allergic reaction.
EUH210 Safety data sheet available on request.



Eni aquamet LMX – 1026

Material number 916

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 29.7.2026
Version: 1.0
Replaces version: 0.0
Language: en-DE
Date of print: 30.7.2026

Page: 2 of 12

2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% (w/w) or higher. The product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Mixture of base oils and additives

Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119488970-24-xxxx EC No. 203-312-7 CAS 105-59-9	2,2'-(Methylimino)diethanol Eye Irrit. 2; H319.	5 - < 10 %
EC No. 420-590-7 CAS 4299-07-4	2-n-Butyl-benzo[d]isothiazol-3-one Skin Corr. 1B; H314. Eye Dam. 1; H318. Skin Sens. 1; H317. Aquatic Acute 1; H400. Aquatic Chronic 1; H410. M-factors: Aquatic Acute 1: M = 10. Aquatic Chronic 1: M = 1.	0,1 - < 0,25 %

Full text of H- and EUH-statements: see section 16.

Additional information: Contains: Triethanolamine (CAS 102-71-6). The maximum workplace exposure limits are, where necessary, listed in section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:	If medical advice is needed, have product container or label at hand.
In case of inhalation:	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if problems persist.
Following skin contact:	Immediately clean with water and soap followed by thorough rinsing. Take off contaminated clothing and wash it before reuse. 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 eye irritation 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.



Eni aquamet LMX – 1026

Material number 916

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 29.7.2026
Version: 1.0
Replaces version: 0.0
Language: en-DE
Date of print: 30.7.2026

Page: 3 of 12

4.2 Most important symptoms and effects, both acute and delayed

May cause allergic reactions in already sensitized persons.

4.3 Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Water spray jet, water mist, foam, extinguishing powder, sand, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet.

5.2 Special hazards arising from the substance or mixture

May form dangerous gases and vapours in case of fire.

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

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Do not inhale explosion and combustion gases. Move undamaged containers from immediate hazard area if it can be done safely.

Use fine water spray to cool endangered containers. 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

If possible, eliminate leakage. Provide adequate ventilation.

Wear appropriate protective equipment. Keep unprotected people away.

Take off contaminated clothing and wash it before reuse.

6.2 Environmental precautions

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

If necessary, notify appropriate authorities.

6.3 Methods and material for containment and cleaning up

Cover drains.

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.



Eni aquamet LMX – 1026

Material number 916

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 29.7.2026
Version: 1.0
Replaces version: 0.0
Language: en-DE
Date of print: 30.7.2026

Page: 4 of 12

Additional information: Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 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 put any product-impregnated cleaning rags into your trouser pockets.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.

Precautions against fire and explosion:

Keep away from heat.
When handling larger quantities, take precautionary measures against electrostatic charging.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place.
Keep container dry. Keep only in the original container.
Protect from heat/sunlight and frost. Shield UV light sources.
Store containers in upright position.
Storage temperature: 5 - 40 °C.
Storage stability: 12 months.

Hints on joint storage:

Do not store together with: Oxidizing agents, acids.
Keep away from food, drink and animal feedingstuffs.

Storage class:

10 = Combustible liquids that cannot be assigned to any of the above storage classes

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
105-59-9	2,2'-(Methylimino) diethanol	Germany: TRGS 900 Kurzzeit	0,5 mg/m ³ ; 0,1 ppm
		Germany: TRGS 900 Langzeit	0,5 mg/m ³ ; 0,1 ppm
102-71-6	Triethanolamine	Germany: TRGS 900 Kurzzeit	1 mg/m ³ (inhalable fraction)
		Germany: TRGS 900 Langzeit	1 mg/m ³ (inhalable fraction)

DNEL/DMEL:

Information about Triethanolamine (CAS 102-71-6):
DNEL, workers, inhalative, local, long-term: 1 mg/m³
DNEL, workers, dermal, systemic, long-term: 7,5 mg/kg bw/d
DNEL, workers, dermal, local, long-term: 140 µg/cm²
DNEL, consumers, inhalative, local, long-term: 0,4 mg/m³
DNEL, consumers, dermal, systemic, long-term: 2,66 mg/kg bw/d
DNEL, consumers, dermal, local, long-term: 70 µg/cm²
DNEL, consumers, oral, systemic, long-term: 3,3 mg/kg bw/d
Information about 2,2'-(Methylimino)diethanol (CAS 105-59-9):
DNEL, workers, inhalative, systemic, long-term: 7,9 mg/m³
DNEL, workers, dermal, systemic, long-term: 5,6 mg/kg bw/d
DNEL, workers, dermal, local, long-term: 0,05 mg/cm²
DNEL, consumers, inhalative, local, long-term: 0,4 mg/m³
DNEL, consumers, dermal, systemic, long-term: 0,67 mg/kg bw/d
DNEL, consumers, dermal, local, long-term: 0,006 mg/cm²
DNEL, consumers, oral, systemic, long-term: 0,13 mg/kg bw/d

PNEC:

Information about Triethanolamine (CAS 102-71-6):
PNEC, water (freshwater): 0,32 mg/L
PNEC, water (freshwater, intermittent release): 5,12 mg/L
PNEC, water (marine water): 0,032 mg/L
PNEC, sewage treatment plant: 10 mg/L
PNEC, sediment (freshwater): 1,7 mg/kg dw
PNEC, sediment (marine water): 0,17 mg/kg dw
PNEC, soil: 0,151 mg/kg dw
Information about 2,2'-(Methylimino)diethanol (CAS 105-59-9):
PNEC, water (freshwater): 0,278 mg/L
PNEC, water (freshwater, intermittent release): 1 mg/L
PNEC, water (marine water): 0,028 mg/L
PNEC, sewage treatment plant: 10 mg/L
PNEC, sediment (freshwater): 2,17 mg/kg dw
PNEC, sediment (marine water): 0,217 mg/kg dw
PNEC, soil: 0,27 mg/kg dw

8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

Personal protection equipment

Occupational exposure controls

Respiratory protection: In case of inadequate ventilation wear 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.



Eni aquamet LMX – 1026

Material number 916

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 29.7.2026
Version: 1.0
Replaces version: 0.0
Language: en-DE
Date of print: 30.7.2026

Page: 6 of 12

Hand protection:	Protective gloves according to DIN EN ISO 374-1. Glove material: Nitrile rubber, chloroprene rubber, polyvinyl alcohol Permanent contact: Layer thickness: 0,70 mm Breakthrough time: > 480 min During splash contact: Layer thickness: 0,40 mm Breakthrough time: > 30 min Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Eye protection:	Tightly sealed goggles according to DIN EN ISO 16321-1.
Body protection:	Wear suitable protective clothing.
General protection and hygiene measures:	Do not breathe mist/vapours/spray. Do not put any product-impregnated cleaning rags into your trouser pockets. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.

Environmental exposure controls

Refer to "6.2 Environmental precautions".

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	yellow
Odour:	Characteristic
Melting point/freezing point:	No data available
Boiling point or initial boiling point and boiling range:	> 100 °C
Flammability:	This material is combustible, but will not ignite readily.
Lower and upper explosion limit:	No data available
Flash point:	> 100 °C (DIN EN ISO 2592)
Auto-ignition temperature:	No data available
Decomposition temperature:	Not determined
pH:	at 20 °C, 5%: 9,3 (DIN 51369)
Kinematic viscosity:	at 20 °C: approx. 293 mm ² /s (DIN EN ISO 3104)
Water solubility:	Miscible
Partition coefficient n-octanol/water (log value):	No data available
Vapour pressure:	No data available
Density:	at 15 °C: 0,994 g/mL (DIN EN ISO 12185)
Relative vapour density:	No data available
Particle characteristics:	Not applicable

9.2 Other information

Explosive properties:	No data available
Oxidizing characteristics:	No data available



Eni aquamet LMX – 1026

Material number 916

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 29.7.2026
Version: 1.0
Replaces version: 0.0
Language: en-DE
Date of print: 30.7.2026

Page: 7 of 12

Auto-ignition temperature:

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Refer to subsection "Possibility of hazardous reactions".

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Exothermic reactions with acids.

10.4 Conditions to avoid

Protect from heat/sunlight and frost. Shield UV light sources.

10.5 Incompatible materials

Oxidising agent, acids.

10.6 Hazardous decomposition products

No known hazardous decomposition products.

Thermal decomposition: Not determined



Eni aquamet LMX – 1026

Material number 916

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 29.7.2026
Version: 1.0
Replaces version: 0.0
Language: en-DE
Date of print: 30.7.2026

Page: 8 of 12

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.

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

Contains 2-n-Butyl-benzo[d]isothiazol-3-one. May produce an allergic reaction.

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

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

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

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

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

11.2 Information on other hazards

Endocrine disrupting properties:

None

Other information:

Information about 2,2'-(Methylimino)diethanol (CAS 105-59-9):
LD50 Rat, oral: 4.680 mg/kg (OECD 401)
LD50 Rabbit, dermal: 10.244 mg/kg (OECD 402)

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Information about 2,2'-(Methylimino)diethanol (CAS 105-59-9):
Fish toxicity:
LC50 *Leuciscus idus*: 1.466 mg/L/96h
Daphnia toxicity:
EC50 *Daphnia magna* (Big water flea): 233 mg/L/48h
Algae toxicity:
EC50 *Desmodesmus subspicatus* (green algae): > 100 mg/L/72h (growth rate)

Water Hazard Class: 1 = slightly hazardous to water



Eni aquamet LMX – 1026

Material number 916

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 29.7.2026
Version: 1.0
Replaces version: 0.0
Language: en-DE
Date of print: 30.7.2026

Page: 9 of 12

12.2 Persistence and degradability

Further details: No data available

12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient: n-octanol/water:

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

The product does not contain any substances classified as PBT or vPvB.

12.6 Endocrine disrupting properties

None

12.7 Other adverse effects

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Recommendation: Dispose of waste according to applicable legislation.
Before intended use:
Waste key number:
12 01 07* = Mineral-based machining oils free of halogens (except emulsions and solutions)

* = Evidence for disposal must be provided.

After intended use:

Waste key number:
12 01 09* = Machining emulsions and solutions free of halogens
* = Evidence for disposal must be provided.

Package

Recommendation: Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled.

Section 14. Transport information

14.1 UN number or ID number

ADR/RID, ADN, IMDG, IATA-DGR:

not applicable



Eni aquamet LMX – 1026

Material number 916

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 29.7.2026
Version: 1.0
Replaces version: 0.0
Language: en-DE
Date of print: 30.7.2026

Page: 10 of 12

14.2 UN proper shipping name

ADR/RID, ADN, IMDG, IATA-DGR:

Not restricted

14.3 Transport hazard class(es)

ADR/RID, ADN, IMDG, IATA-DGR:

not applicable

14.4 Packing group

ADR/RID, ADN, IMDG, IATA-DGR:

not applicable

14.5 Environmental hazards

Dangerous for the environment:

Substance/mixture is not environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant - IMDG:

no

14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations - Germany

Storage class: 10 = Combustible liquids that cannot be assigned to any of the above storage classes

Water Hazard Class: 1 = slightly hazardous to water

Technical guidance air: 5.2.5

Further regulations, limitations and legal requirements:

The product is subject to the restrictions on use according to TRGS 611.

National regulations - EC member states

Labelling of packaging with <= 125mL content

Hazard statements: EUH208 Contains 2-n-Butyl-benzo[d]isothiazol-3-one. May produce an allergic reaction.
EUH210 Safety data sheet available on request.

Precautionary statements: not applicable

Further regulations, limitations and legal requirements:

Use restriction according to REACH annex XVII, no.: 75

International Conventions

2,2'-(Methylimino)diethanol: Chemical Weapons Convention (CWC): Schedule 3B (Precursors)

Triethanolamine: Chemical Weapons Convention (CWC): Schedule 3B (Precursors)



Eni aquamet LMX – 1026

Material number 916

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 29.7.2026
Version: 1.0
Replaces version: 0.0
Language: en-DE
Date of print: 30.7.2026

Page: 11 of 12

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Wording of the H-phrases under paragraph 2 and 3:

H314 = Causes severe skin burns and eye damage.
H317 = May cause an allergic skin reaction.
H318 = Causes serious eye damage.
H319 = Causes serious eye irritation.
H400 = Very toxic to aquatic life.
H410 = Very toxic to aquatic life with long lasting effects.
EUH208 = Contains 2-n-Butyl-benzo[d]isothiazol-3-one. May produce an allergic reaction.
EUH210 = Safety data sheet available on request.

Date of first version: 29.7.2026

Department issuing data sheet:

see section 1: Department responsible for information

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
Aquatic Acute: Hazardous to the aquatic environment - acute
Aquatic Chronic: Hazardous to the aquatic environment - chronic
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
EC50: Effective Concentration 50%
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
EN: European Standard
EQ: Excepted quantities
EU: European Union
Eye Dam.: Eye damage
Eye Irrit.: Eye irritation
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
IMO: International Maritime Organization
LC50: Median lethal concentration
LD50: Lethal dose 50%
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
M-factor: Multiplication factor
OECD: Organisation for Economic Co-operation and Development
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
Skin Corr.: Skin corrosion
Skin Sens.: Skin sensitisation
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
UV: Ultraviolet
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit



Eni aquamet LMX – 1026

Material number 916

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU)
2020/878

Revision date: 29.7.2026
Version: 1.0
Replaces version: 0.0
Language: en-DE
Date of print: 30.7.2026

Page: 12 of 12

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:
<https://sumdat.net/4wqwp61x>

