

Safety Data Sheet

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

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

1.1 Product identifier

Trade name: Eni aquamet LMX - 1024

UFI: P8F0-60DG-H001-N8VM

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
Reserved for industrial and professional use.

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

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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)

Eye Dam. 1; H318 Causes serious eye damage.

Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (CLP)



Signal word: **Danger**

Hazard statements: H318

Causes serious eye damage.

H412

Harmful to aquatic life with long lasting effects.



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Precautionary statements:

- P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.

Special labelling

EUH208 Contains 2-n-Butyl-benzo[d]isothiazol-3-one. May produce an allergic reaction.

Text for labelling:

Contains: Carbamic acid, (2-hydroxypropyl)-, compd. with 1-amino-2-propanol (1:1).

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: A mixture of base oils and additives

Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119489407-26-xxxx EC No. 500-236-9 CAS 68920-66-1	Alcohols, C16-18 and C18-unsatd., ethoxylated Skin Irrit. 2; H315. Aquatic Chronic 2; H411.	2,5 - 5 %
list no. 605-539-0 CAS 169115-74-6	Carbamic acid, (2-hydroxypropyl)-, compd. with 1-amino-2-propanol (1:1) Eye Dam. 1; H318.	1 - 5 %
REACH 01-2119486566-23-xxxx EC No. 212-222-7 CAS 770-35-4	1-Phenoxypropan-2-ol Eye Irrit. 2; H319.	1 - 5 %
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.	< 0,25 %

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



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Additional information: Contains Triethanolamine. The maximum workplace exposure limits are, where necessary, listed in section 8.
The highly refined mineral oil contains <3% (w/w) DMSO extract, according to IP346.

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. Take off contaminated clothing and wash it before reuse.

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. 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. Subsequently seek the immediate attention of 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. Immediately get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye damage.
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, 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, phosphorus oxides, 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.



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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. Avoid oil mist formation. If possible, eliminate leakage. Provide adequate ventilation.
Wear appropriate protective equipment. Keep unprotected people away.
Take off contaminated clothing and wash it before reuse. Remove all sources of ignition.

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.

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. Avoid oil mist formation. 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. Do not put any product-impregnated cleaning rags into your trouser pockets. Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:

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



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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 frost, heat and sunlight. 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.
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
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 Alcohols, C16-18 and C18-unsatd., ethoxylated (CAS 68920-66-1):

DNEL, workers, inhalative, systemic, long-term: 22,2 mg/m³
DNEL, workers, dermal, systemic, long-term: 210 mg/kg bw/d
DNEL, consumers, inhalative, systemic, long-term: 3,92 mg/m³
DNEL, consumers, dermal, systemic, long-term: 75 mg/kg bw/d
DNEL, consumers, oral, systemic, long-term: 1,5 mg/kg bw/d

Information about 1-Phenoxypropan-2-ol (CAS 770-35-4):

DNEL, workers, dermal, systemic, long-term: 42 mg/kg bw/d
DNEL, workers, dermal, local, long-term: 2,6 mg/cm²
DNEL, consumers, dermal, systemic, long-term: 21 mg/kg bw/d
DNEL, consumers, dermal, local, long-term: 1,3 mg/cm²
DNEL, consumers, oral, systemic, long-term: 3,65 mg/kg bw/d

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



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PNEC: Information about Alcohols, C16-18 and C18-unsatd., ethoxylated (CAS 68920-66-1):
PNEC, water (freshwater): 0,007 mg/L
PNEC, water (freshwater, intermittent release): 0,1 mg/L
PNEC, water (marine water): 0,001 mg/L
PNEC, sewage treatment plant: 2 mg/L
PNEC, sediment (freshwater): 22,79 mg/kg dw
PNEC, sediment (marine water): 2,28 mg/kg dw
PNEC, soil: 1 mg/kg dw

Information about 1-Phenoxypropan-2-ol (CAS 770-35-4):
PNEC, water (freshwater): 0,1 mg/L
PNEC, water (freshwater, intermittent release): 1 mg/L
PNEC, water (marine water): 0,01 mg/L
PNEC, sewage treatment plant: 10 mg/L
PNEC, sediment (freshwater): 0,38 mg/kg dw
PNEC, sediment (marine water): 0,038 mg/kg dw
PNEC, soil: 0,02 mg/kg dw

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

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.

Hand protection: Protective gloves according to DIN EN ISO 374-1.
Glove material: Nitrile rubber, polychloroprene, chloroprene rubber

During full contact:
Layer thickness: 0,7 mm
Breakthrough time: > 480 min

During splash contact:
Layer thickness: 0,4 mm
Breakthrough time: > 30 min

Unsuitable glove material: PVA (Polyvinyl alcohol)

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.



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General protection and hygiene measures:

Do not breathe mist/vapours/spray. Avoid oil mist formation. 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. Do not put any product-impregnated cleaning rags into your trouser pockets. Have eye wash bottle or eye rinse ready at work place.

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:	light yellow
Odour:	characteristic
Melting point/freezing point:	No data available
Boiling point or initial boiling point and boiling range:	> 100 °C (1.013 hPa)
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%: 9,4 (DIN 51369)
Kinematic viscosity:	at 20 °C: approx. 150 mm ² /s (DIN EN ISO 3104)
Water solubility:	at 20 °C: Miscible
Partition coefficient n-octanol/water (log value):	Not applicable
Vapour pressure:	No data available
Density:	at 15 °C: 0,99 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
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.



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10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Protect from frost, heat and sunlight.

10.5 Incompatible materials

Oxidizing agents.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

Thermal decomposition: Not determined

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.
ATEmix (calculated): > 2.000 mg/kg

Acute toxicity (dermal): Based on available data, the classification criteria are not met.
ATEmix (calculated): > 2.000 mg/kg

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
ATEmix (calculated, dusts/mist): > 5 mg/L/4h

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

Serious eye damage/irritation: Eye Dam. 1; H318 = Causes serious eye damage.

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.



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11.2 Information on other hazards

Endocrine disrupting properties:

None

Other information:

Information about Alcohols, C16-18 and C18-unsatd., ethoxylated (CAS 68920-66-1):

LD50 Rat, oral: > 2.000 mg/kg (OECD 401)

LD50 Rabbit, dermal: > 2.000 mg/kg (OECD 402)

LC50 Rat, inhalative (vapour): > 100 mg/m³/6h (OECD 403, saturated vapour concentration (SVC))

Information about 1-Phenoxypropan-2-ol (CAS 770-35-4):

LD50 Rat, oral: > 2.000 mg/kg (OECD 401)

LD50 Rat, dermal: > 2.000 mg/kg (OECD 402)

LC50 Rat, inhalative (dusts/mist): > 5,4 mg/L/4h (OECD 403)

Symptoms

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness. Prolonged eye contact may damage the cornea.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

Information about Alcohols, C16-18 and C18-unsatd., ethoxylated (CAS 68920-66-1):

Fish toxicity:

LC50 Danio rerio (zebrafish): 108 mg/L/96h (OECD 203)

Daphnia toxicity:

EL50 Daphnia magna (Big water flea): 51 mg/L/48h (OECD 202)

Algae toxicity:

EL50 Pseudokirchneriella subcapitata (green algae): > 11,3 mg/L/72h (OECD 201)

Information about 1-Phenoxypropan-2-ol (CAS 770-35-4):

Fish toxicity:

LC50 Pimephales promelas (fathead minnow): 280 mg/L/96h (OECD 203)

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): > 120 mg/L/48h (OECD 202)

Algae toxicity:

EL50 Desmodesmus subspicatus (green algae): > 100 mg/L/72h (EU Method C.3)

Water Hazard Class:

2 = obviously hazardous to water (Self-classification (mixture).)

12.2 Persistence and degradability

Further details:

Abiotic degradation:

Poorly eliminated from water.

Biodegradation:

Part of the components is biodegradable.

12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient: n-octanol/water:

Not applicable



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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: Before intended use:
12 01 07* = Mineral-based machining oils free of halogens (except emulsions and solutions)
* = Evidence for disposal must be provided.

After intended use:
12 01 09* = Machining emulsions and solutions free of halogens
* = Evidence for disposal must be provided.

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.
Non-contaminated packages may be recycled.

Section 14. Transport information

14.1 UN number or ID number

ADR/RID, IMDG, IATA-DGR: not applicable
ADN: ID 9006

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR: Not restricted
ADN: ID 9006, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.



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14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:

not applicable

ADN:

Class 9, Code: M12

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

Inland waterway craft (ADN)

Hazard label:

-

Transport permitted:

T

Equipment necessary:

PP

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: 2 = obviously hazardous to water (Self-classification (mixture).)

Technical guidance air: 5.2.5

Information on working limitations:

Observe employment restrictions for young people.

Further regulations, limitations and legal requirements:

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

National regulations - EC member states

Volatile organic compounds (VOC):

0 % by weight

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Labelling of packaging with <= 125mL content



Signal word:

Danger

Hazard statements:

H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.
EUH208 Contains 2-n-Butyl-benzo[d]isothiazol-3-one. May produce an allergic reaction.

Precautionary statements:

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.

Further regulations, limitations and legal requirements:

Use restriction according to REACH annex XVII, no.: 3, 75

International Conventions

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

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Classification procedure: Physical hazards: on basis of test data
Health hazards, environmental hazards: calculation method

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

H314 = Causes severe skin burns and eye damage.
H315 = Causes skin irritation.
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.
H411 = Toxic to aquatic life with long lasting effects.
H412 = Harmful to aquatic life with long lasting effects.
EUH208 = Contains 2-n-Butyl-benzo[d]isothiazol-3-one. May produce an allergic reaction.

Reason of change:

Changes in section 1: Product identifier (UFI)
Changes in section 2: Classification, labelling
Changes in section 3: Composition / Information on ingredients
Changes in section 15: Regulatory information
General revision

Date of first version:

13.11.2024

Department issuing data sheet:

see section 1: Department responsible for information



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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
ATEmix: Acute Toxicity Estimate of mixture
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%
EL50: Effective loading rate 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 Irrit.: Skin irritation
Skin Sens.: Skin sensitisation
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
UFI: Unique Formula Identifier
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit

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/hwz9vtsp>

