



# SAFETY DATA SHEET

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

## Eni aquamet LCZ

Material number 851

Revision date: 13.12.2022

Version: 1.0

Replaces version: 0.0

Language: en-DE

Date of print: 19.12.2022

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

### 1.1 Product identifier

Trade name: Eni aquamet LCZ

UFI: UW70-R0A3-U00E-P0RU

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

General use: Metalworking fluid

### 1.3 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

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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

### 1.4 Emergency telephone number

GLZ-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)

Skin Irrit. 2; H315 Causes skin irritation.

Eye Dam. 1; H318 Causes serious eye damage.

Skin Sens. 1; H317 May cause an allergic skin reaction.

Muta. 2; H341 Suspected of causing genetic defects.

Carc. 1B; H350 May cause cancer.

### 2.2 Label elements

#### Labelling (CLP)



Signal word:

**Danger**

Hazard statements:

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H318

Causes serious eye damage.

H341

Suspected of causing genetic defects.

H350

May cause cancer.



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Precautionary statements:	P101	If medical advice is needed, have product container or label at hand.
	P102	Keep out of reach of children.
	P201	Obtain special instructions before use.
	P261	Avoid breathing mist/vapours/spray.
	P280	Wear protective gloves/protective clothing/eye 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.
	P405	Store locked up.

### Special labelling

Text for labelling: Contains:  
Reaction products of paraformaldehyde and 2-hydroxypropylamine (1:1 ratio),  
2-Aminoethanol  
Restricted to professional users.

### 2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

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

## SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

### 3.2 Mixtures

Chemical characterisation: A mixture of base oils and additives



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Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119475104-44-xxxx EC No. 203-961-6 CAS 112-34-5	2-(2-Butoxyethoxy)ethanol Eye Irrit. 2; H319.	< 5 %
REACH 01-2119486455-28-xxxx EC No. 205-483-3 CAS 141-43-5	2-Aminoethanol Acute Tox. 4; H302. Acute Tox. 4; H312. Acute Tox. 4; H332. Skin Corr. 1B; H314. STOT SE 3; H335. Aquatic Chronic 3; H412. Specific concentration limits (SCL): STOT SE 3; H335: C ≥ 5 %	< 3 %
EC No. - CAS -	Reaction products of paraformaldehyde and 2-hydroxypropylamine (1:1 ratio) Acute Tox. 4; H302. Acute Tox. 4; H332. Skin Corr. 1B; H314. Eye Dam. 1; H318. Skin Sens. 1; H317. Muta. 2; H341. Carc. 1B; H350. STOT RE 2; H373. Aquatic Chronic 2; H411.	< 2,5 %
EC No. 223-296-5 CAS 3811-73-2	Pyridine-2-thiol 1-oxide, sodium salt Acute Tox. 4; H302. Acute Tox. 4; H312. Acute Tox. 4; H332. Skin Irrit. 2; H315. Eye Irrit. 2; H319. Aquatic Acute 1; H400. Aquatic Chronic 1; H410. M-factors: Aquatic Acute 1: M = 100. Aquatic Chronic 1: M = 10.	< 0,25 %
EC No. 259-627-5 CAS 55406-53-6	3-Iodo-2-propynyl butylcarbamate Acute Tox. 4; H302. Acute Tox. 3; H331. Eye Dam. 1; H318. Skin Sens. 1; H317. STOT RE 1; H372. Aquatic Acute 1; H400. Aquatic Chronic 1; H410. M-factors: Aquatic Acute 1: M = 10. Aquatic Chronic 1: M = 1.	< 0,1 %

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

Additional information: 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. First aider: Pay attention to self-protection! Take off contaminated clothing and wash it before reuse. Remove victim out of the danger area.
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. 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. Seek medical attention.

### 4.2 Most important symptoms and effects, both acute and delayed

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage.



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### 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 mist, extinguishing powder, foam, sand and 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: Nitrogen oxides (NO<sub>x</sub>), smoke, traces of incompletely burned carbon compounds, carbon monoxide and carbon dioxide.

### 5.3 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.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

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

In case of leakage, eliminate all ignition sources. If possible, eliminate leakage. Provide adequate ventilation.

Keep unprotected people away. Wear appropriate protective equipment. 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. Do not allow to enter into soil/subsoil.

If necessary notify appropriate authorities.

### 6.3 Methods and material for containment and cleaning up

Clear spills immediately.

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

Prevent spread over a wide area (e.g. by containment or oil barriers). Make sure spills can be contained, e.g. in sump pallets or kerbed areas. cover drains. Never return spills in original containers for re-use.

Clean contaminated articles and floor according to the environmental legislation.

Additional information:

Special danger of slipping by leaking/spilling product.

### 6.4 Reference to other sections

Refer additionally to section 8 and 13.



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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advices on safe handling:

Obtain special instructions before use. 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. Wash hands before breaks and after work.

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

Precautions against fire and explosion:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

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

Protect from frost, heat and sunlight.

Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

Recommended storage temperature: 5 - 40 °C.

storage stability: 12 months.

Hints on joint storage:

Do not store together with strong oxidizing agents.

Keep away from food, drink and animal feedingstuffs.

Storage class:

6.1C = Combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects

### 7.3 Specific end use(s)

No information available.



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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
112-34-5	2-(2-Butoxyethoxy) ethanol	Europe: IOELV: STEL	101,2 mg/m <sup>3</sup> ; 15 ppm
		Europe: IOELV: TWA	67,5 mg/m <sup>3</sup> ; 10 ppm
		Germany: TRGS 900 Kurzzeit	100,5 mg/m <sup>3</sup> ; 15 ppm (Aerosol and vapour)
		Germany: TRGS 900 Langzeit	67 mg/m <sup>3</sup> ; 10 ppm (Aerosol and vapour)
141-43-5	2-Aminoethanol	Europe: IOELV: STEL	7,6 mg/m <sup>3</sup> ; 3 ppm (may be absorbed through the skin)
		Europe: IOELV: TWA	2,5 mg/m <sup>3</sup> ; 1 ppm (may be absorbed through the skin)
		Germany: TRGS 900 Kurzzeit	0,5 mg/m <sup>3</sup> ; 0,2 ppm (Aerosol and vapour, may be absorbed through the skin)
		Germany: TRGS 900 Langzeit	0,5 mg/m <sup>3</sup> ; 0,2 ppm (Aerosol and vapour, may be absorbed through the skin)
3811-73-2	Pyridine-2-thiol 1-oxide, sodium salt	Germany: TRGS 900 Kurzzeit	0,4 mg/m <sup>3</sup> (inhalable fraction; may be absorbed through the skin)
		Germany: TRGS 900 Langzeit	0,2 mg/m <sup>3</sup> (inhalable fraction; may be absorbed through the skin)
55406-53-6	3-Iodo-2-propynyl butylcarbamate	Germany: TRGS 900 Kurzzeit	0,106 mg/m <sup>3</sup> ; 0,01 ppm (Aerosol and vapour)
		Germany: TRGS 900 Langzeit	0,058 mg/m <sup>3</sup> ; 0,005 ppm (Aerosol and vapour)

DNEL/DMEL: Information about 2-(2-Butoxyethoxy)ethanol: DNEL workers, long-term, local, inhalative: 67,5 mg/m<sup>3</sup>  
DNEL workers, short-term, local, inhalative: 101,2 mg/m<sup>3</sup>  
DNEL consumers, long-term, systemic, oral: 6,25 mg/kg bw/d  
Information about 2-Aminoethanol: DNEL workers, long-term, systemic, inhalative: 1 mg/m<sup>3</sup>  
DNEL workers, short-term, local, inhalative: 0,51 mg/m<sup>3</sup>  
DNEL workers, long-term, systemic, dermal: 3 mg/kg bw/d  
DNEL consumers, long-term, systemic, inhalative: 0,18 mg/m<sup>3</sup>  
DNEL consumers, short-term, local, inhalative: 0,28 mg/m<sup>3</sup>  
DNEL consumers, long-term, systemic, dermal: 1,5 mg/kg bw/d  
DNEL consumers, long-term, systemic, oral: 1,5 mg/kg bw/d

PNEC: Information about 2-(2-Butoxyethoxy)ethanol:  
PNEC water (freshwater): 1,1 mg/L  
PNEC water (marine water): 0,11 mg/L  
PNEC sediment (freshwater): 4,4 mg/kg dw  
PNEC sediment (marine water): 0,44 mg/kg dw  
PNEC soil: 0,32 mg/kg dw  
PNEC oral (Food): 56 mg/kg dw  
Information about 2-Aminoethanol:  
PNEC water (freshwater): 0,07 mg/L  
PNEC water (marine water): 0,007 mg/L  
PNEC sewage treatment plant: 100 mg/L  
PNEC sediment (freshwater): 0,357 mg/kg dw  
PNEC sediment (marine water): 0,036 mg/kg dw  
PNEC soil: 1,29 mg/kg dw



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### 8.2 Exposure controls

Use only in well-ventilated areas. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Technical measures and the application of suitable work processes have priority over personal protection equipment.

### Personal protection equipment

#### Occupational exposure controls

**Respiratory protection:** Respiratory protection must be worn whenever the WEL levels have been exceeded. In case of inadequate ventilation wear respiratory protection.

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 EN 374.

During full contact:

Glove material: nitrile rubber, polychloroprene, chloroprene rubber

Breakthrough time: > 480 min

Layer thickness:  $\geq 0,7$  mm

During splash contact:

Glove material: nitrile rubber, polychloroprene, chloroprene rubber

Breakthrough time: > 30 min

Layer thickness:  $\geq 0,4$  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:**

Obtain special instructions before use. 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 "6.2 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:	orange
Odour:	Characteristic
Odour threshold:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	> 100 °C (1013 hPa)
Flammability:	No data available
Upper/lower flammability or explosive limits:	LEL (Lower Explosion Limit): 0,60 Vol-% UEL (Upper Explosive Limit): 6,50 Vol-%
Flash point/flash point range:	> 100 °C (DIN EN ISO 2592)
Decomposition temperature:	No data available
pH:	at 20 °C, 5%: 9,4 (DIN 51369)
Viscosity, kinematic:	at 20 °C: approx. 150 mm <sup>2</sup> /s (DIN EN ISO 3104)
Water solubility:	at 20 °C: Miscible
Partition coefficient: n-octanol/water:	Not applicable



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Vapour pressure: No data available  
Density: at 15 °C: 0,995 g/mL (DIN EN ISO 12185)  
Vapour density: No data available  
Particle characteristics: Not applicable

### 9.2 Other information

Explosive properties: No data available  
Oxidizing characteristics: Product is not explosive.  
Auto-ignition temperature: > 240 °C  
Evaporation rate: No data available  
Additional information: Product has no oxidizing effect.

## 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

No hazardous reaction when handled and stored according to provisions.

### 10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames.  
Protect from direct sunlight. Protect from frost.

### 10.5 Incompatible materials

Strong oxidizing agents.

### 10.6 Hazardous decomposition products

Formaldehyde  
Thermal decomposition: No data available





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## 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): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.

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

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Skin Sens. 1; H317 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Muta. 2; H341 = Suspected of causing genetic defects.

Carcinogenicity: Carc. 1B; H350 = May cause cancer.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

### 11.2 Information on other hazards

Endocrine disrupting properties: No data available

### 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

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

### 12.2 Persistence and degradability

Further details: Product is partially biodegradable.

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

Not applicable

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Endocrine disrupting properties

No data available

### 12.7 Other adverse effects

General information:

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



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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Product

Waste key number: 12 01 07\* = Mineral-based machining oils free of halogens (except emulsions and solutions)  
\* = Evidence for disposal must be provided.

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.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

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

#### 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: 6.1C = Combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects

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

Technical guidance air: 5.2.5.



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### Information on working limitations:

Observe employment restrictions for young people.

Observe employment restrictions for expectant or nursing mothers.

### Further regulations, limitations and legal requirements:

The product is controlled by the German Chemicals Prohibition Ordinance (ChemVerbotsV).

### National regulations - EC member states

#### Volatile organic compounds (VOC):

1,34 % by weight

#### Further regulations, limitations and legal requirements:

Use restriction according to REACH annex XVII, no.: 3, 28, 29, 55, 75

### 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:

H315 = Causes skin irritation.

H317 = May cause an allergic skin reaction.

H318 = Causes serious eye damage.

H341 = Suspected of causing genetic defects.

H350 = May cause cancer.

H319 = Causes serious eye irritation.

H302 = Harmful if swallowed.

H312 = Harmful in contact with skin.

H314 = Causes severe skin burns and eye damage.

H332 = Harmful if inhaled.

H335 = May cause respiratory irritation.

H412 = Harmful to aquatic life with long lasting effects.

H373 = May cause damage to organs through prolonged or repeated exposure.

H411 = Toxic to aquatic life with long lasting effects.

H400 = Very toxic to aquatic life.

H410 = Very toxic to aquatic life with long lasting effects.

H331 = Toxic if inhaled.

H372 = Causes damage to organs through prolonged or repeated exposure.

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Department issuing data sheet: see section 1: Department responsible for information



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Abbreviations and acronyms:

- Acute Tox.: Acute toxicity
- 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
- Carc.: Carcinogenicity
- 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
- 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
- LEL: Lower Explosion Limit
- MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
- M-factor: Multiplication factor
- Muta.: Mutagenicity
- 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
- STOT RE: Specific target organ toxicity - repeated exposure
- STOT SE: Specific target organ toxicity - single exposure
- TLV: Threshold Limit Value
- TRGS: Technical Rules for Hazardous Substances
- 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:  
<http://sumdat.net/73cqnuv>

