



SAFETY DATA SHEET

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

Eni aquamet LMK - CO2 REDUCTION

Material number 926

Revision date: 10.5.2023

Version: 1.0

Replaces version: 0.0

Language: en-DE

Date of print: 23.5.2023

Page: 1 of 11

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

1.1 Product identifier

Trade name: Eni aquamet LMK - CO2 REDUCTION

UFI: 8P80-90HP-K00V-N30E

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: 97080 Würzburg

Germany

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

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)

Skin Irrit. 2; H315 Causes skin irritation.

Eye Irrit. 2; H319 Causes serious eye irritation.

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

2.2 Label elements

Labelling (CLP)



Signal word:

Warning

Hazard statements:

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H412

Harmful to aquatic life with long lasting effects.



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Version: 1.0

Replaces version: 0.0

Language: en-DE

Date of print: 23.5.2023

Page: 2 of 11

| | | |
|---------------------------|----------------|--|
| Precautionary statements: | P101 | If medical advice is needed, have product container or label at hand. |
| | P102 | Keep out of reach of children. |
| | P264 | Wash hands and face thoroughly after handling. |
| | P273 | Avoid release to the environment. |
| | 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. |
| | P337+P313 | If eye irritation persists: Get medical advice/attention. |
| | P501 | Dispose of contents/container to hazardous or special waste collection point. |

Special labelling

EUH208 Contains 3-Iodo-2-propynyl butylcarbamate. May produce an allergic reaction.

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 a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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.

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 % |
| list no. 612-519-5 CAS 61827-42-7 | Isodecyl alcohol, ethoxylated Acute Tox. 4; H302. Eye Dam. 1; H318. | < 5 % |
| REACH 01-2119475331-43-xxxx EC No. 201-162-7 CAS 78-96-6 | Isopropanolamine Acute Tox. 4; H312. Skin Corr. 1B; H314. Eye Dam. 1; H318. | < 3 % |
| EC No. 202-980-7 CAS 101-83-7 | Dicyclohexylamine Acute Tox. 3; H301. Acute Tox. 3; H311. Skin Corr. 1B; H314. Eye Dam. 1; H318. Aquatic Acute 1; H400. Aquatic Chronic 1; H410. | < 2 % |
| 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. | < 0,25 % |

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

Additional information: Contains: mineral oil and 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.



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Material number 926

Revision date: 10.5.2023

Version: 1.0

Replaces version: 0.0

Language: en-DE

Date of print: 23.5.2023

Page: 3 of 11

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 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. |

4.2 Most important symptoms and effects, both acute and delayed

Causes skin irritation. Causes serious eye irritation. May cause allergic reactions in already sensitized persons.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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: Nitrogen oxides (NO_x), phosphorus oxides, 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:

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.



SAFETY DATA SHEET

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Material number 926

Revision date: 10.5.2023

Version: 1.0

Replaces version: 0.0

Language: en-DE

Date of print: 23.5.2023

Page: 4 of 11

6.3 Methods and material for containment and cleaning up

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

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).

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 eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. 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.

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 against heat, sun rays and frost.
Store containers in upright position.
storage temperature: 5 - 40 °C (Shelf life: 12 months)

Hints on joint storage:

Do not store with strong oxidizing agents.
Keep away from food, drink and animal feedingstuffs.

Storage class:

10 = Combustible liquids, unless storage class 3

7.3 Specific end use(s)

No information available.



SAFETY DATA SHEET

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Eni aquamet LMK - CO2 REDUCTION

Material number 926

Revision date: 10.5.2023

Version: 1.0

Replaces version: 0.0

Language: en-DE

Date of print: 23.5.2023

Page: 5 of 11

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 ³ ; 15 ppm |
| | | Europe: IOELV: TWA | 67,5 mg/m ³ ; 10 ppm |
| | | Germany: TRGS 900 Kurzzeit | 100,5 mg/m ³ ; 15 ppm (Aerosol and vapour) |
| | | Germany: TRGS 900 Langzeit | 67 mg/m ³ ; 10 ppm (Aerosol and vapour) |
| 78-96-6 | Isopropanolamine | Germany: TRGS 900 Kurzzeit | 11,6 mg/m ³ ; 4 ppm (Aerosol and vapour) |
| | | Germany: TRGS 900 Langzeit | 5,8 mg/m ³ ; 2 ppm (Aerosol and vapour) |
| 101-83-7 | Dicyclohexylamine | Germany: TRGS 900 Kurzzeit | 10 mg/m ³ ; 1,4 ppm (Aerosol and vapour, may be absorbed through the skin) |
| | | Germany: TRGS 900 Langzeit | 5 mg/m ³ ; 0,7 ppm (Aerosol and vapour, may be absorbed through the skin) |
| 55406-53-6 | 3-Iodo-2-propynyl butylcarbamate | Germany: TRGS 900 Kurzzeit | 0,106 mg/m ³ ; 0,01 ppm (Aerosol and vapour) |
| | | Germany: TRGS 900 Langzeit | 0,058 mg/m ³ ; 0,005 ppm (Aerosol and vapour) |
| 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 2-(2-Butoxyethoxy)ethanol:

DNEL workers, long-term, inhalative, local: 67,5 mg/m³

DNEL workers, short-term, inhalative, local: 101,2 mg/m³

DNEL consumers, long-term, oral, systemic: 6,25 mg/kg bw/d

Information about Isopropanolamine:

DNEL workers, long-term, inhalative, systemic: 3,6 mg/m³

DNEL consumers, long-term, inhalative, systemic: 0,88 mg/m³

DNEL consumers, long-term, dermal, systemic: 0,51 mg/kg bw/d

DNEL consumers, long-term, oral, systemic: 0,28 mg/kg bw/d

Information about Dicyclohexylamine:

DNEL workers, long-term, dermal, systemic: 0,1 mg/kg bw/d

DNEL workers, long-term, inhalative, systemic: 0,353 mg/m³



SAFETY DATA SHEET

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

Eni aquamet LMK - CO2 REDUCTION

Material number 926

Revision date: 10.5.2023

Version: 1.0

Replaces version: 0.0

Language: en-DE

Date of print: 23.5.2023

Page: 6 of 11

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
PNEC sediment (marine water): 0,44 mg/kg
PNEC soil: 0,32 mg/kg
PNEC oral: 56 mg/kg

Information about Isopropanolamine:
PNEC water (freshwater): 0,032 mg/L
PNEC water (marine water): 0,003 mg/L
PNEC sediment (freshwater): 0,226 mg/kg
PNEC sediment (marine water): 0,023 mg/kg
PNEC sewage treatment plant: 3,3 mg/L
PNEC soil: 0,026 mg/kg

Information about Dicyclohexylamine:
PNEC water (freshwater): 0,002 mg/L
PNEC water (marine water): 0 mg/L
PNEC sediment (freshwater): 0,075 mg/kg
PNEC sediment (marine water): 0,007 mg/kg
PNEC sewage treatment plant: 21 mg/L
PNEC soil: 0,014 mg/kg

8.2 Exposure controls

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

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.

Hand protection: Protective gloves according to EN 374.
During full contact:
Glove material: Nitrile rubber, chloroprene rubber, polychloroprene.
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 BS EN ISO 16321-1:2022.

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 "6.2 Environmental precautions".



SAFETY DATA SHEET

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

Eni aquamet LMK - CO₂ REDUCTION

Material number 926

Revision date: 10.5.2023

Version: 1.0

Replaces version: 0.0

Language: en-DE

Date of print: 23.5.2023

Page: 7 of 11

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 |
| Odour threshold: | No data available |
| Melting point/freezing point: | Not determined |
| Initial boiling point and boiling range: | > 100 °C |
| Flammability: | No data available |
| Upper/lower flammability or explosive limits: | No data available |
| Flash point/flash point range: | > 100 °C (DIN EN ISO 2592) |
| Decomposition temperature: | No data available |
| pH: | at 20 °C, 5%: 9,8 (DIN 51369) |
| Viscosity, kinematic: | at 20 °C: approx. 165 mm ² /s (DIN EN ISO 3104) |
| Water solubility: | at 20 °C: Miscible |
| Partition coefficient: n-octanol/water: | Not applicable |
| Vapour pressure: | No data available |
| Density: | at 15 °C: 0,931 g/mL (DIN EN ISO 12185) |
| Vapour density: | No data available |
| Particle characteristics: | Not applicable |

9.2 Other information

| | |
|----------------------------|---------------------------|
| Explosive properties: | Product is not explosive. |
| Oxidizing characteristics: | Not oxidising. |
| Auto-ignition temperature: | No data available |
| Evaporation rate: | No data available |
| Additional information: | 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

No dangerous reactions are known.

10.4 Conditions to avoid

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

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

| | |
|------------------------|--------------------------------------|
| | No decomposition when used properly. |
| Thermal decomposition: | No data available |



SAFETY DATA SHEET

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Eni aquamet LMK - CO2 REDUCTION

Material number 926

Revision date: 10.5.2023

Version: 1.0

Replaces version: 0.0

Language: en-DE

Date of print: 23.5.2023

Page: 8 of 11

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): ATE > 2.000 mg/kg

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

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

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

Serious eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Based on available data, the classification criteria are not met. Contains 3-Iodo-2-propynyl butylcarbamate. May produce an allergic reaction.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

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

11.2 Information on other hazards

Endocrine disrupting properties: No data available

Other information: Information about 2-(2-Butoxyethoxy)ethanol:
LD50, Mouse, oral: 2.410 mg/kg (OECD 401)
LD50, Rabbit, dermal: 25.764 mg/kg (OECD 402)

Information about Isopropanolamine:
LD50, Rat, oral: 2.813 mg/kg
LC50, Rat, inhalative: > 3.460 mg/m³/6h (Aerosol)
LD50, Rabbit, dermal: 1.851 mg/kg

Information about Dicyclohexylamine:
LD50, Rat, oral: 200 mg/kg
LC50, Rat, inhalative: > 1,4 mg/L
LD50, Rabbit, dermal: 200 mg/kg

Symptoms

Processing vapours can irritate the respiratory tracts, skin and eyes.
After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.

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

12.2 Persistence and degradability

Further details: Part of the components is biodegradable.
Poorly eliminated from water.



SAFETY DATA SHEET

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

Eni aquamet LMK - CO2 REDUCTION

Material number 926

Revision date: 10.5.2023

Version: 1.0

Replaces version: 0.0

Language: en-DE

Date of print: 23.5.2023

Page: 9 of 11

12.3 Bioaccumulative potential

No indication of bioaccumulation 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.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Recommendation:

ASN 120107*: Mineral-based machining oils free of halogens (except emulsions and solutions)

ASN 120109*: 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.

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.

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



SAFETY DATA SHEET

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

Eni aquamet LMK - CO2 REDUCTION

Material number 926

Revision date: 10.5.2023

Version: 1.0

Replaces version: 0.0

Language: en-DE

Date of print: 23.5.2023

Page: 10 of 11

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, unless storage class 3

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 not subject to the Chemicals Prohibition Ordinance (ChemVerbotsV).

National regulations - EC member states

Volatile organic compounds (VOC):

2,16 % by weight

Labelling of packaging with <= 125mL content



Signal word:

Warning

Hazard statements:

H412

Harmful to aquatic life with long lasting effects.

EUH208

Contains 3-Iodo-2-propynyl butylcarbamate. May produce an allergic reaction.

Precautionary statements:

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

Further regulations, limitations and legal requirements:

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

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.



SAFETY DATA SHEET

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Eni aquamet LMK - CO2 REDUCTION

Material number 926

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Language: en-DE

Date of print: 23.5.2023

Page: 11 of 11

SECTION 16: Other information

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

H301 = Toxic if swallowed.
H302 = Harmful if swallowed.
H311 = Toxic in contact with skin.
H312 = Harmful in contact with skin.
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.
H331 = Toxic if inhaled.
H372 = Causes damage to organs through prolonged or repeated exposure.
H400 = Very toxic to aquatic life.
H410 = Very toxic to aquatic life with long lasting effects.
H412 = Harmful to aquatic life with long lasting effects.
EUH208 = Contains 3-Iodo-2-propynyl butylcarbamate. May produce an allergic reaction.

Date of first version: 10.5.2023

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

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
- ATE: Acute toxicity estimate
- 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
- 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
- STOT RE: Specific target organ toxicity - repeated 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/zxk0g51>

