



# SAFETY DATA SHEET

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

## Eni aquamet AHS - BAF

Material number 922

Revision date: 17.10.2023

Version: 4.4

Replaces version: 4.3

Language: en-DE

Date of print: 23.10.2023

Page: 1 of 11

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

### 1.1 Product identifier

Trade name: Eni aquamet AHS - BAF

UFI: YS50-3026-6001-5G67

### 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](http://www.enischmiertechnik.de)

E-mail: [info.wuerzburg@eni.com](mailto: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](mailto: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)

Eye Irrit. 2; H319 Causes serious eye irritation.

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

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

### 2.2 Label elements

#### Labelling (CLP)



Signal word:

**Warning**

Hazard statements:

H317

May cause an allergic skin reaction.

H319

Causes serious eye irritation.

H412

Harmful to aquatic life with long lasting effects.



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Version: 4.4

Replaces version: 4.3

Language: en-DE

Date of print: 23.10.2023

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.
	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.
	P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
	P337+P313	If eye irritation persists: Get medical advice/attention.
	P501	Dispose of contents/container to hazardous or special waste collection point.

### Special labelling

Text for labelling:

Contains:

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

2-n-Butyl-benzo[d]isothiazol-3-one

2-Methyl-2H-isothiazol-3-one

### 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 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.



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Version: 4.4

Replaces version: 4.3

Language: en-DE

Date of print: 23.10.2023

Page: 3 of 11

Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119486566-23-xxxx EC No. 212-222-7 CAS 770-35-4	1-Phenoxypropan-2-ol Eye Irrit. 2; H319.	5 - 10 %
EC No. 500-236-9 CAS 68920-66-1	Alcohols, C16-18 and C18-unsatd., ethoxylated Skin Irrit. 2; H315. Aquatic Acute 1; H400.	2,5 - 5 %
REACH 01-2119527859-22-xxxx EC No. 271-781-5 CAS 68608-26-4	Sulfonic acids, petroleum, sodium salts Eye Irrit. 2; H319.	1 - 5 %
REACH 01-2119475104-44-xxxx EC No. 203-961-6 CAS 112-34-5	2-(2-Butoxyethoxy)ethanol Eye Irrit. 2; H319.	1 - 5 %
REACH 01-2119488943-21-xxxx EC No. 204-589-7 CAS 122-99-6	2-Phenoxyethanol Acute Tox. 4; H302. Eye Dam. 1; H318. STOT SE 3; H335. Acute toxicity estimate (ATE): Oral: 1394 mg/kg bw.	1 - 3 %
EC No. 420-590-7 CAS 4299-07-4	2-n-Butyl-benzo[d]isothiazol-3-one Skin Corr. 1B; H314. Skin Sens. 1; H317. Aquatic Acute 1; H400. Aquatic Chronic 1; H410.	< 0,25 %
EC No. 220-120-9 CAS 2634-33-5	1,2-Benzisothiazol-3(2H)-one Acute Tox. 4; H302. Skin Irrit. 2; H315. Eye Dam. 1; H318. Skin Sens. 1; H317. Aquatic Acute 1; H400. Specific concentration limits (SCL): Skin Sens. 1; H317: C ≥ 0,05 %	0,05 - 0,25 %
EC No. 220-239-6 CAS 2682-20-4	2-Methyl-2H-isothiazol-3-one Acute Tox. 3; H301. Acute Tox. 3; H311. Acute Tox. 2; H330. Skin Corr. 1B; H314. Eye Dam. 1; H318. Skin Sens. 1A; H317. Aquatic Acute 1; H400. Aquatic Chronic 1; H410. (EUH071). Specific concentration limits (SCL): Skin Sens. 1A; H317: C ≥ 0,0015 % M-factors: Aquatic Acute 1: M = 10. Aquatic Chronic 1: M = 1.	0,0015 - 0,025 %

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.  
Take off contaminated clothing and wash it before reuse.

In case of inhalation: Remove casualty to fresh air and keep warm and at rest. If breathing becomes irregular or ceases, apply rescue breathing or artificial respiration immediately, where required supply oxygen.  
If unconscious place in recovery position and seek medical advice.



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Material number 922

Revision date: 17.10.2023

Version: 4.4

Replaces version: 4.3

Language: en-DE

Date of print: 23.10.2023

Page: 4 of 11

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 and seek medical attention immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting.

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

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

### 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, extinguishing powder, foam, water mist, 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. Do not inhale explosion and combustion gases.

Furthermore, there may develop: sulphur dioxide (SO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), 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:

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 breathing mist/vapours/spray. Avoid contact with the substance. Do not get in eyes, on skin, or on clothing. Provide adequate ventilation. Remove all sources of ignition.

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.



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Material number 922

Revision date: 17.10.2023

Version: 4.4

Replaces version: 4.3

Language: en-DE

Date of print: 23.10.2023

Page: 5 of 11

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

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

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

Never return spills in original containers for re-use.

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

### 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. Avoid breathing 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.

When handling larger quantities, take precautionary measures against electrostatic charging.

Keep away from sources of ignition - No smoking.

### 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 container dry. Keep only in the original container.

Protect from heat and direct sunlight. Protect from frost.

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:

10 = Combustible liquids, unless storage class 3

### 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
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)
122-99-6	2-Phenoxyethanol	Germany: TRGS 900 Kurzzeit	5,7 mg/m <sup>3</sup> ; 1 ppm (Aerosol and vapour)
		Germany: TRGS 900 Langzeit	5,7 mg/m <sup>3</sup> ; 1 ppm (Aerosol and vapour)



# SAFETY DATA SHEET

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

## Eni aquamet AHS - BAF

Material number 922

Revision date: 17.10.2023

Version: 4.4

Replaces version: 4.3

Language: en-DE

Date of print: 23.10.2023

Page: 6 of 11

### DNEL/DMEL:

Information about 1-Phenoxypropan-2-ol:

DNEL workers, dermal, long-term, systemic: 42 mg/kg bw/d

DNEL workers, inhalative, long-term, systemic: 25,7 mg/m<sup>3</sup>

Information about 2-Phenoxyethanol:

DNEL workers, dermal, long-term, systemic: 20,83 mg/kg bw/d

DNEL workers, inhalative, long-term, systemic: 5,7 mg/m<sup>3</sup>

Information about Alcohols, C16-18 and C18-unsatd., ethoxylated:

DNEL workers, dermal, long-term, systemic: 2080 mg/kg bw/d

DNEL workers, inhalative, long-term, systemic: 294 mg/m<sup>3</sup>

Information about 2-(2-Butoxyethoxy)ethanol:

DNEL workers, dermal, long-term, systemic: 20 mg/kg

DNEL workers, inhalative, long-term, systemic: 67,5 mg/m<sup>3</sup>

### PNEC:

Information about 1-Phenoxypropan-2-ol:

PNEC water (freshwater): 0,1 mg/L

PNEC water (marine water): 0,01 mg/L

PNEC sediment (freshwater): 0,38 mg/Kg dw

PNEC sediment (marine water): 0,038 mg/Kg dw

PNEC sewage treatment plant: 10 mg/L

Information about 2-Phenoxyethanol:

PNEC water (freshwater): 0,943 mg/L

PNEC water (marine water): 0,094 mg/L

PNEC sediment (freshwater): 7,237 mg/Kg dw

PNEC sewage treatment plant: 36 mg/L

Information about Alcohols, C16-18 and C18-unsatd., ethoxylated:

PNEC water (freshwater): 0,007 mg/L

PNEC water (marine water): 0,001 mg/L

PNEC sediment (freshwater): 22,79 mg/Kg dw

PNEC sewage treatment plant: 10 g/L

PNEC soil: 1 mg/Kg dw

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 sewage treatment plant: 200 mg/L

## 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 DIN EN 374.

During full contact:

Glove material: NBR nitrile rubber, CR (polychloroprene, chloroprene rubber).

Breakthrough time: > 480 min

Layer thickness: >= 0,7 mm

During splash contact:

Glove material: NBR nitrile rubber, CR (polychloroprene, chloroprene rubber).

Breakthrough time: > 30 min

Layer thickness: >= 0,4 mm

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.



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

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Material number 922

Revision date: 17.10.2023

Version: 4.4

Replaces version: 4.3

Language: en-DE

Date of print: 23.10.2023

Page: 7 of 11

Eye protection: Tightly sealed goggles according to DIN EN ISO 16321-1:2022.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:

Avoid breathing 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: brown

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): not determined  
UEL (Upper Explosive Limit): not determined

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

Decomposition temperature: Not determined

pH: at 20 °C, 5%: 9,4 (DIN 51369)

Viscosity, kinematic: at 20 °C: approx. 218 mm<sup>2</sup>/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: 0,976 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 hazardous reaction when handled and stored according to provisions.



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

## Eni aquamet AHS - BAF

Material number 922

Revision date: 17.10.2023

Version: 4.4

Replaces version: 4.3

Language: en-DE

Date of print: 23.10.2023

Page: 8 of 11

### 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

No hazardous decomposition products when regulations for storage and handling are observed.

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.

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

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Skin Sens. 1; H317 = May cause an allergic skin 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: No data available

### Symptoms

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: 1 = slightly hazardous to water (Self-classification (mixture).)

### 12.2 Persistence and degradability

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





# SAFETY DATA SHEET

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

## Eni aquamet AHS - BAF

Material number 922

Revision date: 17.10.2023

Version: 4.4

Replaces version: 4.3

Language: en-DE

Date of print: 23.10.2023

Page: 9 of 11

### 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 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 surface water or drains. Do not allow to enter into soil/subsoil.

## 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. Non-contaminated packages may be recycled.  
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, 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



# SAFETY DATA SHEET

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

## Eni aquamet AHS - BAF

Material number 922

Revision date: 17.10.2023

Version: 4.4

Replaces version: 4.3

Language: en-DE

Date of print: 23.10.2023

Page: 10 of 11

### 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

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, unless storage class 3  
Water Hazard Class: 1 = slightly hazardous to water (Self-classification (mixture).)  
Technical guidance air: 5.2.5 I: <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):  
1,71 % by weight

#### Labelling of packaging with <= 125mL content



Signal word: **Warning**

Hazard statements: H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements: P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P261 Avoid breathing mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P501 Dispose of contents/container to hazardous or special waste collection point.

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

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

## Eni aquamet AHS - BAF

Material number 922

Revision date: 17.10.2023

Version: 4.4

Replaces version: 4.3

Language: en-DE

Date of print: 23.10.2023

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.  
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.  
H330 = Fatal if inhaled.  
H335 = May cause respiratory irritation.  
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.  
EUH071 = Corrosive to the respiratory tract.

Reason of change: Changes in section 2.3: Endocrine disrupting properties, results of PBT and vPvB assessment  
Changes in section 14: ADN  
General revision

Date of first version: 28.11.2022

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  
Bw: Body weight  
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  
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 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/3ttzgezn>

