

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 SHM-A

UFI: D7A0-D0XU-300S-J7GK

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: Enilive Schmiertechnik GmbH

Street/POB-No.: Paradiesstraße 14

Postal Code, city: 97080 Würzburg

Germany

E-mail: 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

E-mail: 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)

Acute Tox. 4; H302

Harmful if swallowed.

Skin Irrit. 2; H315

Causes skin irritation.

Eye Dam. 1; H318

Causes serious eye damage.

STOT RE 2; H373

May cause damage to organs through prolonged or repeated exposure.

Aquatic Chronic 3; H412

Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (CLP)



Signal word:

Danger



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Hazard statements: H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H373 May cause damage to organs through prolonged or repeated exposure.
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.
P260 Do not breathe mist/vapours/spray.
P264 Wash hands and face thoroughly after handling.
P280 Wear protective gloves/protective clothing and 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.
P501 Dispose of contents/container to hazardous or special waste collection point.

Special labelling

Text for labelling: Contains: Ethanediol; 2-Phenoxyethanol, Potassium hydroxide.

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 substances classified as PBT or vPvB.

| CAS No. | Designation | PBT/vPvB | ED Human | ED Environment |
|---------|---------------|----------|----------|----------------|
| 95-14-7 | Benzotriazole | | | List II |

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Mixture of the substances listed below with non-hazardous additions:



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Hazardous ingredients:

| Identifiers | Designation Classification | Content |
|--|---|-----------|
| REACH 01-2119456816-28-xxxx EC No. 203-473-3 CAS 107-21-1 | Ethanediol Acute Tox. 4; H302. STOT RE 2; H373. | 20 - 25 % |
| 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. | 5 - 10 % |
| REACH 01-2119979079-20-xxxx EC No. 202-394-1 CAS 95-14-7 | Benzotriazole Acute Tox. 4; H302. Eye Irrit. 2; H319. Aquatic Chronic 2; H411. | 5 - 10 % |
| REACH 01-2119487136-33-xxxx EC No. 215-181-3 CAS 1310-58-3 | Potassium hydroxide Met. Corr. 1; H290. Acute Tox. 4; H302. Skin Corr. 1A; H314. Eye Dam. 1; H318. Specific concentration limits (SCL): Skin Corr. 1A; H314: $C \geq 5\%$ / Skin Corr. 1B; H314: $2\% \leq C < 5\%$ / Skin Irrit. 2; H315: $0,5\% \leq C < 2\%$ / Eye Irrit. 2; H319: $0,5\% \leq C < 2\%$ | < 2 % |

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

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. If unconscious place in recovery position and seek medical advice. |
| In case of inhalation: | If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Where appropriate artificial ventilation. 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. Seek the attention of an ophthalmologist immediately. |
| 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

May cause damage to organs through prolonged or repeated exposure. Harmful if swallowed. Causes skin irritation. Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.



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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

In case of fire may be liberated: Nitrogen oxides (NO_x), 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:

Use fine water spray to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely.

Do not allow water used to extinguish fire to enter drains, ground or waterways.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

If possible, eliminate leakage. Provide adequate ventilation.

Wear appropriate protective equipment. Keep unprotected people away.

Take off contaminated clothing and wash it before reuse.

6.2 Environmental precautions

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

If necessary notify appropriate authorities.

6.3 Methods and material for containment and cleaning up

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.



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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. Use protective skin cream before handling the product. 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.

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 together with acids and strong oxidation 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 |
|----------|------------------|----------------------------|---|
| 107-21-1 | Ethanediol | Europe: IOELV: STEL | 104 mg/m ³ ; 40 ppm (may be absorbed through the skin) |
| | | Europe: IOELV: TWA | 52 mg/m ³ ; 20 ppm (may be absorbed through the skin) |
| | | Germany: TRGS 900 Kurzzeit | 52 mg/m ³ ; 20 ppm (Aerosol and vapour, may be absorbed through the skin) |
| | | Germany: TRGS 900 Langzeit | 26 mg/m ³ ; 10 ppm (Aerosol and vapour, may be absorbed through the skin) |
| 122-99-6 | 2-Phenoxyethanol | Germany: TRGS 900 Kurzzeit | 5,7 mg/m ³ ; 1 ppm (Aerosol and vapour) |
| | | Germany: TRGS 900 Langzeit | 5,7 mg/m ³ ; 1 ppm (Aerosol and vapour) |



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DNEL/DMEL:

Information about Ethanediol:

DNEL workers, local, long-term, inhalative: 35 mg/m³

DNEL workers, systemic, long-term, dermal: 106 mg/kg bw/d

DNEL consumer, local, long-term, inhalative: 7 mg/m³

DNEL consumer, systemic, long-term, dermal: 53 mg/kg bw/d

Information about 2-Phenoxyethanol:

DNEL workers, systemic, long-term, inhalative: 5,7 mg/m³

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

Information about Benzotriazole:

DNEL workers, systemic, long-term, inhalative: 4,2 mg/m³

DNEL workers, systemic, long-term, dermal: 0,24 mg/kg bw/d

Information about Potassium hydroxide:

DNEL workers, local, short-term, inhalative: 1 mg/m³

PNEC:

Information about Ethanediol:

PNEC water (freshwater): 10 mg/L

PNEC water (marine water): 1 mg/L

PNEC sediment (freshwater): 20,9 mg/kg dw

PNEC soil: 1,53 mg/kg dw

PNEC sewage treatment plant: 199,5 mg/L

Information about 2-Phenoxyethanol:

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

PNEC water (marine water): 0,0943 mg/L

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

PNEC sewage treatment plant: 36 mg/L

Information about Benzotriazole:

PNEC water (freshwater): 97 µg/L

PNEC water (marine water): 9,7 µg/L

PNEC sediment (freshwater): 1,1 mg/kg dw

PNEC sediment (marine water): 0,11 mg/kg dw

PNEC soil: 0,169 mg/kg dw

PNEC sewage treatment plant: 9,4 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.



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| | |
|--|--|
| Hand protection: | Protective gloves according to DIN 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 Observe glove manufacturer's instructions concerning penetrability and breakthrough time. |
| Eye protection: | Tightly sealed goggles according to DIN 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".

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: | Lemon |
| 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: | No data available |
| Flash point/flash point range: | No data available |
| Decomposition temperature: | No data available |
| pH: | at 20 °C, 5%: 9 (DIN 51369) |
| Viscosity, kinematic: | at 20 °C: approx. 10 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: 1,13 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: | No data available |
| Auto-ignition temperature: | No data available |



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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

Exothermic reactions with acids.

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Acids, strong oxidizing agents.

10.6 Hazardous decomposition products

No known hazardous decomposition products.

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): Acute Tox. 4; H302 = Harmful if swallowed.

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

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

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): STOT RE 2; H373 = May cause damage to organs through prolonged or repeated exposure. May cause damage to kidneys through prolonged or repeated exposure if swallowed.

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 Ethanediol:

LD50 Mouse, dermal: > 3.500 mg/kg

LD50 Rat, inhalative: > 2,5 mg/L/6h (Aerosol)

Information about 2-Phenoxyethanol:

ATE, oral: 1.394 mg/kg

LD50 Rat, oral: 1.840 mg/kg (OECD 401)

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

LD50 Rat, inhalative: > 1.000 mg/m³/6h (Aerosol)

Information about Benzotriazole:

LD50 Rat, oral: 500 mg/kg (OECD 423)

Information about Potassium hydroxide:

LD50 Rat, oral: 333 mg/kg (OECD 425)

Symptoms

Processing vapours can irritate the respiratory tracts, skin and eyes.

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.



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SECTION 12: Ecological information

12.1 Toxicity

| | |
|---------------------|---|
| Aquatic toxicity: | Harmful to aquatic life with long lasting effects. Information about Ethanediol: Fish toxicity: LC50 Pimephales promelas (fathead minnow): 49.000 mg/L/96h Daphnia toxicity: EC50 Daphnia magna (Big water flea): > 100 mg/L/48h (OECD 202) Algae toxicity: NOEC Pseudokirchneriella subcapitata (green algae): > 100 mg/L/72h (OECD 201) Information about 2-Phenoxyethanol: Fish toxicity: LC50 Pimephales promelas (fathead minnow): 344 mg/L/96h Daphnia toxicity: EC50 Daphnia magna (Big water flea): > 500 mg/L/48h (OECD 202) Algae toxicity: EC50 Desmodesmus subspicatus (green algae): > 100 mg/L/72h (OECD 201) Information about Benzotriazole: Fish toxicity: LC50 Danio rerio (zebrafish): 180 mg/L/96h (OECD 203) Daphnia toxicity: EC50 Daphnia magna (Big water flea): 15,8 mg/L/48h (OECD 202) Algae toxicity: EC50 Pseudokirchneriella subcapitata (green algae): 29 mg/L/72h (OECD 201) |
| Water Hazard Class: | 2 = obviously hazardous to water (Self-classification (mixture).) |

12.2 Persistence and degradability

| | |
|------------------|--|
| Further details: | Part of the components is biodegradable. |
|------------------|--|

12.3 Bioaccumulative potential

| | |
|---|---|
| Partition coefficient: n-octanol/water: | No indication of bioaccumulation potential. 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

This product contains a substance that has endocrine disrupting properties with respect to non-target organisms.

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 10* = Synthetic machining oils
* = 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.

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

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.

Observe employment restrictions for expectant or nursing mothers.

Further regulations, limitations and legal requirements:

No data available

National regulations - EC member states

Volatile organic compounds (VOC):

0 % by weight

Labelling of packaging with <= 125mL content



Signal word:

Danger

Hazard statements:

H302 Harmful if swallowed.
H318 Causes serious eye damage.
H373 May cause damage to organs through prolonged or repeated exposure.
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.
P260 Do not breathe mist/vapours/spray.
P264 Wash hands and face thoroughly after handling.
P280 Wear protective gloves/protective clothing and 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.
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.



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SECTION 16: Other information

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

H290 = May be corrosive to metals.
H302 = Harmful if swallowed.
H314 = Causes severe skin burns and eye damage.
H315 = Causes skin irritation.
H318 = Causes serious eye damage.
H319 = Causes serious eye irritation.
H335 = May cause respiratory irritation.
H373 = May cause damage to organs through prolonged or repeated exposure.
H411 = Toxic to aquatic life with long lasting effects.
H412 = Harmful to aquatic life with long lasting effects.

Reason of change: Changes in section 1: Details of the supplier of the safety data sheet
General revision

Date of first version: 22.3.2022

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 Chronic: Hazardous to the aquatic environment - chronic
AS/NZS: Australian Standards/New Zealand Standards
ATE: Acute toxicity estimate
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
EC50: Effective Concentration 50%
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
Met. Corr.: Corrosive to metals
NOEC: No Observed Effect Concentration
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
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



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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/1qymq1gq>

