

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : eni aquamet SHM-A, Art.-no. 0750
Revision date : 01.04.2015
Print date : 20.04.2015

Version (Revision) : 3.0.0 (1.0.1)

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

1.1 Product identifier

eni aquamet SHM-A

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

Relevant identified uses

Metal working fluids

Uses advised against

No information available.

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/downstream user/distributor)

Eni Schmiertechnik GmbH

Street :

Paradiesstraße 14

Postal code/city :

97080 Würzburg

Telephone :

(+49) 931-90098-0

Telefax :

(+49) 931-98442

Information contact :

Technical Department, Tel. (+49) 931 900 98-142

email:

technik.wuerzburg@agip.de, www.enischmiertechnik-datenblaetter.de

1.4 Emergency Telephone Number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Category 3 ; Harmful to aquatic life with long lasting effects.

Acute Tox. 4 ; H302 - Acute toxicity (oral) : Category 4 ; Harmful if swallowed.

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2A ; Causes serious eye irritation.

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

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Exclamation mark (GHS07)

Signal word

Warning

Hazard statements

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

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P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

None

SECTION 3: Composition / information on ingredients

3.2 Mixtures

Description

Mixture of substances listed below with nonhazardous additions.

Hazardous ingredients

ETHANEDIOL ; REACH registration No. : 01-2119456816-28-0000 ; EC No. : 203-473-3; CAS No. : 107-21-1

Weight fraction : 20 - 25 %

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302

2-PHENOXYETHANOL ; REACH registration No. : 01-2119488943-21-0000 ; EC No. : 204-589-7; CAS No. : 122-99-6

Weight fraction : 10 - 15 %

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Eye Irrit. 2 ; H319

1H-BENZOTRIAZOLE (1,2,3) ; REACH registration No. : 01-2119979079-20-XXXX ; EC No. : 202-394-1; CAS No. : 95-14-7

Weight fraction : 5 - 10 %

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Eye Irrit. 2 ; H319 Aquatic Chronic 2 ; H411

POTASSIUM HYDROXIDE ; REACH registration No. : 01-2119487136-33-0000 ; EC No. : 215-181-3; CAS No. : 1310-58-3

Weight fraction : 1 - 2 %

Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290 Skin Corr. 1A ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302

Additional information

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice.

In case of inhalation

Remove victim out of the danger area. Remove casualty to fresh air and keep warm and at rest. Where appropriate artificial ventilation. In case of respiratory tract irritation, consult a physician.

In case of skin contact

Change contaminated, saturated clothing. After contact with skin, wash with plenty of water and soap. In case of skin irritation, consult a physician.

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

After ingestion

Call a physician immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person or a person with cramps.

Self-protection of the first aider

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Protect your self against exposure to chemicals or blood-borne diseases by wearing gloves and eye protection. After providing first aid wash your exposed skin with soap and water.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

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

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

Suitable extinguishing media

Foam, Extinguishing powder, Carbon dioxide (CO₂), Water spray jet, Water mist,

Unsuitable extinguishing media

Strong water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire may be liberated: Carbon dioxide (CO₂), Carbon monoxide, Nitrogen oxides (NO_x), Smoke and other incomplete combustion products.

5.3 Advice for firefighters

No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional information

Do not inhale explosion and combustion gases. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Remove persons to safety. Avoid contact with skin, eyes and clothes. Provide adequate ventilation. Wear breathing apparatus if exposed to vapours/aerosols. Special danger of slipping by leaking/spilling product.

6.2 Environmental precautions

Cover drains. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

In case of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

For containment

Cover drains. Stop and contain spill/release if it can be done safely. Prevent spread over a wide area (e.g. by containment or oil barriers).

For 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). Take up mechanically, placing in appropriate containers for disposal. Ventilate affected area. Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4 Reference to other sections

See Section 8 for information on appropriate personal protective equipment.

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See Section 12 for environmental precautions.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Wear personal protection equipment (see chapter 8). Use only in well-ventilated areas. Open and handle container with care. Always close containers tightly after the removal of product. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray.

Protective measures

Measures to prevent fire

Usual measures for fire prevention.

Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Shafts and sewers must be protected from entry of the product.

Advices on general occupational hygiene

When using do not eat, drink, smoke. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Use protective skin cream before handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Packaging materials

Only use containers specifically approved for the substance/product.

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Protect containers against damage. Floors should be impervious, resistant to liquids and easy to clean.

Hints on joint storage

Keep away from: Oxidising agent

Storage class : 12

Storage class (TRGS 510) : 8B

Do not store together with

Food and feedingstuffs

Further information on storage conditions

Recommended storage temperature : 5 - 40°C / 40 - 105°F.

Protect against : Heat, UV-radiation/sunlight, Frost,

Storage stability : Product may be stored for up to 12 months under described conditions.

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

ETHANEDIOL ; CAS No. : 107-21-1

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 10 ppm / 26 mg/m³

Peak limitation : 2(I)

Remark : H,Y

Version : 01.09.2012

Limit value type (country of origin) : STEL (EC)

Limit value : 40 ppm / 104 mg/m³

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Remark : H
Version : 08.06.2000
Limit value type (country of origin) : TWA (EC)
Limit value : 20 ppm / 52 mg/m³
Remark : H
Version : 08.06.2000

2-PHENOXYETHANOL ; CAS No. : 122-99-6

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 20 ppm / 110 mg/m³
Peak limitation : 2(I)
Remark : H, Y
Version : 01.09.2012

metal working coolant

Limit value type (country of origin) : AGW (D)
Parameter : vapour + aerosol
Limit value : 10 mg/m³
Version :

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type : DNEL/DMEL (Industrial) (ETHANEDIOL ; CAS No. : 107-21-1)
Exposure route : Dermal
Exposure frequency : chronic / systemic effects
Limit value : 106 mg/kg
Limit value type : DNEL/DMEL (Industrial) (ETHANEDIOL ; CAS No. : 107-21-1)
Exposure route : Inhalation
Exposure frequency : chronic / systemic effects
Limit value : 35 mg/m³
Limit value type : DNEL/DMEL (Industrial) (2-PHENOXYETHANOL ; CAS No. : 122-99-6)
Exposure route : Inhalation
Exposure frequency : chronic / systemic effects
Limit value : 8,07 mg/m³
Limit value type : DNEL/DMEL (Industrial) (2-PHENOXYETHANOL ; CAS No. : 122-99-6)
Exposure route : Dermal
Exposure frequency : chronic / systemic effects
Limit value : 34,72 mg/kg
Limit value type : DNEL/DMEL (Worker, Systemic) (1H-BENZOTRIAZOLE (1,2,3) ; CAS No. : 95-14-7)
Exposure route : Dermal
Limit value : 1,08 mg/kg bw/d
Limit value type : DNEL/DMEL (Worker, Systemic) (1H-BENZOTRIAZOLE (1,2,3) ; CAS No. : 95-14-7)
Exposure route : Inhalation
Limit value : 19 mg/m³

Remark

The DNEL may differ from an Occupational Exposure Limit (OEL) for the same chemical. OELs are considered to be safe exposure levels for a typical worker in an occupational setting for an 8-hour work shift, 40 hour work week, as a time weighted average (TWA) or a 15 minute short-term exposure limit (STEL). The Derived No Effect Level (DNEL) is an estimated safe level of exposure that is derived from toxicity data in accord with specific guidance within the European REACH regulation.

PNEC

Limit value type : Fresh water : (ETHANEDIOL ; CAS No. : 107-21-1)
Limit value : 10 mg/l
Limit value type : Sea water : (ETHANEDIOL ; CAS No. : 107-21-1)
Limit value : 1 mg/l
Limit value type : Sediment (fresh water) : (ETHANEDIOL ; CAS No. : 107-21-1)

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Limit value :	20,9 mg/kg
Limit value type :	Sewage plant : (ETHANEDIOL ; CAS No. : 107-21-1)
Limit value :	199,5 mg/l
Limit value type :	Soil : (ETHANEDIOL ; CAS No. : 107-21-1)
Limit value :	1,53 mg/kg
Limit value type :	Fresh water : (2-PHENOXYETHANOL ; CAS No. : 122-99-6)
Limit value :	0,943 mg/l
Limit value type :	Sea water : (2-PHENOXYETHANOL ; CAS No. : 122-99-6)
Limit value :	0,0943 mg/l
Limit value type :	Water (sporadic release): (2-PHENOXYETHANOL ; CAS No. : 122-99-6)
Limit value :	3,44 mg/l
Limit value type :	Sediment (fresh water) : (2-PHENOXYETHANOL ; CAS No. : 122-99-6)
Limit value :	7,2366 mg/kg
Limit value type :	Sediment (sea water) : (2-PHENOXYETHANOL ; CAS No. : 122-99-6)
Limit value :	0,7237 mg/kg
Limit value type :	Sewage plant : (2-PHENOXYETHANOL ; CAS No. : 122-99-6)
Limit value :	24,8 mg/l
Limit value type :	Soil : (2-PHENOXYETHANOL ; CAS No. : 122-99-6)
Limit value :	1,26 mg/kg
Limit value type :	PNEC aquatic, freshwater (1H-BENZOTRIAZOLE (1,2,3) ; CAS No. : 95-14-7)
Limit value :	0,0194 mg/l
Limit value type :	PNEC aquatic, marine water (1H-BENZOTRIAZOLE (1,2,3) ; CAS No. : 95-14-7)
Limit value :	0,0194 mg/l
Limit value type :	PNEC sediment, freshwater (1H-BENZOTRIAZOLE (1,2,3) ; CAS No. : 95-14-7)
Limit value :	0,00375 mg/kg
Limit value type :	PNEC sediment, marine water (1H-BENZOTRIAZOLE (1,2,3) ; CAS No. : 95-14-7)
Limit value :	0,00375 mg/kg
Limit value type :	PNEC sewage treatment plant (STP) (1H-BENZOTRIAZOLE (1,2,3) ; CAS No. : 95-14-7)
Limit value :	39,4 mg/l

8.2 Exposure controls

Appropriate engineering controls

Use only in well-ventilated areas. If handled uncovered, arrangements with local exhaust ventilation should be used if possible. 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

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Eye/face protection

Eye glasses with side protection (DIN EN 166)

Skin protection

Hand protection

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Tested protective gloves must be worn: DIN EN 374 Do not wear gloves near rotary machines and tools.

Suitable material :

Wearing time with permanent contact:

Material: NBR (Nitrile rubber), CR (polychloroprene, chloroprene rubber),

Thickness of the glove material: 0,70 mm

Breakthrough time (maximum wearing time): > 480 min

Wearing time with occasional contact (splashes):

Material: NBR (Nitrile rubber), CR (polychloroprene, chloroprene rubber),

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Thickness of the glove material: 0,40 mm
Breakthrough time (maximum wearing time): > 30 min

Breakthrough time (maximum wearing time) : For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Check leak tightness/impermeability prior to use.

Body protection

If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.

Additional body protection measures : When handling product in drums, safety footwear should be worn and proper handling equipment should be used.

Respiratory protection

Usually no personal respiratory protection necessary. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Respiratory protection necessary at: exceeding exposure limit values insufficient ventilation aerosol or mist formation.

General health and safety measures

When using do not eat, drink, smoke. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Wash contaminated clothing prior to re-use. Apply skin care products after work.

Environmental exposure controls

Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : light yellow

Odour : Lemon

Safety relevant basis data

pH value :	(20 °C / 5 Wt %)		9	DIN 51369
Melting point/melting range :			No data available	
Boiling temperature :	(1013 hPa)	>	100 °C	
Flash point :			No data available	DIN EN ISO 2592
Pour Point:		<	-10 °C	
Flammability (Solid, Gas):			not applicable	
Lower explosion limit :			No data available	
Upper explosion limit :			No data available	
Vapour pressure :	(20 °C)		No data available	
Vapour Density (Air = 1):			no data available	
Evaporation Rate :			no data available	
Density :	(15 °C)		1,13 g/cm ³	DIN EN ISO 12185
Water solubility :	(20 °C)		miscible	
Partition Coefficient (n-octanol/water):	(log Pow)		not applicable	
Viscosity :	(20 °C)	ca.	10 mm ² /s	DIN EN ISO 3104
Ignition temperature :			No data available	
Decomposition temperature :			No data available	
Odour threshold :			No data available	
Oxidizing Properties:			not oxidising	
Explosive Properties:			not explosive	
Maximum VOC content (Switzerland) :			0 Wt %	

9.2 Other information

None

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SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

Exothermic reaction with: Acid

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Oxidising agent, strong.
Acid

10.6 Hazardous decomposition products

Hazardous decomposition products are not expected to form during normal storage.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicological data are not available. The statement is derived from the properties of the single components.

Acute effects

Harmful by inhalation.

Irritant and corrosive effects

Primary irritation to the skin

Irritating to skin.

Irritation to eyes

Irritating to eyes.

Sensitisation

not sensitising.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

no known significant effects or critical hazards.

Germ cell mutagenicity/Genotoxicity

no known significant effects or critical hazards.

Reproductive toxicity

no known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

STOT SE 1 and 2

Not expected to cause organ damage from a single exposure.

Specific target organ toxicity (repeated exposure)

STOT RE 1 and 2

Not expected to cause organ damage from prolonged or repeated exposure.

Aspiration hazard

Based on the available data the classification criteria for aspiration toxicity are not met. For viscosity data, see chapter 9.

11.3 Other adverse effects

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

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SECTION 12: Ecological information

12.1 Toxicity

For the product ecotoxicological data are not available. The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see chapter 3).

Aquatic toxicity

Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Biodegradation

Part of the components is biodegradable.

12.3 Bioaccumulative potential

Contains components with the potential to bioaccumulate.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

The substance does not fulfill the screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB.

12.6 Other adverse effects

No information available.

12.7 Further ecological information

Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Waste code product

12 01 10*

However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

Waste code packaging

Waste name

Synthetic machining oils.

Waste treatment options

Appropriate disposal / Product

Consult the appropriate local waste disposal expert about waste disposal. Dispose according to legislation.

Appropriate disposal / Package

Non-contaminated packages may be recycled. Packing which cannot be properly cleaned must be disposed of. Dispose of waste according to applicable legislation.

SECTION 14: Transport information

14.1 UN number

No dangerous goods in sense of this transport regulation.

14.2 UN proper shipping name

No dangerous goods in sense of this transport regulation.

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14.3 Transport hazard class(es)

No dangerous goods in sense of this transport regulation.

14.4 Packing group

No dangerous goods in sense of this transport regulation.

14.5 Environmental hazards

No dangerous goods in sense of this transport regulation.

14.6 Special precautions for user

None

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Water hazard class (WGK)

Class : 2 (Hazardous to water) Classification according to VwVwS

Other regulations, restrictions and prohibition regulations

VOCV-Regulation (CH)

Volatile organic compounds (VOC) content in percent by weight : 0 %

15.2 Chemical Safety Assessment

No information available.

SECTION 16: Other information

16.1 Indication of changes

02. Classification of the substance or mixture · 02. Label elements · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 02. Labelling (67/548/EEC or 1999/45/EC) · 02. Labelling (67/548/EEC or 1999/45/EC) - Hazard components for labelling · 03. Hazardous ingredients · 07. Hints on joint storage - Storage class · 14. UN proper shipping name - Land transport (ADR/RID) · 14. UN proper shipping name - Sea transport (IMDG) · 14. UN proper shipping name - Air transport (ICAO-TI / IATA-DGR) · 14. Transport hazard class(es) - Land transport (ADR/RID) · 14. Transport hazard class(es) - Sea transport (IMDG) · 14. Transport hazard class(es) - Air transport (ICAO-TI / IATA-DGR) · 15. Technische Anleitung Luft (TA-Luft)

16.2 Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CLP: Regulation for Classification, Labelling and Packaging

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

EC50: Effective concentration, 50 percent

DNEL: Derived No Effect Level

PNEC: Predicted No Effect Concentration

PBT: Persistent, Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative

16.3 Key literature references and sources for data

Sources of information used in preparing this SDS included one or more of the following: Product Dossiers and SDS from suppliers, complemented by public sources, as appropriate (GESTIS, the EU IUCLID Data Base, U.S. NTP publications, e.g.).

16.4 Relevant H- and EUH-phrases (Number and full text)

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye 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.

16.5 Training advice

Provide adequate information, instruction and training for operators.

16.6 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.