

**Safety Data Sheet**  
**according to Regulation (EC) No.**  
**1907/2006 (REACH)**

**eimermacher** since 1910



**Trade name :** eimü Ferdei-Rox Classic  
**Revision date :** 29.05.2024  
**Print date :** 04.12.2024

**Version :** 1.0.0

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

**1.1 Product identifier**

eimü Ferdei-Rox Classic  
Unique Formula Identifier (UFI) : UXKK-F3U7-100C-TV10

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

Surface cleaning  
PP-BIO-3 - Biocidal products for veterinary hygiene

**1.3 Details of the supplier of the safety data sheet**

**Supplier**

Ferdinand Eimermacher GmbH & Co. KG

**Street :** Westring 24

**Postal code/City :** 48356 Nordwalde

**Country :** Deutschland

**Telephone :** +49 2573/9390-0

**Telefax :** +49 2573/2053

**Information contact :** info@eimermacher.de  
www.eimermacher.de

**1.4 Emergency telephone number**

Germany: Poisons Information Centre Berlin  
Charité – Universitätsmedizin Berlin  
Campus Benjamin Franklin  
Haus VIII, UG  
Hindenburgdamm 30  
D-12203 Berlin  
+49(0)30/30686 700, Internat. INFOTRAC +1 3523233500

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

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

Met. Corr. 1 ; H290 - Corrosive to metals : Category 1 ; May be corrosive to metals.  
Acute Tox. 4 ; H302 - Acute toxicity (oral) : Category 4 ; Harmful if swallowed.  
Skin Corr. 1B ; H314 - Skin corrosion/irritation : Category 1B ; Causes severe skin burns and eye damage.  
Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

**2.2 Label elements**

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

**Hazard pictograms**



Corrosion (GHS05) · Exclamation mark (GHS07)

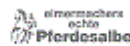
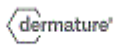
**Signal word**

Danger

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## Hazard components for labelling

PHOSPHORIC ACID 24 % ; CAS No. : 7664-38-2

## Hazard statements

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

## Precautionary statements

P234 Keep only in original packaging.  
P260 Do not breathe mist/vapours/spray.  
P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection  
P310 Immediately call a POISON CENTER/doctor.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P501 Dispose of contents/container to to hazardous or special waste collection point

## Special rules for supplemental label elements for certain mixtures

O220 Restricted to professional users.

## 2.3 Other hazards

### Adverse human health effects and symptoms

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

### Adverse environmental effects

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 substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

PHOSPHORIC ACID ; REACH No. : 01-2119485924-24-XXXX ; EC No. : 231-633-2; CAS No. : 7664-38-2

Weight fraction :  $\geq 20 - < 25$  %  
Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290 Skin Corr. 1B ; H314 Acute Tox. 4 ; H302 Eye Irrit. 2 ; H319  
Specific Conc. Limits : Eye Dam. 1 ; H318: C  $\geq 25$  % • Skin Corr. 1B ; H314: C  $\geq 25$  % • Skin Corr. 1C ;  
H314: C  $\geq 25$  % • Eye Irrit. 2 ; H319: C  $\geq 10$  % • Skin Irrit. 2 ; H315: C  $\geq 10$  %

2-(2-BUTOXYETHOXY)ETHANOL ; EC No. : 203-961-6; CAS No. : 112-34-5

Weight fraction :  $\geq 5 - < 10$  %  
Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

Alcohols,C13-15-branched and linear,butoxylated ethoxylated ; CAS No. : 111905-53-4

Weight fraction :  $\geq 1 - < 2,5$  %  
Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Eye Irrit. 2 ; H319 Aquatic Acute 1 ; H400 Aquatic Chronic 3 ;  
H412  
Specific Conc. Limits : (M Acute=1)

IODINE ; REACH No. : 01-2119485285-XXXX ; EC No. : 231-442-4; CAS No. : 7553-56-2

Weight fraction :  $\geq 0,25 - < 0,5$  %  
Classification 1272/2008 [CLP] : STOT RE 1 ; H372 Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332  
Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335 Aquatic Acute 1 ; H400  
Specific Conc. Limits : (M=1)

#### Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

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## 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.

#### Following inhalation

In case of respiratory tract irritation, consult a physician. Remove casualty to fresh air and keep warm and at rest.

#### In case of skin contact

In case of skin reactions, consult a physician. Wash immediately with: Water and soap

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### Following ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Seek medical advice immediately (poison centre).

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

#### Symptoms

Important or further important known symptoms and effects are described in the GHS labelling of the product (see section 2) and in section 11 (Toxicological information). (Further) symptoms and/or effects are not yet known.

In our experience, no special hazards are to be expected if the product is handled properly and is used as intended.

### 4.3 Indication of any immediate medical attention and special treatment needed

treatment: Symptoms (decontamination, vital functions), no known specific antidote.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Foam , Carbon dioxide (CO<sub>2</sub>) , Dry extinguishing powder , Sand , Co-ordinate fire-fighting measures to the fire surroundings.

#### Unsuitable extinguishing media

Full water jet , Strong water jet

### 5.2 Special hazards arising from the substance or mixture

Thermal decomposition can lead to the escape of irritating gases and vapours.

### 5.3 Advice for firefighters

#### Special protective equipment for firefighters

Full protection suit , Use suitable breathing apparatus.

### 5.4 Additional information

Move undamaged containers from immediate hazard area if it can be done safely.

## SECTION 6: Accidental release measures

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

Provide adequate ventilation. See protective measures under point 7 and 8. Special danger of slipping by leaking/spilling product.

### 6.2 Environmental precautions

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

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

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Clear contaminated areas thoroughly. Treat the recovered material as prescribed in the section on waste disposal.

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## 6.4 Reference to other sections

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

It is recommended to design all work processes always so that the following is excluded: Inhalation of vapours or spray/mists  
Handle and open container with care. Use only in well-ventilated areas.

#### Protective measures

##### Measures to prevent fire

Usual measures for fire prevention. Always close containers tightly after the removal of product.

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

Keep container tightly closed.  
Protect against UV-radiation/sunlight, Heat.

#### Requirements for storage rooms and vessels

Floors should be impervious, resistant to liquids and easy to clean. Keep/Store only in original container. Keep container tightly closed.

#### Hints on joint storage

**Storage class (TRGS 510) :** 8B

### 7.3 Specific end use(s)

Observe instructions for use. see section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

PHOSPHORIC ACID ; CAS No. : 7664-38-2

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

Parameter : E: inhalable fraction

Limit value : 2 mg/m<sup>3</sup>

Peak limitation : 2(I)

Remark : Y

Version : 27.10.2020

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

Limit value : 2 mg/m<sup>3</sup>

Version : 20.06.2019

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

Limit value : 1 mg/m<sup>3</sup>

Version : 20.06.2019

2-(2-BUTOXYETHOXY)ETHANOL ; CAS No. : 112-34-5

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

Limit value : 10 ppm / 67 mg/m<sup>3</sup>

Peak limitation : 1,5(I)

Remark : Y

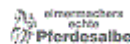
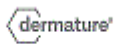
Version : 23.06.2022

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

Limit value : 15 ppm / 101,2 mg/m<sup>3</sup>

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Version : 20.06.2019  
Limit value type (country of origin) : TWA ( EC )  
Limit value : 10 ppm / 67,5 mg/m<sup>3</sup>  
Version : 20.06.2019  
IODINE ; CAS No. : 7553-56-2  
Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 0,1 ppm / 1,1 mg/m<sup>3</sup>  
Peak limitation : 1(I)  
Remark : H  
Version : 02.04.2014

**DNEL-/PNEC-values**

**DNEL/DMEL**

PHOSPHORIC ACID ; CAS No. : 7664-38-2

Limit value type : DNEL Consumer (local)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 0,36 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 0,1 mg/kg  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 4,57 mg/l  
Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 1 mg/m<sup>3</sup>  
Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 2 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 10,7 mg/l

IODINE ; CAS No. : 7553-56-2

Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Short-term  
Limit value : 0,01 mg/kg bw/day  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 1 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 0,01 mg/kg bw/day  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term

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Limit value : 0,07 mg/m<sup>3</sup>

## PNEC

IODINE ; CAS No. : 7553-56-2

Limit value type : PNEC (Aquatic, freshwater)  
Limit value : 0,01813 mg/l  
Limit value type : PNEC (Aquatic, marine water)  
Limit value : 0,06 mg/l  
Limit value type : PNEC (Sediment, freshwater)  
Limit value : 3,99 mg/kg dw  
Limit value type : PNEC (Sediment, marine water)  
Limit value : 20,22 mg/kg dw  
Limit value type : PNEC (Soil)  
Exposure route : Soil  
Limit value : 5,95 mg/kg dw  
Limit value type : PNEC (Sewage treatment plant)  
Limit value : 11 mg/l

## 8.2 Exposure controls

### Personal protection equipment

Use personal protection equipment.

### Eye/face protection



Eye glasses with side protection EN 166

### Skin protection

#### Hand protection



**By short-term hand contact :** Suitable gloves type Disposable gloves. NBR (Nitrile rubber)

**By long-term hand contact :** Check leak tightness/impermeability prior to use.

Suitable material CR (polychloroprene, chloroprene rubber) , NBR (Nitrile rubber) , Butyl caoutchouc (butyl rubber) , NR (natural rubber, Natural latex)

Breakthrough time 480 min

Thickness of the glove material Polychloroprene - CR (0.5 mm) Nitrile rubber/nitrile latex - NBR (0.35 mm) Butyl rubber - Butyl (0.5 mm)

**Required properties :** When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. EN ISO 374

**Remark :** Check leak tightness/impermeability prior to use. Breakthrough times and swelling properties of the material must be taken into consideration.

#### Body protection

Wear anti-static footwear and clothing

Protective clothing. EN 13034 Natural fibres (e.g. cotton) , heat-resistant synthetic fibres

Chemical resistant safety shoes DIN EN 13832-2

### Respiratory protection

Usually no personal respiratory protection necessary.

### General information

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

## SECTION 9: Physical and chemical properties

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## 9.1 Information on basic physical and chemical properties

**Appearance :** Liquid  
**Colour :** red brown  
**Odour :** characteristic

### Safety characteristics

<b>Physical state :</b>			Liquid
<b>Melting point/freezing point :</b>			not determined
<b>Initial boiling point and boiling range :</b>	( 1013 hPa )		not determined
<b>Decomposition temperature :</b>			not determined
<b>Flash point :</b>			not applicable
<b>Auto-ignition temperature :</b>			not applicable
<b>Lower explosion limit :</b>			not applicable
<b>Upper explosion limit :</b>			not applicable
<b>Vapour pressure :</b>	( 50 °C )		not applicable
<b>Density :</b>	( 20 °C )		1,135 - 1,155 g/cm <sup>3</sup>
<b>Solvent separation test :</b>	( 20 °C )		not applicable
<b>Water solubility :</b>	( 20 °C )		not determined
<b>Fat solubility :</b>	( 20 °C )		Not determined.
<b>pH :</b>			2
<b>pH :</b>	( 20 °C / 10 g/l )		2 - 2,3
<b>log P O/W :</b>			not determined
<b>Flow time :</b>	( 20 °C )		not applicable
<b>Viscosity :</b>	( 20 °C )	<	20 mPa*s
<b>Cinematic viscosity :</b>	( 40 °C )		not relevant
<b>Odour threshold :</b>			not determined
<b>Relative vapour density :</b>	( 20 °C )		not determined
<b>Vapourisation rate :</b>			not determined
<b>Maximum VOC content (EC) :</b>			9 Weight-%
<b>Flammable solids :</b>		Not applicable.	
<b>Flammable gases :</b>		Not applicable.	
<b>Oxidising liquids :</b>		Not relevant.	
<b>Explosive properties :</b>		Not applicable.	
<b>Corrosive to metals :</b>		May be corrosive to metals.	

## 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

See section 7 of the safety data sheet.

### 10.5 Incompatible materials

None known.

### 10.6 Hazardous decomposition products

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Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Harmful: possible risk of irreversible effects if swallowed.

#### Corrosion

Causes severe skin burns and eye damage.

#### Respiratory or skin sensitisation

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

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

##### Carcinogenicity

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

##### Germ cell mutagenicity

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

##### Reproductive toxicity

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

#### STOT-single exposure

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

#### STOT-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 potential:

The product does not contain any substance above the legal limits that is included in the list established under Article 59(1) of Regulation (EC) No 1907/2006 on the basis of endocrine disrupting properties or that has endocrine disrupting or endocrine damaging properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

Other indications of toxicity

The product has not been tested. The statements on toxicology were derived from the properties of the individual components.

## SECTION 12: Ecological information

### 12.1 Toxicity

The product has not been tested. The statement is derived from the properties of the single components.

#### Aquatic toxicity

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

### 12.2 Persistence and degradability

No information available.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

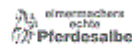
### 12.5 Results of PBT and vPvB assessment



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This product does not contain components in concentrations of 0.1% or higher which are classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## 12.6 Endocrine disrupting properties

The product does not contain any substance above the legal limits that is included in the list established under Article 59(1) of Regulation (EC) No 1907/2006 on the basis of endocrine disrupting properties or that has endocrine disrupting or endocrine damaging properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## 12.7 Other adverse effects

The product does not contain any substances listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

## 12.8 Additional ecotoxicological information

### Additional information

Discharge into the environment must be avoided.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Dispose according to legislation.

### 13.2 Additional information

Non-contaminated packages may be recycled.

## SECTION 14: Transport information

### 14.1 UN number or ID number

UN 1805

### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

PHOSPHORIC ACID, SOLUTION

#### Sea transport (IMDG)

PHOSPHORIC ACID, SOLUTION

#### Air transport (ICAO-TI / IATA-DGR)

PHOSPHORIC ACID, SOLUTION

### 14.3 Transport hazard class(es)

#### Land transport (ADR/RID)

Class(es) : 8  
Classification code : C9  
Hazard identification number (Kemler No.) : 80  
Tunnel restriction code : E  
Special Provisions : LQ 5 I · E 1  
Hazard label(s) : 8

#### Sea transport (IMDG)

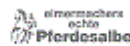
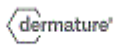
Class(es) : 8  
EmS-No. : F-A / S-B  
Special Provisions : LQ 5 I · E 1  
Hazard label(s) : 8

#### Air transport (ICAO-TI / IATA-DGR)

Class(es) : 8  
Special Provisions : E 1

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**Hazard label(s) :** 8

**14.4 Packing group**

III

**14.5 Environmental hazards**

**Land transport (ADR/RID) :** No

**Sea transport (IMDG) :** No

**Air transport (ICAO-TI / IATA-DGR) :** No

**14.6 Special precautions for user**

None

**14.7 Maritime transport in bulk according to IMO instruments**

No transport as bulk according to IBC Code.

**SECTION 15: Regulatory information**

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

**EU legislation**

Biocide directive ((EU) No. 528/2012)

**Authorisations and/or restrictions on use**

**Restrictions on use**

**Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)**

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

**National regulations**

**Water hazard class**

Classification according to AwSV - Class : 1 (Slightly hazardous to water)

**15.2 Chemical Safety Assessment**

A chemical safety assessment has not been carried out for this preparation. For the following substances of this mixture/preparation a chemical safety assessment has been carried out :

PHOSPHORIC ACID ; REACH No. : 01-2119485924-24-XXXX ; EC No. : 231-633-2; CAS No. : 7664-38-2

IODINE ; REACH No. : 01-2119485285-XXXX ; EC No. : 231-442-4; CAS No. : 7553-56-2 (M=1)

**SECTION 16: Other information**

**16.1 Indication of changes**

None

**16.2 Abbreviations and acronyms**

ADR = European Agreement concerning the carriage of Dangerous goods by Road

ADN = European Agreement concerning the Carriage of Dangerous Goods by Inland Waterways

ATE = Estimated values for acute toxicity

AwSV = Ordinance on Installations for Handling Substances Hazardous to Water

CAS = Chemical Abstract Service Number

CE = European Community

CLP = EC Regulation 1272/2008

CMR = cancerogen mutagen reprotoxic

DIN = German Institute for Standardisation

DNEL = Derived No Effect Level

DMEL = Derived Minimum Effect Level

EC50 = Mean effective concentration that induces a defined effect other than death in a test population

EG = European Community

EN = European standards

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IATA = International Air Transport Association Dangerous Goods Regulation  
IBC-Code = International Code for the construction and equipment of ships carrying dangerous chemicals in large quantities  
IMDG = International Maritime Code for dangerous goods  
ISO = International Organization for Standardization  
LC50 = Lethal Concentration 50%  
LD50 = Lethal dose 50%  
MAK = Maximum workplace concentration  
MARPOL = International Convention for the Protection of the Marine Environment from Ship-generated Litter  
NOEC = No Observed Effect Concentration  
OECD = Organisation for Economic Cooperation and Development  
PBT = Persistent, bioaccumulative and toxic  
pH = potential of hydrogen  
PNEC = Predicted no effect concentration  
PPM = parts per million  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals (EC Regulation 1907/2006)  
RID = Regulation concerning the international transport of dangerous goods by train  
TRGS = Technical rules for hazardous substances (german rules)  
TWA = Time-weighted average exposure limit  
UN-Number = UN number for the transport of dangerous goods  
vPvB = Very Persistent and very Bioaccumulative as for REACH Regulation  
VOC = Volatile organic Compounds

## 16.3 Key literature references and sources for data

None

## 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

## 16.5 Relevant H- and EUH-phrases (Number and full text)

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

## 16.6 Training advice

None

## 16.7 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.