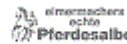
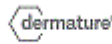


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Revision date : 06.03.2023
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SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

eimü Ferdei-Rox
Unique Formula Identifier (UFI) : 5JSJ-N3HQ-C00V-0THW
Product category : PP-BIO-3 - Biocidal products for veterinary hygiene

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

Relevant identified uses

Milking Cluster disinfection, ready to use.

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]

The hazardous substance labelling corresponds to the approval data of the Meta-SPC 1 of the iodine family of 05.08.2022.

Met. Corr. 1 ; H290 - Corrosive to metals : Category 1 ; May be corrosive to metals.

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

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

2.2 Label elements

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

Hazard pictograms



Corrosion (GHS05) · Exclamation mark (GHS07)

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Signal word

Warning

Hazard statements

H290 May be corrosive to metals.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P234 Keep only in original packaging.
P264 Wash hands thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P337+P313 If eye irritation persists: Get medical advice/attention.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P390 Absorb spillage to prevent material damage.
P501 Dispose of contents/container in accordance with local and national legislation.

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

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

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

Weight fraction : $\geq 1 - < 5$ %
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 ≥ 25 % • Skin Corr. 1B ; H314: C ≥ 25 % • Skin Corr. 1C ;
H314: C ≥ 25 % • Eye Irrit. 2 ; H319: C ≥ 10 % • Skin Irrit. 2 ; H315: C ≥ 10 %

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

Weight fraction : $\geq 1 - < 5$ %
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

When in doubt or if symptoms are observed, get medical advice. Remove contaminated, saturated clothing immediately.

Following inhalation

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

In case of skin contact

Subsequently wash off with: Water and soap In case of skin reactions, consult a physician.

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

Do NOT induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let water be drunken in little sips (dilution effect). Seek medical advice immediately (poison centre).

4.2 Most important symptoms and effects, both acute and delayed

Irritation of the stomach lining or gastrointestinal tract, nausea, vomiting.

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

Co-ordinate fire-fighting measures to the fire surroundings.

Suitable extinguishing media

Foam , Extinguishing powder , Carbon dioxide (CO₂) , Sand

Unsuitable extinguishing media

Full 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

Use personal protection equipment. 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.

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6.3 Methods and material for containment and cleaning up

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

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

All work processes must always be designed so that the following is excluded: Skin contact Eye contact Inhalation of vapours or spray/mists

Use made-up preparation without delay - do not store. Put lids on containers immediately after use. 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 locked up and out of reach of children. Keep container tightly closed in a cool, well-ventilated place. Protect against UV-radiation/sunlight, Heat, Frost

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

Use personal protection equipment.

8.1 Control parameters

Occupational exposure limit values

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

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

Limit value : 10 ppm / 67 mg/m³

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/m³

Version : 20.06.2019

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

Limit value : 10 ppm / 67,5 mg/m³

Version : 20.06.2019

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

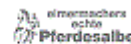
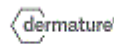
Limit value type (country of origin) : TRGS 900 (D)

Parameter : E: inhalable fraction

Limit value : 2 mg/m³

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Trade name : eimü Ferdei-Rox
Revision date : 06.03.2023
Print date : 04.12.2024

Version (Revision) : 5.0.0 (4.0.0)

Peak limitation : 2(I)
Remark : Y
Version : 27.10.2020
Limit value type (country of origin) : STEL (EC)
Limit value : 2 mg/m³
Version : 20.06.2019
Limit value type (country of origin) : TWA (EC)
Limit value : 1 mg/m³
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/m³
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/m³
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/m³
Limit value type : DNEL worker (local)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 2 mg/m³
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/m³
Limit value type : DNEL worker (systemic)
Exposure route : Dermal

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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
Limit value : 0,07 mg/m³

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

Immediately remove any contaminated clothing, shoes or stockings. Wash hands before breaks and after work. Provide adequate ventilation.

Personal protection equipment

Eye/face protection



Eye glasses with side protection EN 166

Skin protection

Hand protection



EN ISO 374

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)

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

Breakthrough time : 480 min

Thickness of the glove material : 5 mm

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

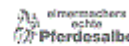
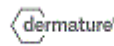
Protective clothing. EN 13034 Natural fibres (e.g. cotton) , heat-resistant synthetic fibres

Chemical resistant safety shoes DIN EN 13832-2

Respiratory protection

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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

9.1 Information on basic physical and chemical properties

Appearance : Liquid
Colour : brown
Odour : characteristic

Safety characteristics

Physical state :			Liquid	
Melting point/freezing point :			not relevant	
Initial boiling point and boiling range :	(1013 hPa)	approx.	100	°C
Decomposition temperature :			not determined	
Flash point :			not applicable	
Auto-ignition temperature :			not applicable	
Lower explosion limit :			not applicable	
Upper explosion limit :			not applicable	
Vapour pressure :	(50 °C)		not applicable	
Density :	(20 °C)		1,06	g/cm ³
Solvent separation test :	(20 °C)		not applicable	
Water solubility :	(20 °C)		100	Weight-%
Fat solubility :	(20 °C)		Not determined.	
pH :		approx.	1,5	
log P O/W :			not determined	
Flow time :	(20 °C)		not applicable	DIN-cup 4 mm
Viscosity :	(20 °C)		not determined	
Cinematic viscosity :	(40 °C)		not relevant	
Odour threshold :			not determined	
Relative vapour density :	(20 °C)		not determined	
Vapourisation rate :			not determined	
Maximum VOC content (EC) :			6	Weight-%
Flammable solids :		Not applicable.		
Flammable gases :		Not applicable.		
Oxidising liquids :		Not relevant.		
Explosive properties :		Not applicable.		
Corrosive to metals :		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.

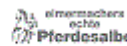
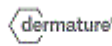
10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

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See section 7 of the safety data sheet.

10.5 Incompatible materials

Oxidising agent, strong.

10.6 Hazardous decomposition products

Iodine

SECTION 11: Toxicological information

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

Acute toxicity

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

Additional information

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

Corrosion

Skin corrosion/irritation

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

Serious eye damage/eye irritation

Causes serious eye irritation.

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

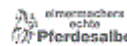
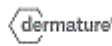
12.1 Toxicity

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

Aquatic toxicity

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Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

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

Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose according to legislation.

13.2 Additional information

Handle contaminated packages in the same way as the substance itself.

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 : C1
Hazard identification number (Kemler No.) : 80
Tunnel restriction code : E

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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
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

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

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

Water hazard class

Self-classification - Class : 2 (Obviously 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

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)

16.2 Abbreviations and acronyms

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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
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]

The hazardous substance labelling corresponds to the approval data of the iodine family meta-SPC of 05.08.2022.

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

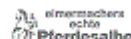
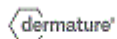
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H372	Causes damage to organs through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

16.6 Training advice

None

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

eimermacher since 1910



Trade name : eimü Ferdei-Rox
Revision date : 06.03.2023
Print date : 04.12.2024

Version (Revision) : 5.0.0 (4.0.0)

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.
