

**Trade name :** Lithofin KF Mildew-Away

Revision date : 23.05.2017  
Print date : 13.06.2017

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

### 1.1 Product identifier

Lithofin KF Mildew-Away

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

Mixture Washing and cleaning products, alkaline

### 1.3 Supplier (manufacturer/importer/only representative/downstream user/distributor)

**Supplier :** Lithofin AG  
**Street :** Heinrich-Otto-Str. 36  
**Postal code/city :** 73240 Wendlingen  
**Telephone :** +49 (0)7024 9403-0  
**Telefax :** +49 (0)7024 9403-40  
**Contact :** Technical Department  
E-mail: info@lithofin.de

Emergency telephone number:  
+49 (0)7024 9403-0  
(Only available during office hours)

### 1.4 Emergency telephone number

see section 1.3

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Aquatic Acute 1 ; H400 - Hazardous to the aquatic environment : Acute 1 ; Very toxic to aquatic life.  
Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.  
Skin Corr. 1B ; H314 - Skin corrosion/irritation : Category 1B ; Causes severe skin burns and eye damage.  
Met. Corr. 1 ; H290 - Corrosive to metals : Category 1 ; May be corrosive to metals.

#### Additional information

This mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Results from in vitro test for skin corrosivity/irritancy: Skin Corr. 1B (OECD 435)

#### Remark

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

### 2.2 Label elements

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

##### Hazard pictograms



Corrosion (GHS05) · Environment (GHS09)

#### Signal word

Danger

#### Hazard components for labelling

SODIUM HYPOCHLORITE 6 % ; CAS No. : 7681-52-9  
SODIUM HYDROXIDE ; CAS No. : 1310-73-2

#### Hazard statements

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H400 Very toxic to aquatic life.

#### Precautionary statements

P102 Keep out of reach of children.  
P234 Keep only in original container.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P405 Store locked up.  
**Supplemental Hazard information (EU)**  
EUH031 Contact with acids liberates toxic gas.

### 2.3 Other hazards

#### Adverse human health effects and symptoms

Due to its pH value (see section 9), irritation of the skin and eyes cannot be ruled out.

### 2.4 Additional information

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

SODIUM HYPOCHLORITE ; REACH registration No. : 01-2119488154-34-xxxx ; EC No. : 231-668-3; CAS No. : 7681-52-9

Weight fraction :  $\geq 5 - < 10 \%$

Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Aquatic Acute 1 ; H400

SODIUM CARBONATE ; REACH registration No. : 01-2119485498-19-xxxx ; EC No. : 207-838-8; CAS No. : 497-19-8

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

Classification 1272/2008 [CLP] : Eye Irrit. 2 ; H319

SODIUM HYDROXIDE ; REACH registration No. : 01-2119457892-27-xxxx ; EC No. : 215-185-5; CAS No. : 1310-73-2

Weight fraction :  $\geq 0,5 - < 1 \%$

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

COCO DIMETHYLAMINE OXIDE ; REACH registration No. : 01-2119490061-47-xxxx ; EC No. : 931-292-6; CAS No. : 308062-28-4

Weight fraction :  $< 0,5 \%$

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Aquatic Acute 1 ; H400 Aquatic Chronic 2 ; H411

#### Additional information

All ingredients of this mixture are (pre)registered according to REACH regulation.

Full text of 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. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious place in recovery position and seek medical advice.

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Immediately remove any contaminated clothing, shoes or stockings. Do not wash with: Cleaning agent, acidic Cleaning agent, alkaline Solvents/Thinner

#### 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. Protect uninjured eye.

#### After ingestion

Call a physician immediately. Keep at rest. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.

#### Self-protection of the first aider

First aider: Pay attention to self-protection!

### 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

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No information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Water alcohol resistant foam ABC-powder Carbon dioxide (CO<sub>2</sub>) Water spray

#### Unsuitable extinguishing media

High power water jet Strong water jet

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

#### Hazardous combustion products

Carbon monoxide Carbon dioxide (CO<sub>2</sub>) Hydrogen chloride (HCl) Chlorine (Cl<sub>2</sub>)

### 5.3 Advice for firefighters

Use suitable breathing apparatus.

#### Special protective equipment for firefighters

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

### 5.4 Additional information

Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

## SECTION 6: Accidental release measures

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

Wear personal protection equipment (refer to section 8). Provide adequate ventilation. Remove persons to safety.

### 6.2 Environmental precautions

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

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

#### For cleaning up

Suitable material for taking up: Universal binder

### 6.4 Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

When using do not eat, drink, smoke, sniff.

#### Protective measures

All work processes must always be designed so that the following is excluded: Inhalation of vapours or spray/mists  
Skin contact Eye contact Wear personal protection equipment (refer to section 8). Always close containers tightly after the removal of product. Do not breathe gas/fumes/vapour/spray. Use only in well-ventilated areas. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

#### Measures to prevent fire

The product is not: Flammable Usual measures for fire prevention.

Fire class : -

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

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep/Store only in original container.

#### Hints on joint storage

Storage class (TRGS 510) : 8B

Recommended storage temperature 5 - 20 °C

#### Further information on storage conditions

Keep locked up and out of reach of children. Keep container tightly closed in a cool, well-ventilated place.

### 7.3 Specific end use(s)

#### Recommendation

Observe technical data sheet. Observe instructions for use.

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**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

None

**8.2 Exposure controls**

**Personal protection equipment**

**Eye/face protection**

**Suitable eye protection**

Eye glasses with side protection goggles

**Required properties**

DIN EN 166

**Skin protection**

**Hand protection**

**Suitable gloves type :** Gloves with long cuffs

**Suitable material :** NBR (Nitrile rubber), 0,4mm, >8h; Butyl caoutchouc, 0,5mm, >8h; FKM (fluoro rubber), 0,7mm, >8h;

**Recommended glove articles :** Manufacturer KCL GmbH/Eichenzell-Germany; Ansell/Yarra City-Australia Or comparable articles from other companies.

**Additional hand protection measures :** Check leak tightness/impermeability prior to use.

**Remark :** Breakthrough times and swelling properties of the material must be taken into consideration. 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. 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.

**Body protection**

Protective clothing.

**Suitable protective clothing :** Chemical protection clothing Chemical resistant safety shoes

**Required properties :** alkali-resistant.

**Recommended protective clothing articles :** DIN EN ISO 20345 DIN EN 13034 DIN EN 14605 DIN EN 14404

**Remark :** Barrier creams are not substitutes for body protection.

**Respiratory protection**

Usually no personal respirative protection necessary. Respiratory protection necessary at: insufficient ventilation aerosol or mist formation. high concentrations spray application

**Suitable respiratory protection apparatus**

Combination filtering device (EN 14387) Half-face mask (DIN EN 140) ABEK-P1

**Remark**

Use only respiratory protection equipment with CE-symbol including four digit test number. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

**General health and safety measures**

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Wash contaminated clothing prior to re-use. Wash hands before breaks and after work. Apply skin care products after work.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**Appearance :** liquid

**Colour :** light yellow

**Odour :** Chlorine

**Safety relevant basis data**

**Freezing point :** ( 1013 hPa ) approx. -11 °C

**Initial boiling point and boiling range :** ( 1013 hPa ) approx. 102 °C

**Decomposition temperature :** ( 1013 hPa ) not determined

**Flash point :** not applicable closed cup

**Ignition temperature :** not determined

**Sustaining combustion** No UN Test L2:Sustained combustibility test

**Lower explosion limit :** not determined

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Upper explosion limit :					not determined
Vapour pressure :	( 50 °C )	<	3000	hPa	
Density :	( 20 °C )	approx.	1,1	g/cm <sup>3</sup>	Pyknometer
Solvent separation test :	( 20 °C )	<	3	%	
Water solubility	( 20 °C )			miscible	
pH :		approx.	13		
log P O/W :					not determined
Flow time :	( 23 °C )	<	15	s	ISO cup 4 mm
Odour threshold :					not determined
Vapourisation rate :					not determined
VOC-FR					not applicable

## 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4 Conditions to avoid

No hazardous reaction when handled and stored according to provisions.

### 10.5 Incompatible materials

The product develops hydrogen in an aqueous solution in contact with metals.

### 10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects

##### Acute oral toxicity

Parameter :	LD50 ( SODIUM CARBONATE ; CAS No. : 497-19-8 )
Exposure route :	Oral
Species :	Rat
Effective dose :	2800 mg/kg
Parameter :	LD50 ( SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; CAS No. : 7681-52-9 )
Exposure route :	Oral
Species :	Rat
Effective dose :	> 1100 mg/kg
Method :	OECD 401
Parameter :	LD50 ( COCO DIMETHYLAMINE OXIDE ; CAS No. : 308062-28-4 )
Exposure route :	Oral
Species :	Rat
Effective dose :	> 300 - 2000 mg/kg
Method :	OECD 401

##### Acute dermal toxicity

Parameter :	LD50 ( COCO DIMETHYLAMINE OXIDE ; CAS No. : 308062-28-4 )
Exposure route :	Dermal
Species :	Rat
Effective dose :	> 5000 mg/kg
Method :	OECD 402
Parameter :	LD50 ( SODIUM CARBONATE ; CAS No. : 497-19-8 )
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 2000 mg/kg
Parameter :	LD50 ( SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; CAS No. : 7681-52-9 )
Exposure route :	Dermal

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Species : Rabbit  
Effective dose : > 20000  
Method : OECD 402

**Acute inhalation toxicity**

Parameter : LC50 ( SODIUM CARBONATE ; CAS No. : 497-19-8 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 2,3 mg/l  
Method : OECD 403

Parameter : LC50 ( SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; CAS No. : 7681-52-9 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 10,5 mg/l  
Exposure time : 1 h  
Method : OECD 403

**Specific symptoms in animal studies**

No data available

**Irritant and corrosive effects**

**Assessment/classification**

Causes serious eye damage. Causes severe burns. Results from in vitro test for skin corrosivity/irritancy: Skin Corr. 1B (OECD 435)

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

**Carcinogenicity**

No indication of human carcinogenicity.

**Germ cell mutagenicity**

**In vivo mutagenicity**

**Other information**

No experimental indications of in vivo mutagenicity exist.

**Human toxicological data**

**Other information**

No indications of human germ cell mutagenicity exist.

**Reproductive toxicity**

**Practical experience/human evidence**

No indications of human reproductive toxicity exist.

**Overall Assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity**

**Acute (short-term) fish toxicity**

Parameter : LC50 ( SODIUM HYDROXIDE ; CAS No. : 1310-73-2 )  
Species : Fish  
Effective dose : 125 mg/l  
Exposure time : 96 h

Parameter : LC50 ( SODIUM CARBONATE ; CAS No. : 497-19-8 )  
Species : Fish  
Effective dose : 300 mg/l  
Exposure time : 96 h

Parameter : LC50 ( SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; CAS No. : 7681-52-9 )  
Species : Fish  
Effective dose : 0,06 mg/l  
Exposure time : 96 h

**Chronic (long-term) fish toxicity**

Parameter : NOEC ( SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; CAS No. : 7681-52-9 )  
Species : Fish  
Effective dose : 0,04 mg/l  
Exposure time : 96 h

**Acute (short-term) daphnia toxicity**

Parameter : EC50 ( COCO DIMETHYLAMINE OXIDE ; CAS No. : 308062-28-4 )

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Species : Fish  
Effective dose : > 1 - 10 mg/l  
Exposure time : 96 h  
Parameter : EC50 ( COCO DIMETHYLAMINE OXIDE ; CAS No. : 308062-28-4 )  
Species : Daphnia  
Effective dose : > 1 - 10 mg/l  
Exposure time : 48 h  
Method : OECD 202  
Parameter : EC50 ( SODIUM CARBONATE ; CAS No. : 497-19-8 )  
Species : Daphnia  
Effective dose : 200 - 227 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; CAS No. : 7681-52-9 )  
Species : Daphnia  
Effective dose : 0,141 mg/l  
Exposure time : 48 h

**Acute (short-term) algae toxicity**

Parameter : IC50 ( COCO DIMETHYLAMINE OXIDE ; CAS No. : 308062-28-4 )  
Species : Algae  
Effective dose : > 0,1 - 1 mg/l  
Exposure time : 72 h  
Method : OECD 201

**Chronic (long-term) algae toxicity**

Parameter : NOEC ( SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; CAS No. : 7681-52-9 )  
Species : Algae  
Effective dose : 0,0021 mg/l  
Exposure time : 7 d

**Bacteria toxicity**

Parameter : EC50 ( SODIUM HYDROXIDE ; CAS No. : 1310-73-2 )  
Species : Bacteria toxicity  
Effective dose : 22 mg/l  
Exposure time : 15 min  
Parameter : EC50 ( SODIUM HYPOCHLORITE, SOLUTION CL ACTIVE ; CAS No. : 7681-52-9 )  
Species : Bacteria toxicity  
Effective dose : > 3 mg/l  
Exposure time : 3 h  
Parameter : EC50 ( COCO DIMETHYLAMINE OXIDE ; CAS No. : 308062-28-4 )  
Species : Bacteria toxicity  
Effective dose : 190 mg/l  
Exposure time : 16 h  
Method : DIN 38412 / part 8

**Sediment toxicity**

**Toxicity to soil macroorganisms**

**Acute earthworm toxicity**

**Chronical earthworm toxicity (reproduction)**

**Long-term toxicity of organisms living in the sediment**

**Effects in sewage plants**

Observe local regulations concerning effluent treatment. Before discharge into sewage plants the product normally needs to be neutralised.

**12.2 Persistence and degradability**

No data available

**Abiotic degradation**

**Abiotic degradation in Water**

**Hydrolysis**

**Biodegradation**

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**12.3 Bioaccumulative potential**

No data available

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**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

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

**12.6 Other adverse effects**

No data available

**12.7 Additional ecotoxicological information**

**Additional information**

The product has not been tested.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Dispose according to legislation.

**Product/Packaging disposal**

**Waste codes/waste designations according to EWC/AVV**

**Waste code product**

Waste code (91/689/EEC) : 16 03 03\*

**Waste code packaging**

Waste code packaging: 15 01 10\*

**Waste treatment options**

29/35 - Do not empty into drains; dispose of this material and its container in a safe way. Delivery to an approved waste disposal company.

**Appropriate disposal / Package**

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of.

**13.2 Additional information**

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

**SECTION 14: Transport information**

**14.1 UN number**

UN 1719

**14.2 UN proper shipping name**

**Land transport (ADR/RID)**

CAUSTIC ALKALI LIQUID, N.O.S. ( SODIUM HYPOCHLORITE · SODIUM HYDROXIDE )

**Sea transport (IMDG)**

CAUSTIC ALKALI LIQUID, N.O.S. ( SODIUM HYPOCHLORITE · SODIUM HYDROXIDE )

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

CAUSTIC ALKALI LIQUID, N.O.S. ( SODIUM HYPOCHLORITE · SODIUM HYDROXIDE )

**14.3 Transport hazard class(es)**

**Land transport (ADR/RID)**

**Class(es) :** 8  
**Classification code :** C5  
**Hazard identification number (Kemler No.) :** 80  
**Tunnel restriction code :** E  
**Special provisions :** LQ 11 · E 2  
**Hazard label(s) :** 8 / N

**Sea transport (IMDG)**

**Class(es) :** 8  
**EmS-No. :** F-A / S-B  
**Special provisions :** LQ 11 · E 2 · Segregation Group 18 - Alkalis  
**Hazard label(s) :** 8 / N

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

**Class(es) :** 8  
**Special provisions :** E 2  
**Hazard label(s) :** 8



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**14.4 Packing group**

II

**14.5 Environmental hazards**

Land transport (ADR/RID) : Yes  
Sea transport (IMDG) : Yes (P)  
Air transport (ICAO-TI / IATA-DGR) : Yes

**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**

**EU legislation**

REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (clp)

Directive 2008/98/EC of the European Parliament and of the Council on waste (2000/532/EC)

EN 2:1992 (DIN EN 2:2005-01)

**Other regulations (EU)**

Regulation (EC) No. 648/2004 (Detergents regulation) Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work. (Directive 2000/39/EC, Directive 2006/15/EC, Directive 2009/161/EC)

**National regulations**

Observe in addition any national regulations! TRGS 510

**Water hazard class (WGK)**

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

**Other regulations, restrictions and prohibition regulations**

**VOCV-Regulation (CH)**

Maximum VOC content (Switzerland) : < 3 Wt % according to VOCV

**15.2 Chemical safety assessment**

No information available.

**15.3 Additional information**

**SECTION 16: Other information**

**16.1 Indication of changes**

03. Hazardous ingredients

**16.2 Abbreviations and acronyms**

None

**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]**

No information available.

**16.5 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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

**16.6 Training advice**

None

**16.7 Additional information**

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None

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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.

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