

# Safety Data Sheet

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

**Trade name :** FD 333 forte Quick-acting disinfection  
**Revision date :** 08.05.2023  
**Print date :** 08.05.2023

**Version (Revision) :** 3.0.0 (2.0.0)

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

#### 1.1 Product identifier

FD 333 forte Quick-acting disinfection  
Unique Formula Identifier : N5GG-DX2W-1004-8MS2

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

##### Relevant identified uses

FD 333 forte is an aldehyde-free, ready-to-use solution for the rapid disinfection of alcohol-resistant surfaces of medical devices.

##### Products Category [PC]

PC 0 - Other  
Disinfectants

##### Uses advised against

None, if handled according to order.

##### Remark

The product is intended for professional use.

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

##### Supplier

orochemie GmbH + Co. KG

**Street :** Max-Planck-Straße 27

**Postal code/City :** 70806 Kornwestheim

**Telephone :** +49 7154 1308-0

**Telefax :** +49 7154 1308-40

**Information contact :** DÜRR DENTAL SE, Höpfigheimer Str. 17, 74321 Bietigheim-Bissingen, Germany  
Tel: +49 7142 705-0, Fax: +49 7142 705-500, info@duerrdental.com  
in Great Britain/Ireland:  
DÜRR DENTAL [Products] UK Ltd., 14 Linnell Way - Telford Way Industrial Estate, Kettering Northants NN16 8PS,  
United Kingdom, info@duerruk.com

#### 1.4 Emergency telephone number

INT: +49 6132 84463 (24 h/7 d)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Flam. Liq. 2 ; H225 - Flammable liquids : Category 2 ; Highly flammable liquid and vapour.

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

##### Classification procedure

The classification was carried out according to the calculation method of Regulation No. (EC) 1272/2008 [CLP] as well as in-house investigations.

#### 2.2 Label elements

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

##### Hazard pictograms



Flame (GHS02) · Exclamation mark (GHS07)

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### Signal word

Danger

### Hazard statements

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.

### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 Wear protective gloves and eye/face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P501 Dispose of contents/container to hazardous or special waste collection point.

### 2.3 Other hazards

The mixture contains < 3 % substances with potential endocrine disrupting properties. 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

#### Description

FD 333 forte contains alcohols, quaternary ammonium compounds, fragrances and auxiliary agents in aqueous solution.

#### Hazardous ingredients

ETHANOL ; REACH No. : 01-2119457610-43 ; EC No. : 200-578-6; CAS No. : 64-17-5

Weight fraction :  $\geq 55 - < 60$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319  
Specific Conc. Limits : Eye Irrit. 2 ; H319: C  $\geq 50$  %

1-PROPANOL ; REACH No. : 01-2119486761-29 ; EC No. : 200-746-9; CAS No. : 71-23-8

Weight fraction :  $\geq 10 - < 15$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Dam. 1 ; H318 STOT SE 3 ; H336

PROPAN-2-OL ; REACH No. : 01-2119457558-25 ; EC No. : 200-661-7; CAS No. : 67-63-0

Weight fraction :  $\geq 1 - < 5$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

FORMIC ACID ; REACH No. : 01-2119491174-37 ; EC No. : 200-579-1; CAS No. : 64-18-6

Weight fraction :  $\geq 1 - < 3$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Met. Corr. 1 ; H290 Acute Tox. 3 ; H331 Skin Corr. 1A ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 EUH071  
Specific Conc. Limits : Skin Corr. 1A ; H314: C  $\geq 90$  % • Eye Dam. 1 ; H318: C  $\geq 10$  % • Skin Corr. 1B ; H314: C  $\geq 10$  % • Skin Corr. 1C ; H314: C  $\geq 10$  % • Eye Irrit. 2 ; H319: C  $\geq 2$  % • Skin Irrit. 2 ; H315: C  $\geq 2$  %

DIDECYLDIMETHYLAMMONIUM CHLORIDE ; REACH No. : 01-2119945987-15 ; EC No. : 230-525-2; CAS No. : 7173-51-5

Weight fraction :  $< 0,06$  %  
Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Aquatic Acute 1 ; H400 Aquatic Chronic 2 ; H411  
Specific Conc. Limits : (M Acute=10)

#### Additional information

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

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When in doubt or if symptoms are observed, get medical advice.

### Following inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

### In case of skin contact

Wash with plenty of water. When in doubt or if symptoms are observed, get medical advice.

### 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

If swallowed, immediately drink: Water Never give anything by mouth to an unconscious person or a person with cramps. Do NOT induce vomiting. Call a physician immediately.

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

Causes serious eye irritation.

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

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>) Extinguishing powder Water spray jet Water mist

#### Unsuitable extinguishing media

Full water jet

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

None known.

#### Hazardous combustion products

Vapours can form explosive mixtures with air.

### 5.3 Advice for firefighters

Cool endangered containers with water in case of fire.

#### Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus.

## SECTION 6: Accidental release measures

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

Use personal protection equipment. Remove all sources of ignition. When using do not smoke. See protective measures under point 7 and 8.

#### For non-emergency personnel

Use personal protection equipment. See protective measures under point 7 and 8.

#### For emergency responders

##### Personal protection equipment

See protective measures under point 7 and 8.

### 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

#### For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

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### Other information

Treat the recovered material as prescribed in the section on waste disposal.

### 6.4 Reference to other sections

None

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Keep/Store only in original container. Please note safety instructions and directions for use on the drum. Handle and open container with care. Keep away from sources of ignition - No smoking. Provide adequate ventilation. Do not breathe vapour/aerosol.

#### Protective measures

##### Measures to prevent fire

Usual measures for fire prevention. Keep away from sources of ignition - No smoking.

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

#### Requirements for storage rooms and vessels

Keep/Store only in original container. Keep container tightly closed and in a well-ventilated place.

#### Hints on joint storage

Do not store together with oxidizing, self-igniting substances and highly flammable solid substances. Store the foodstuffs separately.

### 7.3 Specific end use(s)

Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

ETHANOL ; CAS No. : 64-17-5

Limit value type (country of origin) : TLV/TWA ( GB )

Limit value : 1000 ppm / 1920 mg/m<sup>3</sup>

1-PROPANOL ; CAS No. : 71-23-8

Limit value type (country of origin) : TLV/STEL ( GB )

Limit value : 250 ppm / 625 mg/m<sup>3</sup>

Limit value type (country of origin) : TLV/TWA ( GB )

Limit value : 200 ppm / 500 mg/m<sup>3</sup>

PROPAN-2-OL ; CAS No. : 67-63-0

Limit value type (country of origin) : TLV/STEL ( GB )

Limit value : 500 ppm / 1250 mg/m<sup>3</sup>

Limit value type (country of origin) : TLV/TWA ( GB )

Limit value : 400 ppm / 999 mg/m<sup>3</sup>

FORMIC ACID ; CAS No. : 64-18-6

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

Limit value : 5 ppm / 9 mg/m<sup>3</sup>

Version : 20.06.2019

Limit value type (country of origin) : TLV/TWA ( GB )

Limit value : 5 ppm / 9,6 mg/m<sup>3</sup>

#### DNEL-/PNEC-values

There are no data available on the preparation itself.

##### DNEL/DMEL

ETHANOL ; CAS No. : 64-17-5

Limit value type : DNEL Consumer (local)

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Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 950 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 87 mg/kg  
Assessment factor : 24 h  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 206 mg/kg  
Assessment factor : 24 h  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 114 mg/m<sup>3</sup>  
Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 1900 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 343 mg/kg  
Assessment factor : 24 h  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 950 mg/m<sup>3</sup>  
1-PROPANOL ; CAS No. : 71-23-8  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 1036 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 81 mg/kg  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 80 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 61 mg/kg  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 1723 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 136 mg/kg

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Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 268 mg/m<sup>3</sup>

PROPAN-2-OL ; CAS No. : 67-63-0  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 319 mg/kg  
Assessment factor : 24 h

Limit value type : DNEL Consumer (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 89 mg/m<sup>3</sup>

Limit value type : DNEL Consumer (systemic)  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 26 mg/kg  
Assessment factor : 24 h

Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 888 mg/kg  
Assessment factor : 24 h

Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 500 mg/m<sup>3</sup>

FORMIC ACID ; CAS No. : 64-18-6  
Limit value type : DNEL Consumer (local and systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 3 mg/m<sup>3</sup>

Limit value type : DNEL Consumer (local and systemic)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 9,5 mg/m<sup>3</sup>

Limit value type : DNEL worker (local and systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 9,5 mg/m<sup>3</sup>

Limit value type : DNEL worker (local and systemic)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 19 mg/m<sup>3</sup>

DIDECYLDIMETHYLAMMONIUM CHLORIDE ; CAS No. : 7173-51-5  
Limit value type : DNEL worker (systemic)  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 18,2 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 8,6 mg/kg  
Assessment factor : 24 h

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Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 5,39 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 5,39 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 1,55 mg/kg  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Short-term  
Limit value : 1,55 mg/kg

### PNEC

ETHANOL ; CAS No. : 64-17-5

Limit value type : PNEC (Aquatic, freshwater)  
Limit value : 0,96 mg/l  
Limit value type : PNEC (Aquatic, marine water)  
Limit value : 0,79 mg/l  
Limit value type : PNEC (Industrial)  
Exposure route : Soil  
Limit value : 0,63 mg/kg  
Limit value type : PNEC (Sediment, freshwater)  
Limit value : 3,6 mg/kg  
Limit value type : PNEC (Sediment, marine water)  
Limit value : 2,9 mg/kg  
Limit value type : PNEC (Secondary poisoning)  
Limit value : 729 mg/kg  
Limit value type : PNEC (Sewage treatment plant)  
Limit value : 580 mg/l

1-PROPANOL ; CAS No. : 71-23-8

Limit value type : PNEC (Aquatic, freshwater)  
Limit value : 10 mg/l  
Limit value type : PNEC (Aquatic, freshwater)  
Limit value : 6,83 mg/l  
Limit value type : PNEC (Aquatic, marine water)  
Limit value : 1 mg/l  
Limit value type : PNEC (Aquatic, marine water)  
Limit value : 0,683 mg/l  
Limit value type : PNEC (Industrial)  
Exposure route : Soil  
Limit value : 2,2 mg/kg  
Limit value type : PNEC (Sediment, freshwater)  
Limit value : 22,8 mg/kg  
Limit value type : PNEC (Sediment, freshwater)  
Limit value : 27,5 mg/kg  
Limit value type : PNEC (Sediment, marine water)  
Limit value : 2,28 mg/kg  
Limit value type : PNEC (Sediment, marine water)  
Limit value : 2,75 mg/kg  
Limit value type : PNEC (Soil)  
Limit value : 1,49 mg/kg

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Limit value type : PNEC (Sewage treatment plant)  
Exposure route : Water (Including sewage plant)  
Limit value : 96 mg/l

PROPAN-2-OL ; CAS No. : 67-63-0  
Limit value type : PNEC (Aquatic, freshwater)  
Limit value : 140,9 mg/l  
Limit value type : PNEC (Aquatic, marine water)  
Limit value : 140,9 mg/l  
Limit value type : PNEC (Industrial)  
Exposure route : Soil  
Limit value : 28 mg/kg  
Limit value type : PNEC (Sediment, freshwater)  
Limit value : 552 mg/kg  
Limit value type : PNEC (Sediment, marine water)  
Limit value : 552 mg/kg  
Limit value type : PNEC (Secondary poisoning)  
Limit value : 160 mg/kg  
Limit value type : PNEC (Sewage treatment plant)  
Limit value : 2251 mg/l

FORMIC ACID ; CAS No. : 64-18-6  
Limit value type : PNEC (Aquatic, freshwater)  
Limit value : 2 mg/l  
Limit value type : PNEC (Aquatic, marine water)  
Limit value : 0,2 mg/l  
Limit value type : PNEC (Industrial)  
Exposure route : Soil  
Limit value : 1,5 mg/kg  
Limit value type : PNEC (Sediment, freshwater)  
Limit value : 13,4 mg/kg  
Limit value type : PNEC (Sediment, marine water)  
Limit value : 1,34 mg/kg  
Limit value type : PNEC (Sewage treatment plant)  
Exposure route : Water (Including sewage plant)  
Limit value : 7,2 mg/l

DIDECYLDIMETHYLAMMONIUM CHLORIDE ; CAS No. : 7173-51-5  
Limit value type : PNEC (Aquatic, freshwater)  
Limit value : 0,002 mg/l  
Limit value type : PNEC (Aquatic, marine water)  
Limit value : 0,0002 mg/l  
Limit value type : PNEC (Industrial)  
Exposure route : Soil  
Limit value : 1,4 mg/kg  
Limit value type : PNEC (Sediment, freshwater)  
Limit value : 2,82 mg/kg  
Limit value type : PNEC (Sediment, marine water)  
Limit value : 0,282 mg/kg  
Limit value type : PNEC (Sewage treatment plant)  
Limit value : 0,595 mg/l

### 8.2 Exposure controls

#### Personal protection equipment

##### Eye/face protection

Eye glasses with side protection EN 166

##### Skin protection

##### Hand protection



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Short-term exposure (Level 2: < 30 min): disposable gloves to EN374 category III, e.g. nitrile rubber, material thickness 0.1 mm.

Long-term exposure (Level 6: < 480 min): protective gloves to EN374 category III, e.g. nitrile rubber, material thickness 0.7 mm.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

### Body protection

Body protection: not required.

### Respiratory protection

Usually no personal respiratory protection necessary.

### General information

Keep away from food, drink and animal feedingstuffs. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing. Wash hands before breaks and after work. Separate storage of work clothes. When using do not eat, drink, smoke, sniff.

### Other protection measures

Provide adequate ventilation.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Colour :** colourless

**Odour :** Lemon

### Safety characteristics

<b>Physical state :</b>				Liquid
<b>Melting point/freezing point :</b>	( 1013 hPa )			not determined
<b>Initial boiling point and boiling range :</b>	( 1013 hPa )		71,5 - 77,5	°C
<b>Decomposition temperature :</b>	( 1013 hPa )			not determined
<b>Flash point :</b>			16,5	°C
<b>Auto-ignition temperature :</b>			400	°C
<b>Lower explosion limit :</b>			2,1	Vol-%
<b>Upper explosion limit :</b>			15	Vol-%
<b>Vapour pressure :</b>	( 50 °C )			not determined
<b>Density :</b>	( 20 °C )	approx.	0,87	g/cm <sup>3</sup>
<b>Solvent separation test :</b>	( 20 °C )	<	3	%
<b>Water solubility :</b>	( 20 °C )		100	Weight-%
<b>pH :</b>			2,5 - 3,5	
<b>log P O/W :</b>				not determined
<b>Flow time :</b>	( 20 °C )	<	20	s
<b>Odour threshold :</b>				not determined
<b>Maximum VOC content (EC) :</b>			71,3	Weight-%
<b>Oxidising liquids :</b>		Not applicable.		
<b>Explosive properties :</b>		Not applicable.		
<b>Corrosive to metals :</b>		Not corrosive to metals.		

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None, if handled according to order.

### 10.2 Chemical stability

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

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## 10.3 Possibility of hazardous reactions

Vapours can form explosive mixtures with air.

## 10.4 Conditions to avoid

No information available.

## 10.5 Incompatible materials

Oxidizing agent.

## 10.6 Hazardous decomposition products

None known.

## 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.

#### Acute oral toxicity

Parameter :	LD50
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
Method :	OECD 420
Parameter :	ATEmix
Exposure route :	Oral
Effective dose :	56288 mg/kg
Parameter :	ATE ( FORMIC ACID ; CAS No. : 64-18-6 )
Exposure route :	Oral
Effective dose :	1570 mg/kg
Parameter :	ATE ( DIDECYLDIMETHYLAMMONIUM CHLORIDE ; CAS No. : 7173-51-5 )
Exposure route :	Oral
Effective dose :	500 mg/kg

#### Practical experience/human evidence

Eye contact: irritation. The product does not have any skin irritating or sensitizing properties. There is no inhalation risk under normal application conditions.

#### Acute dermal toxicity

Parameter :	LD50
Exposure route :	Dermal
Species :	Rat
Effective dose :	> 2000 mg/kg
Method :	OECD 402
Parameter :	ATEmix
Exposure route :	Dermal
Effective dose :	not relevant

#### Acute inhalation toxicity

Parameter :	ATEmix
Exposure route :	Inhalation (vapour)
Effective dose :	281,4 mg/l
Parameter :	LC50 ( ETHANOL ; CAS No. : 64-17-5 )
Exposure route :	Inhalation
Species :	Rat
Effective dose :	125 mg/l
Exposure time :	4 h
Method :	OECD 403
Parameter :	LC50 ( 1-PROPANOL ; CAS No. : 71-23-8 )
Exposure route :	Inhalation

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Species : Rat  
Effective dose : > 33,8 mg/l  
Exposure time : 4 h  
Method : OECD 403  
Parameter : LC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Inhalation  
Species : Mouse  
Effective dose : 27,2 mg/l  
Exposure time : 4 h  
Parameter : LC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 25 mg/l  
Exposure time : 6 h  
Method : OECD 403  
Parameter : LC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 72,6 mg/l  
Exposure time : 4 h  
Parameter : LC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Inhalation (vapour)  
Species : Rat  
Effective dose : > 10000 ppm  
Exposure time : 6 h  
Parameter : LD50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Inhalation (vapour)  
Species : Rat  
Effective dose : 47,5 mg/l  
Parameter : LC50 ( FORMIC ACID ; CAS No. : 64-18-6 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 7,4 mg/l  
Exposure time : 4 h

### Corrosion

In vitro skin test : Not an irritant. Method : OECD 439. In vitro eye test irritant. Method : OECD 437.

#### 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. Mouse: non-sensitizing. Method : OECD 429.

### Repeated dose toxicity (subacute, subchronic, chronic)

#### Subacute oral toxicity

Parameter : NOAEL(C) ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 1730 mg/kg  
Exposure time : 24 h  
Method : OECD 408

#### Subacute inhalation toxicity

Parameter : NOAEL(C) ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Inhalation  
Species : Rat

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Effective dose : > 20 mg/l

### 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 properties

The mixture contains < 3 % substances with potential endocrine disrupting properties.

### Additional information

The classification was carried out according to the calculation method of Regulation No. (EC) 1272/2008 [CLP] as well as in-house investigations.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

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

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

Parameter :	LC50 ( ETHANOL ; CAS No. : 64-17-5 )
Species :	Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	11200 mg/l
Parameter :	LC50 ( ETHANOL ; CAS No. : 64-17-5 )
Species :	Pimephales promelas (fathead minnow)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	> 15000 mg/l
Exposure time :	96 h
Parameter :	LC50 ( 1-PROPANOL ; CAS No. : 71-23-8 )
Species :	Pimephales promelas (fathead minnow)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	4480 mg/l
Exposure time :	96 h
Parameter :	LC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Species :	Pimephales promelas (fathead minnow)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	9640 mg/l
Exposure time :	96 h
Parameter :	LC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Species :	Leuciscus idus (golden orfe)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	> 100 mg/l
Exposure time :	48 h
Parameter :	LC50 ( FORMIC ACID ; CAS No. : 64-18-6 )

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Species : Leuciscus idus (golden orfe)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 46 - 100 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( FORMIC ACID ; CAS No. : 64-18-6 )  
Species : Danio rerio (zebrafish)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 130 mg/l  
Exposure time : 96 h  
Method : OECD 203  
Parameter : LC50 ( DIDECYLDIMETHYLAMMONIUM CHLORIDE ; CAS No. : 7173-51-5 )  
Species : Pimephales promelas (fathead minnow)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 0,19 mg/l  
Exposure time : 96 h  
Method : OECD 203  
Parameter : LC50 ( DIDECYLDIMETHYLAMMONIUM CHLORIDE ; CAS No. : 7173-51-5 )  
Species : Danio rerio (zebrafish)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : > 0,1 - 1 mg/l  
Exposure time : 96 h  
Method : OECD 203

### Chronic (long-term) fish toxicity

Parameter : NOEC ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Ceriodaphnia spec  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 9,6 mg/l  
Parameter : NOEC ( DIDECYLDIMETHYLAMMONIUM CHLORIDE ; CAS No. : 7173-51-5 )  
Species : Danio rerio (zebrafish)  
Evaluation parameter : Chronic (long-term) fish toxicity  
Effective dose : 0,032 mg/l  
Exposure time : 816 h  
Method : OECD 210

### Acute (short-term) toxicity to crustacea

Parameter : EC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 9200 - 14300 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Ceriodaphnia spec  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 1806 mg/l  
Parameter : EC50 ( 1-PROPANOL ; CAS No. : 71-23-8 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 3644 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 13299 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity

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Effective dose : 9714 mg/l  
Exposure time : 24 h  
Parameter : EC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : > 100 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( FORMIC ACID ; CAS No. : 64-18-6 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 32 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( FORMIC ACID ; CAS No. : 64-18-6 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : 365 mg/l  
Exposure time : 48 h  
Method : OECD 202  
Parameter : EC50 ( DIDECYLDIMETHYLAMMONIUM CHLORIDE ; CAS No. : 7173-51-5 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 0,062 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( DIDECYLDIMETHYLAMMONIUM CHLORIDE ; CAS No. : 7173-51-5 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : > 0,01 - 0,1 mg/l  
Exposure time : 48 h  
Method : OECD 202

### Chronic (long-term) toxicity to aquatic invertebrate

Parameter : NOEC ( 1-PROPANOL ; CAS No. : 71-23-8 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : > 100 mg/l  
Exposure time : 504 h  
Method : OECD 211  
Parameter : NOEC ( FORMIC ACID ; CAS No. : 64-18-6 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : => 100 mg/l  
Exposure time : 504 h  
Method : OECD 211  
Parameter : NOEC ( DIDECYLDIMETHYLAMMONIUM CHLORIDE ; CAS No. : 7173-51-5 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : 0,014 mg/l  
Exposure time : 504 h  
Method : OECD 211  
Parameter : NOEC ( DIDECYLDIMETHYLAMMONIUM CHLORIDE ; CAS No. : 7173-51-5 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : > 0,01 - 0,1 mg/l  
Method : OECD 211

### Acute (short-term) toxicity to algae and cyanobacteria

Parameter : EC50 ( ETHANOL ; CAS No. : 64-17-5 )

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Species : *Chlorella vulgaris*  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 275 mg/l  
Parameter : EC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Species : *Selenastrum capricornutum*  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 440 mg/l  
Parameter : IC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Species : *Scenedesmus subspicatus*  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 100 mg/l  
Parameter : ErC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Species : *Pseudokirchneriella subcapitata*  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 4800 mg/l  
Exposure time : 72 h  
Method : OECD 201  
Parameter : EC50 ( 1-PROPANOL ; CAS No. : 71-23-8 )  
Species : *Scenedesmus subspicatus*  
Evaluation parameter : Inhibition of growth rate  
Effective dose : 3100 mg/l  
Exposure time : 168 h  
Parameter : EC50 ( 1-PROPANOL ; CAS No. : 71-23-8 )  
Species : *Pseudokirchneriella subcapitata*  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 9170 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : *Pseudokirchneriella subcapitata*  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 1000 mg/l  
Exposure time : 72 h  
Parameter : EC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : *Scenedesmus subspicatus*  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 100 mg/l  
Exposure time : 72 h  
Parameter : EC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Algae  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 1800 mg/l  
Exposure time : 168 h  
Parameter : EC50 ( FORMIC ACID ; CAS No. : 64-18-6 )  
Species : Algae  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 72 mg/l  
Exposure time : 72 h  
Parameter : EC50 ( FORMIC ACID ; CAS No. : 64-18-6 )  
Species : *Scenedesmus subspicatus*  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 36,9 mg/l  
Parameter : EC50 ( FORMIC ACID ; CAS No. : 64-18-6 )  
Species : *Scenedesmus subspicatus*  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 26,9 mg/l

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Exposure time : 72 h  
Parameter : EC50 ( FORMIC ACID ; CAS No. : 64-18-6 )  
Species : Selenastrum capricornutum  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 1240 mg/l  
Exposure time : 72 h  
Method : OECD 201  
Parameter : EC50 ( DIDECYLDIMETHYLAMMONIUM CHLORIDE ; CAS No. : 7173-51-5 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 0,01 - 0,1 mg/l  
Method : OECD 201  
Parameter : ErC50 ( DIDECYLDIMETHYLAMMONIUM CHLORIDE ; CAS No. : 7173-51-5 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Inhibition of growth rate  
Effective dose : 0,026 mg/l  
Exposure time : 96 h  
Method : OECD 201

### Chronic (long-term) toxicity to aquatic algae and cyanobacteria

Parameter : NOEC ( 1-PROPANOL ; CAS No. : 71-23-8 )  
Species : Algae  
Evaluation parameter : Chronic (long-term) algae toxicity  
Effective dose : 1150 mg/l  
Exposure time : 48 h  
Parameter : NOEC ( DIDECYLDIMETHYLAMMONIUM CHLORIDE ; CAS No. : 7173-51-5 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Chronic (long-term) algae toxicity  
Effective dose : > 0,01 - 0,1 mg/l  
Exposure time : 72 h  
Method : OECD 201

### Toxicity to microorganisms

Parameter : EC50 ( 1-PROPANOL ; CAS No. : 71-23-8 )  
Species : Pseudomonas putida  
Evaluation parameter : Bacteria toxicity  
Effective dose : 2700 mg/l  
Exposure time : 16 h  
Parameter : EC50 ( 1-PROPANOL ; CAS No. : 71-23-8 )  
Evaluation parameter : Bacteria toxicity  
Effective dose : > 1000 mg/l  
Exposure time : 3 h  
Method : OECD 209  
Parameter : EC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Evaluation parameter : Bacteria toxicity  
Effective dose : > 100 mg/l  
Parameter : EC10 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Pseudomonas putida  
Evaluation parameter : Bacteria toxicity  
Effective dose : 5175 mg/l  
Exposure time : 18 h  
Parameter : EC50 ( FORMIC ACID ; CAS No. : 64-18-6 )  
Species : Pseudomonas putida  
Evaluation parameter : Bacteria toxicity  
Effective dose : 46,7 mg/l  
Exposure time : 17 h  
Parameter : EC10 ( FORMIC ACID ; CAS No. : 64-18-6 )



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Evaluation parameter : Bacteria toxicity  
Effective dose : 72 mg/l  
Exposure time : 312 h  
Parameter : EC50 ( DIDECYLDIMETHYLAMMONIUM CHLORIDE ; CAS No. : 7173-51-5 )  
Evaluation parameter : Bacteria toxicity  
Effective dose : 11 mg/l  
Exposure time : 3 h  
Method : OECD 209

### Sewage treatment plant

Parameter : EC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Inoculum : Effects in sewage plants  
Effective dose : 5800 mg/l  
Exposure time : 4 h

## 12.2 Persistence and degradability

### Abiotic degradation

No data available.

### Biodegradation

Parameter : Biodegradation ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Inoculum : Degree of elimination  
Evaluation parameter : Aerobic  
Degradation rate : > 95 %  
Method : OECD 301E

The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. The product is easily biodegradable according to OECD criteria. Method : OECD 301 D.

## 12.3 Bioaccumulative potential

No information available.

## 12.4 Mobility in soil

### Distribution

There are no data available on the preparation itself.

## 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 Endocrine disrupting properties

The mixture contains < 3 % substances with potential endocrine disrupting properties.

## 12.7 Other adverse effects

No information available.

## 12.8 Additional ecotoxicological information

Prevent from flowing into surface water/ground water.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Directive 2008/98/EC (Waste Framework Directive)

##### After intended use

##### Disposal operations

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

##### Recovery operations

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

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

Concentrate/larger quantities: 18 01 06\* (disinfectant).

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### SECTION 14: Transport information

#### 14.1 UN number

UN 1987

#### 14.2 UN proper shipping name

##### Land transport (ADR/RID)

ALCOHOLS, N.O.S. ( ETHANOL · 1-PROPANOL )

##### Sea transport (IMDG)

ALCOHOLS, N.O.S. ( ETHANOL · N-PROPANOL )

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

ALCOHOLS, N.O.S. ( ETHANOL · 1-PROPANOL )

#### 14.3 Transport hazard class(es)

##### Land transport (ADR/RID)

Class(es) : 3  
Classification code : F1  
Hazard identification number (Kemler No.) : 33  
Tunnel restriction code : D/E  
Special Provisions : LQ 1 | · E 2  
Hazard label(s) : 3

##### Sea transport (IMDG)

Class(es) : 3  
EmS-No. : F-E / S-D  
Special Provisions : LQ 1 | · E 2  
Hazard label(s) : 3

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

Class(es) : 3  
Special Provisions : E 2  
Hazard label(s) : 3

#### 14.4 Packing group

II

#### 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

not applicable

### 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, 40, 75

##### National regulations

###### Restrictions of occupation

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According to directive 94/33/EC, juveniles are only allowed to handle this product as long as all effects of dangerous substances are prevented.

### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### 16.1 Indication of changes

03. Hazardous ingredients · 15. Restrictions on use

### 16.2 Abbreviations and acronyms

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimates  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
CMR = Carcinogen, Mutagen or Reproductive toxicant  
CO<sub>2</sub> = Carbon dioxide  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EC = European Commission  
EC50 = Half maximal effective concentration  
EN = European Standard (Norm)  
EU = European Union  
EUH statement = CLP-specific Hazard statement  
EWC = European Waste Catalogue  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
H statement = GHS Hazard statement  
IATA = International Air Transport Association ICAO-TI = International Civil Aviation Organization-Technical Instructions  
IMDG = International Maritime Dangerous Goods  
LC50 = Median lethal concentration  
LD50 = Median lethal dose  
LogPow = Logarithm of the octanol/water partition coefficient  
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
NOEC/NOEL = No observed effect concentration/level  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RMM = Risk Management Measure  
RRN = REACH Registration Number  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
SVHC = Substances of Very High Concern  
TLV/STEL = Threshold limit value/short-term exposure limit  
TLV/TWA = Threshold limit value/time weighted average  
UN = United Nations  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

### 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 classification was carried out according to the calculation method of Regulation No. (EC) 1272/2008 [CLP] as well as in-house investigations.

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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

### 16.6 Training advice

None

### 16.7 Additional information

Follow the instructions for use on the label.

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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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