

# Safety Data Sheet

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

**Trade name :** ID 215 Enzymatic Instrument Cleaner  
**Revision :** 02.01.2018  
**Print date :** 02.01.2018

**Version :** 1.0.1 (1.0.0)

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

#### 1.1 Product identifier

ID 215 Enzymatic Instrument Cleaner

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

##### Relevant identified uses

ID 215 is a concentrate for manual, enzymatic cleaning of general and surgical instruments.

##### Product Categories [PC]

PC35 - Washing and cleaning products (including solvent based products)

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

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

Tel: +44 1536 526740, Fax.: +44 1536 526749, 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]

Aquatic Acute 1 ; H400 - Hazardous to the aquatic environment : Acute 1 ; Very toxic to aquatic life.

Aquatic Chronic 2 ; H411 - Hazardous to the aquatic environment : Chronic 2 ; Toxic to aquatic life with long lasting effects.

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

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.

STOT RE 2 ; H373 - STOT-repeated exposure : Category 2 ; May cause damage to organs through prolonged or repeated exposure.

##### Classification procedure

The classification was carried out according to the calculation method of Regulation No. (EC) 1272/2008 [CLP].

#### 2.2 Label elements

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

Hazard pictograms

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Health hazard (GHS08) · Corrosion (GHS05) · Environment (GHS09) · Exclamation mark (GHS07)

### Signal word

Danger

### Hazard components for labelling

2,2` -OXYBISETHANOL ; CAS No. : 111-46-6  
ISOTRIDECANOL ETHOXYLATE ; CAS No. : 69011-36-5  
DIDECYLDIMETHYLAMMONIUM CHLORIDE ; CAS No. : 7173-51-5

### Hazard statements

H373 May cause damage to organs through prolonged or repeated exposure.  
H314 Causes severe skin burns and eye damage.  
H302 Harmful if swallowed.  
H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.

### Precautionary statements

P273 Avoid release to the environment.  
P280 Wear protective gloves and eye/face protection.  
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P501 Dispose of contents/container to hazardous or special waste collection point.

### Special rules for supplemental label elements for certain mixtures

EUH208 Contains POLY(HEXAMETHYLENE BIGUANIDE)HYDROCHLORIDE. May produce an allergic reaction.

## 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Description

ID 215 contains quaternary ammonium compounds, guanidines, non-ionic surfactants, diethylene glycol, enzymes and excipients in aqueous solution.

#### Hazardous ingredients

2,2` -OXYBISETHANOL ; REACH registration No. : 01-2119457857-21 ; EC No. : 203-872-2; CAS No. : 111-46-6

Weight fraction :  $\geq 30 - < 35$  %  
Classification 1272/2008 [CLP] : STOT RE 2 ; H373 Acute Tox. 4 ; H302

ISOTRIDECANOL ETHOXYLATE ; REACH registration No. : 02-2119552461-55 ; EC No. : 931-138-8; CAS No. : 69011-36-5

Weight fraction :  $\geq 10 - < 15$  %  
Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302

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

Weight fraction :  $\geq 5 - < 10$  %  
Classification 1272/2008 [CLP] : Acute Tox. 3 ; H301 Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

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

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Weight fraction :  $\geq 1 - < 5 \%$   
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336  
POLY(HEXAMETHYLENE BIGUANIDE)HYDROCHLORIDE ; REACH registration No. : - ; CAS No. : 1802181-67-4  
Weight fraction :  $\geq 0,1 - < 0,5 \%$   
Classification 1272/2008 [CLP] : Acute Tox. 2 ; H330 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Sens. 1B ; H317  
STOT SE 3 ; H335 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

### Additional information

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.

#### Following inhalation

No special measures are necessary.

#### 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.

#### After ingestion

No special measures are necessary. Never give anything by mouth to an unconscious person or a person with cramps.

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

Causes severe skin burns and eye damage. Harmful.

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

#### Unsuitable extinguishing media

High power water jet

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

None known.

#### Hazardous combustion products

None known.

### 5.3 Advice for firefighters

Adapt protective equipment to surrounding fire.

#### Special protective equipment for firefighters

Adapt protective equipment to surrounding fire.

## 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.

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### 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

No special measures are necessary.

### 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.

#### Protective measures

##### Measures to prevent fire

Usual measures for fire prevention. When using do not smoke.

### 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. Keep in a cool, well-ventilated place. Do not store in temperatures below 5 °C.

#### Hints on joint storage

Store the foodstuffs separately.

### 7.3 Specific end use(s)

None

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

2,2'-OXYBISETHANOL ; CAS No. : 111-46-6

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

Limit value : 23 ppm / 101 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>

#### DNEL/DMEL and PNEC values

There are no data available on the preparation itself.

##### DNEL/DMEL

Limit value type : DNEL Consumer (local) ( 2,2'-OXYBISETHANOL ; CAS No. : 111-46-6 )

Exposure route : Inhalation

Exposure frequency : Long-term (repeated)

Limit value : 12 mg/m<sup>3</sup>

Limit value type : DNEL Consumer (local) ( 2,2'-OXYBISETHANOL ; CAS No. : 111-46-6 )

Exposure route : Inhalation

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Exposure frequency : Short-term (acute)  
Limit value : 12 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic) ( 2,2` -OXYBISETHANOL ; CAS No. : 111-46-6 )  
Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 53 mg/kg  
Limit value type : DNEL worker (local) ( 2,2` -OXYBISETHANOL ; CAS No. : 111-46-6 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 60 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( 2,2` -OXYBISETHANOL ; CAS No. : 111-46-6 )  
Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 106 mg/kg  
Limit value type : DNEL worker (systemic) ( 2,2` -OXYBISETHANOL ; CAS No. : 111-46-6 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 60 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic) ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 319 mg/kg  
Safety factor : 24 h  
Limit value type : DNEL Consumer (systemic) ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 89 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic) ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Oral  
Exposure frequency : Long-term (repeated)  
Limit value : 26 mg/kg  
Safety factor : 24 h  
Limit value type : DNEL worker (systemic) ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 888 mg/kg  
Safety factor : 24 h  
Limit value type : DNEL worker (systemic) ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 500 mg/m<sup>3</sup>

**PNEC**  
Limit value type : PNEC aquatic, freshwater ( 2,2` -OXYBISETHANOL ; CAS No. : 111-46-6 )  
Limit value : 10 mg/l  
Limit value type : PNEC aquatic, marine water ( 2,2` -OXYBISETHANOL ; CAS No. : 111-46-6 )  
Limit value : 1 mg/l  
Limit value type : PNEC (Industrial) ( 2,2` -OXYBISETHANOL ; CAS No. : 111-46-6 )  
Exposure route : Soil  
Limit value : 1,53 mg/kg  
Limit value type : PNEC sediment, freshwater ( 2,2` -OXYBISETHANOL ; CAS No. : 111-46-6 )  
Limit value : 20,9 mg/kg  
Limit value type : PNEC sediment, marine water ( 2,2` -OXYBISETHANOL ; CAS No. : 111-46-6 )  
Limit value : 2,09 mg/kg  
Limit value type : PNEC sewage treatment plant (STP) ( 2,2` -OXYBISETHANOL ; CAS No. : 111-46-6 )  
Limit value : 199,5 mg/l

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

### 8.2 Exposure controls

#### Personal protection equipment

##### Eye/face protection

Eye glasses with side protection DIN EN 166

##### Skin protection

###### Hand protection

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

No special measures are necessary.

#### General health and safety measures

Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and after work. Separate storage of work clothes. When using do not eat, drink, smoke, sniff.

#### Occupational exposure controls

##### Technical measures to prevent exposure

Provide adequate ventilation.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance :** liquid

**Colour :** blue

**Odour :** characteristic

#### Safety relevant basis data

**Melting point/melting range :** ( 1013 hPa ) not determined

**Initial boiling point and boiling range :** ( 1013 hPa ) approx. 100 °C

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

**Flash point :** not applicable

**Ignition temperature :** not applicable

**Lower explosion limit :** not applicable

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<b>Upper explosion limit :</b>					not applicable
<b>Vapour pressure :</b>	( 50 °C )				not determined
<b>Density :</b>	( 20 °C )			1 - 1,1	g/cm <sup>3</sup>
<b>Solvent separation test :</b>	( 20 °C )	<		3	%
<b>Water solubility :</b>	( 20 °C )			100	Wt %
<b>pH :</b>				5 - 7	
<b>pH :</b>	( 20 °C / 20 g/l )			6,5 - 8,5	
<b>log P O/W :</b>				not determined	
<b>Flow time :</b>	( 20 °C )	<		20	s
<b>Odour threshold :</b>				not determined	DIN-cup 4 mm
<b>Maximum VOC content (EC) :</b>				33,6	Wt %
<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).

### 10.3 Possibility of hazardous reactions

None, if handled according to order.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

No information available.

### 10.6 Hazardous decomposition products

None known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects

##### Acute oral toxicity

Parameter :	ATEmix calculated
Exposure route :	Oral
Effective dose :	822 mg/kg
Parameter :	LD50 ( 2,2` -OXYBISETHANOL ; CAS No. : 111-46-6 )
Exposure route :	Oral
Species :	Practical experience/human evidence
Effective dose :	1120 mg/kg
Parameter :	LD50 ( 2,2` -OXYBISETHANOL ; CAS No. : 111-46-6 )
Exposure route :	Oral
Species :	Rat
Effective dose :	12565 mg/kg
Parameter :	LD50 ( 2,2` -OXYBISETHANOL ; CAS No. : 111-46-6 )
Exposure route :	Oral
Species :	Rabbit
Effective dose :	4400 mg/kg
Parameter :	LD50 ( ISOTRIDEKANOL ETHOXYLATE ; CAS No. : 69011-36-5 )

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Exposure route : Oral  
Species : Rat  
Effective dose : 300 - 2000 mg/kg  
Parameter : LD50 ( DIDECYLDIMETHYLAMMONIUM CHLORIDE ; CAS No. : 7173-51-5 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 238 mg/kg  
Method : OECD 401  
Parameter : LD50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 5280 mg/kg  
Parameter : LD50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 5840 mg/kg  
Method : OECD 401  
Parameter : LD50 ( POLY(HEXAMETHYLENE BIGUANIDE)HYDROCHLORIDE ; CAS No. : 1802181-67-4 )  
Exposure route : Oral  
Species : Rat  
Effective dose : > 2000 mg/kg  
Method : OECD 423  
Parameter : ATE ( 2,2' -OXYBISETHANOL ; CAS No. : 111-46-6 )  
Exposure route : Oral  
Effective dose : 500 mg/kg  
Parameter : ATE ( ISOTRIDEKANOL ETHOXYLATE ; CAS No. : 69011-36-5 )  
Exposure route : Oral  
Effective dose : 500 mg/kg  
Parameter : ATE ( DIDECYLDIMETHYLAMMONIUM CHLORIDE ; CAS No. : 7173-51-5 )  
Exposure route : Oral  
Effective dose : 200 mg/kg  
Parameter : ATE ( POLY(HEXAMETHYLENE BIGUANIDE)HYDROCHLORIDE ; CAS No. : 1802181-67-4 )  
Exposure route : Oral  
Effective dose : 500 mg/kg

### Practical experience/human evidence

Causes severe skin burns and eye damage.

### Acute dermal toxicity

Parameter : ATEmix calculated  
Exposure route : Dermal  
Effective dose : not relevant  
Parameter : LD50 ( 2,2' -OXYBISETHANOL ; CAS No. : 111-46-6 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 13300 mg/kg  
Parameter : LD50 ( ISOTRIDEKANOL ETHOXYLATE ; CAS No. : 69011-36-5 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 2000 mg/kg  
Parameter : LD50 ( DIDECYLDIMETHYLAMMONIUM CHLORIDE ; CAS No. : 7173-51-5 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 3342 mg/kg  
Parameter : LD50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )



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Exposure route : Dermal  
Species : Rabbit  
Effective dose : 12800 mg/kg  
Parameter : LD50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 13900 mg/kg  
Method : OECD 402  
Parameter : LD50 ( POLY(HEXAMETHYLENE BIGUANIDE)HYDROCHLORIDE ; CAS No. : 1802181-67-4 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 2000 mg/kg  
Method : OECD 402

### Acute inhalation toxicity

Parameter : ATEmix calculated  
Exposure route : Inhalative (vapour)  
Effective dose : 125 mg/l  
Parameter : LC0 ( 2,2' -OXYBISETHANOL ; CAS No. : 111-46-6 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 4,6 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 ( POLY(HEXAMETHYLENE BIGUANIDE)HYDROCHLORIDE ; CAS No. : 1802181-67-4 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 1,61 mg/l  
Method : OECD 403

### Irritant and corrosive effects

Causes severe skin burns and eye damage.

### Sensitisation

May cause an allergic skin reaction.

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

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

### 11.5 Additional information

The classification was carried out according to the calculation method of Regulation No. (EC) 1272/2008 [CLP].

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

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There are no data available on the preparation itself.

### Acute (short-term) fish toxicity

Parameter : LC50 ( 2,2` -OXYBISETHANOL ; CAS No. : 111-46-6 )  
Species : Pimephales promelas (fathead minnow)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 75200 mg/l  
Exposure time : 96 h

Parameter : LC50 ( 2,2` -OXYBISETHANOL ; CAS No. : 111-46-6 )  
Species : Carassius auratus (goldfish)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : > 5000 mg/l  
Exposure time : 24 h

Parameter : LC50 ( 2,2` -OXYBISETHANOL ; CAS No. : 111-46-6 )  
Species : Gambusia affinis (Mosquito fish)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : > 100 mg/l  
Exposure time : 96 h

Parameter : LC50 ( 2,2` -OXYBISETHANOL ; CAS No. : 111-46-6 )  
Species : Leuciscus idus (golden orfe)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : > 10000 mg/l  
Exposure time : 96 h

Parameter : LC50 ( 2,2` -OXYBISETHANOL ; CAS No. : 111-46-6 )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : > 1000 mg/l  
Exposure time : 96 h

Parameter : LC50 ( ISOTRIDEKANOL ETHOXYLATE ; CAS No. : 69011-36-5 )  
Species : Leuciscus idus (golden orfe)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 1 - 10 mg/l  
Exposure time : 96 h

Parameter : LC50 ( ISOTRIDEKANOL ETHOXYLATE ; CAS No. : 69011-36-5 )  
Species : Cyprinus carpio (Common Carp)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : > 1 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

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 ( POLY(HEXAMETHYLENE BIGUANIDE)HYDROCHLORIDE ; CAS No. : 1802181-67-4 )

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Species : Oncorhynchus mykiss (Rainbow trout)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 0,321 mg/l  
Exposure time : 96 h  
Method : OECD 203

### Chronic (long-term) fish toxicity

Parameter : NOEC ( DIDECYLDIMETHYLAMMONIUM CHLORIDE ; CAS No. : 7173-51-5 )  
Species : Brachydanio rerio (zebra-fish)  
Evaluation parameter : Chronic (long-term) fish toxicity  
Effective dose : 0,032 mg/l  
Exposure time : 816 h  
Method : OECD 210

Parameter : NOEC ( POLY(Hexamethylene biguanide)hydrochloride ; CAS No. : 1802181-67-4 )

Species : Pimephales promelas (fathead minnow)  
Evaluation parameter : Chronic (long-term) fish toxicity  
Effective dose : 0,00498 mg/l  
Exposure time : 672 h  
Method : OECD 210

### Acute (short-term) daphnia toxicity

Parameter : EC50 ( 2,2` -oxybisethanol ; CAS No. : 111-46-6 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : > 10000 mg/l  
Exposure time : 24 h

Parameter : EC50 ( 2,2` -oxybisethanol ; CAS No. : 111-46-6 )  
Species : Daphnia magna (Big water flea)  
Effective dose : 48900 mg/l  
Exposure time : 48 h

Parameter : EC50 ( ISOTRIDECANOL ETHOXYLATE ; CAS No. : 69011-36-5 )  
Species : Daphnia  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 1 - 10 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 ( 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  
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

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Parameter : EC50 ( POLY(HEXAMETHYLENE BIGUANIDE)HYDROCHLORIDE ; CAS No. : 1802181-67-4 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 0,156 mg/l  
Exposure time : 48 h  
Method : OECD 202

### Chronic (long-term) daphnia toxicity

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 mg/l  
Exposure time : 504 h  
Method : OECD 211

Parameter : NOEC ( POLY(HEXAMETHYLENE BIGUANIDE)HYDROCHLORIDE ; CAS No. : 1802181-67-4 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : 0,00544 mg/l  
Exposure time : 504 h  
Method : OECD 211

### Acute (short-term) algae toxicity

Parameter : EC50 ( 2,2` -OXYBISETHANOL ; CAS No. : 111-46-6 )  
Species : Selenastrum capricornutum  
Evaluation parameter : Inhibition of growth rate  
Effective dose : > 100 mg/l

Parameter : EC50 ( ISOTRIDECANOL ETHOXYLATE ; CAS No. : 69011-36-5 )  
Species : Desmodesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 1 - 10 mg/l  
Exposure time : 72 h  
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

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 : ErC50 ( POLY(HEXAMETHYLENE BIGUANIDE)HYDROCHLORIDE ; CAS No. : 1802181-67-4 )  
Species : Pseudokirchneriella subcapitata

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Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 0,0206 mg/l  
Exposure time : 72 h  
Method : OECD 201

### Chronic (long-term) algae toxicity

Parameter : NOEC ( 2,2` -OXYBISETHANOL ; CAS No. : 111-46-6 )  
Species : Scenedesmus quadricauda  
Evaluation parameter : Chronic (long-term) algae toxicity  
Effective dose : 2700 mg/l  
Exposure time : 192 h

### Bacteria toxicity

Parameter : EC50 ( 2,2` -OXYBISETHANOL ; CAS No. : 111-46-6 )  
Evaluation parameter : Bacteria toxicity  
Effective dose : > 1000 mg/l  
Exposure time : 3 h  
Parameter : EC10 ( 2,2` -OXYBISETHANOL ; CAS No. : 111-46-6 )  
Species : Pseudomonas putida  
Evaluation parameter : Bacteria toxicity  
Effective dose : 8000 mg/l  
Exposure time : 16 h  
Parameter : EC50 ( ISOTRIDEKANOL ETHOXYLATE ; CAS No. : 69011-36-5 )  
Species : Bacteria toxicity  
Effective dose : 140 mg/l  
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  
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

### Effects in sewage plants

In case of appropriate conduction into adapted biological purification plants no disturbances have to be expected.

## 12.2 Persistence and degradability

### Abiotic degradation

No data available.

### Biodegradation

Parameter : DOC reduction ( 2,2` -OXYBISETHANOL ; CAS No. : 111-46-6 )  
Inoculum : Degree of elimination  
Evaluation parameter : Biodegradation  
Effective dose : > 70 %  
Exposure time : 672 h  
Parameter : BOD (% of COD) ( ISOTRIDEKANOL ETHOXYLATE ; CAS No. : 69011-36-5 )  
Inoculum : Biodegradation  
Evaluation parameter : Aerobic  
Effective dose : > 60 %  
Exposure time : 672 h  
Method : OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C  
Parameter : BOD (% of COD) ( ISOTRIDEKANOL ETHOXYLATE ; CAS No. : 69011-36-5 )

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Inoculum : Biodegradation  
Evaluation parameter : Anaerobic  
Effective dose : > 60 %  
Exposure time : 1440 h

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

#### Known or predicted distribution to environmental compartments

No data available

#### Adsorption/Desorption

### 12.5 Results of PBT and vPvB assessment

No information available.

### 12.6 Other adverse effects

No information available.

### 12.7 Additional ecotoxicological information

Prevent from flowing into surface water/ground water.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product/Packaging disposal

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

##### Waste code product

Concentrate/larger quantities: 18 01 06\*.

##### Waste treatment options

##### Appropriate disposal / Product

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

##### Appropriate disposal / Package

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

## SECTION 14: Transport information

### 14.1 UN number

UN 1760

### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

CORROSIVE LIQUID, N.O.S. ( DIDECYLDIMETHYLAMMONIUM CHLORIDE )

#### Sea transport (IMDG)

CORROSIVE LIQUID, N.O.S. ( DIDECYLDIMETHYLAMMONIUM CHLORIDE )

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

CORROSIVE LIQUID, N.O.S. ( DIDECYLDIMETHYLAMMONIUM CHLORIDE )

### 14.3 Transport hazard class(es)

#### Land transport (ADR/RID)

**Class(es) :** 8  
**Classification code :** C9  
**Hazard identification number (Kemler No.) :** 80  
**Tunnel restriction code :** E

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**Special provisions :** LQ 1 | E 2

**Hazard label(s) :** 8 / N

### Sea transport (IMDG)

**Class(es) :** 8

**EmS-No. :** F-A / S-B

**Special provisions :** LQ 1 | E 2

**Hazard label(s) :** 8 / N

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

**Class(es) :** 8

**Special provisions :** E 2

**Hazard label(s) :** 8

## 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

## 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

## SECTION 15: Regulatory information

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

#### National regulations

##### Restrictions of occupation

According to directive 94/33/EC, juveniles are only allowed to handle this product as long as all effects of dangerous substances are prevented. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

### 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

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### 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

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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]

No information available.

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

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

### 16.6 Training advice

None

### 16.7 Additional information

Notice the directions for use on the label.

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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