

# Safety Data Sheet

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

**Trade name :** ID 213 Instrument disinfection  
**Revision :** 22.03.2018  
**Print date :** 22.03.2018

**Version (Revision) :** 5.0.0 (4.0.1)

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

#### 1.1 Product identifier

ID 213 Instrument disinfection

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

##### Relevant identified uses

ID 213 is an aldehyde-free concentrate for the disinfection and cleaning of general dental instruments (mirrors, probes, tweezers, forceps etc.).

##### Product Categories [PC]

PCO - 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 (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 : Category 1 ; Very toxic to aquatic life.

Aquatic Chronic 1 ; H410 - Hazardous to the aquatic environment : Category 1 ; Very 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. 1A ; H314 - Skin corrosion/irritation : Category 1A ; 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] as well as in-house investigations.

#### 2.2 Label elements

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

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### Hazard pictograms



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

### Signal word

Danger

### Hazard components for labelling

3-AMINOPROPYL-DODECYLPROPANE-DIAMINE ; CAS No. : 2372-82-9  
ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1  
FATTY ALCOHOL POLYGLYCOL ETHER ; CAS No. : 97043-91-9

### 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.  
H410 Very toxic to aquatic life with long lasting effects.

### Precautionary statements

P273 Avoid release to the environment.  
P280 Wear protective gloves and eye/face protection.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
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

None

## SECTION 3: Composition / information on ingredients

### 3.2 Mixtures

#### Description

ID 213 contains alkylamines, quaternary ammonium compounds, non-ionic surfactants, complexing agents, corrosion inhibitors, coumarin, citronellol, fragrances and auxiliary agents in aqueous solution.

#### Hazardous ingredients

3-AMINOPROPYL-DODECYLPROPANE-DIAMINE ; REACH registration No. : - ; EC No. : 219-145-8; CAS No. : 2372-82-9

Weight fraction :  $\geq 15 - < 20$  %  
Classification 1272/2008 [CLP] : Acute Tox. 3 ; H301 STOT RE 2 ; H373 Skin Corr. 1A ; H314 Eye Dam. 1 ; H318 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; REACH registration No. : 01-2119965180-41 ; EC No. : 270-325-2; CAS No. : 68424-85-1

Weight fraction :  $\geq 10 - < 15$  %  
Classification 1272/2008 [CLP] : Skin Corr. 1B ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

FATTY ALCOHOL POLYGLYCOL ETHER ; REACH registration No. : - ; CAS No. : 97043-91-9

Weight fraction :  $\geq 1 - < 3$  %  
Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302

SODIUM NITRITE ; EC No. : 231-555-9; CAS No. : 7632-00-0

Weight fraction :  $\geq 1 - < 5$  %  
Classification 1272/2008 [CLP] : Ox. Sol. 3 ; H272 Acute Tox. 3 ; H301 Aquatic Acute 1 ; H400

FATTY ALCOHOL POLYGLYCOL ETHER ; REACH registration No. : - ; CAS No. : 26183-52-8

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Weight fraction :  $\geq 1 - < 3 \%$   
Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302  
CITRONELLOL ; REACH registration No. : 01-2119453995-23 ; EC No. : 203-375-0; CAS No. : 106-22-9  
Weight fraction :  $< 0,1 \%$   
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Aquatic Chronic 2 ; H411  
COUMARIN ; REACH registration No. : 01-2119949300-45 ; EC No. : 202-086-7; CAS No. : 91-64-5  
Weight fraction :  $< 0,1 \%$   
Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Skin Sens. 1 ; H317

### 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

Remove contaminated, saturated clothing immediately. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### 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.

#### After 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 severe skin burns and eye damage.

### 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

Full 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.

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### 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.

##### 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 (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

##### 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. Provide adequate ventilation. Do not breathe vapour/aerosol.

##### 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

##### DNEL/DMEL and PNEC values

There are no data available on the preparation itself.

###### DNEL/DMEL

Limit value type :	DNEL Consumer (systemic) ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1 )
Exposure route :	Oral
Exposure frequency :	Long-term (repeated)
Limit value :	3,4 mg/kg
Limit value type :	DNEL Consumer (systemic) ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1 )

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Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 3,4 mg/kg  
Limit value type : DNEL Consumer (systemic) ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1 )

Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 1,64 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1 )

Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 3,96 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1 )

Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 5,7 mg/kg  
Limit value type : DNEL worker (systemic) ( SODIUM NITRITE ; CAS No. : 7632-00-0 )

Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 2 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( SODIUM NITRITE ; CAS No. : 7632-00-0 )

Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 2 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (local) ( CITRONELLOL ; CAS No. : 106-22-9 )

Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 29,5 mg/cm<sup>2</sup>  
Limit value type : DNEL Consumer (systemic) ( CITRONELLOL ; CAS No. : 106-22-9 )

Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 45,8 mg/kg  
Limit value type : DNEL Consumer (systemic) ( CITRONELLOL ; CAS No. : 106-22-9 )

Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 161,6 mg/m<sup>3</sup>

### PNEC

Limit value type : PNEC aquatic, freshwater (ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE; CAS No. : 68424-85-1 )  
Limit value : 0,0009 mg/l

Limit value type : PNEC aquatic, marine water ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1 )  
Limit value : 0,00096 mg/l

Limit value type : PNEC sediment, freshwater ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1 )  
Limit value : 12,27 mg/kg

Limit value type : PNEC sediment, marine water ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1 )  
Limit value : 13,09 mg/kg

Limit value type : PNEC sewage treatment plant (STP) ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1 )  
Limit value : 0,4 mg/l

Limit value type : PNEC aquatic, freshwater ( SODIUM NITRITE ; CAS No. : 7632-00-0 )  
Limit value : 0,0054 mg/l

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Limit value type :	PNEC aquatic, marine water ( SODIUM NITRITE ; CAS No. : 7632-00-0 )
Limit value :	0,00616 mg/l
Limit value type :	PNEC (Industrial) ( SODIUM NITRITE ; CAS No. : 7632-00-0 )
Exposure route :	Soil
Limit value :	0,00073 mg/kg
Limit value type :	PNEC sediment, freshwater ( SODIUM NITRITE ; CAS No. : 7632-00-0 )
Limit value :	0,0195 mg/kg
Limit value type :	PNEC sediment, marine water ( SODIUM NITRITE ; CAS No. : 7632-00-0 )
Limit value :	0,0223 mg/kg
Limit value type :	PNEC sewage treatment plant (STP) ( SODIUM NITRITE ; CAS No. : 7632-00-0 )
Limit value :	21 mg/l
Limit value type :	PNEC aquatic, freshwater ( CITRONELLOL ; CAS No. : 106-22-9 )
Limit value :	0,0024 mg/l
Limit value type :	PNEC aquatic, intermittent release ( CITRONELLOL ; CAS No. : 106-22-9 )
Limit value :	0,024 mg/l
Limit value type :	PNEC aquatic, marine water ( CITRONELLOL ; CAS No. : 106-22-9 )
Limit value :	0,00024 mg/l
Limit value type :	PNEC sediment, freshwater ( CITRONELLOL ; CAS No. : 106-22-9 )
Limit value :	0,0256 mg/kg
Limit value type :	PNEC sediment, marine water ( CITRONELLOL ; CAS No. : 106-22-9 )
Limit value :	0,00256 mg/kg
Limit value type :	PNEC sewage treatment plant (STP) ( CITRONELLOL ; CAS No. : 106-22-9 )
Limit value :	580 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

Usually no personal respiratory protection necessary.

#### General health and safety measures

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.

#### 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

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**Odour :** Amines

### Safety relevant basis data

<b>Melting point/melting range :</b>	( 1013 hPa )		not applicable	
<b>Initial boiling point and boiling range :</b>	( 1013 hPa )	ca.	100	°C
<b>Decomposition temperature :</b>	( 1013 hPa )		not determined	
<b>Flash point :</b>			not applicable	
<b>Ignition temperature :</b>			not applicable	
<b>Lower explosion limit :</b>			not applicable	
<b>Upper explosion limit :</b>			not applicable	
<b>Vapour pressure :</b>	( 50 °C )		not determined	
<b>Density :</b>	( 20 °C )		0,98 - 1,02	g/cm <sup>3</sup>
<b>Solvent separation test :</b>	( 20 °C )	<	3	%
<b>Water solubility :</b>	( 20 °C )		100	Wt %
<b>pH value :</b>			11,5 - 12,5	
<b>pH value :</b>	( 20 °C / 20 g/l )		9,7 - 10,7	
<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>			1	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). Reactions with acids: development of heat.

### 10.3 Possibility of hazardous reactions

Reactions with acids possible

### 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 :	LD50
Exposure route :	Oral
Species :	Rat
Effective dose :	ca. 1400 mg/kg
Method :	OECD 401

##### Practical experience/human evidence

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Eye contact with a 2 % application solution is associated with an irritating effect, but skin contact does not cause any irritations.

### Acute dermal toxicity

Parameter : LD50  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 2000 mg/kg  
Method : OECD 402 - 2 % solution.

### Irritant and corrosive effects

Rabbit skin: non-irritant (2 % solution). Rabbit eye: irritant (2 % solution). Method : OECD 405.

### Sensitisation

May cause sensitisation especially in sensitive humans.

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

#### Subacute oral toxicity

Parameter : NOAEL(C) ( 3-AMINOPROPYL-DODECYLPROPANE-DIAMINE ; CAS No. : 2372-82-9 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 9 mg/kg  
Exposure time : 2160 h

Parameter : NOAEL(C) ( 3-AMINOPROPYL-DODECYLPROPANE-DIAMINE ; CAS No. : 2372-82-9 )  
Exposure route : Oral  
Species : Dog  
Effective dose : 20 mg/kg  
Exposure time : 2160 h  
Method : OECD 409

#### Subacute dermal toxicity

Parameter : NOAEL(C) ( 3-AMINOPROPYL-DODECYLPROPANE-DIAMINE ; CAS No. : 2372-82-9 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : 15 mg/kg  
Exposure time : 2160 mg/kg

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

No information available.

### 11.5 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

There are no data available on the preparation itself.

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

Parameter : LC50 ( 3-AMINOPROPYL-DODECYLPROPANE-DIAMINE ; CAS No. : 2372-82-9 )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 0,68 mg/l  
Exposure time : 96 h  
Method : OECD 203  
Parameter : LC50 ( 3-AMINOPROPYL-DODECYLPROPANE-DIAMINE ; CAS No. : 2372-82-9 )  
Species : Lepomis macrochirus (Bluegill)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 0,45 mg/l



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Exposure time : 96 h  
Parameter : LC50 ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1 )  
Species : Fish  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 0,85 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1 )  
Species : Fish  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : > 0,1 - 1 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1 )  
Species : Pimephales promelas (fathead minnow)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 0,28 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1 )  
Species : Fish  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 0,515 mg/l  
Parameter : LC50 ( SODIUM NITRITE ; CAS No. : 7632-00-0 )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 0,54 - 26,3 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( FATTY ALCOHOL POLYGLYCOL ETHER ; CAS No. : 26183-52-8 )  
Species : Leuciscus idus (golden orfe)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 10 - 100 mg/l  
Exposure time : 96 h

### Chronic (long-term) fish toxicity

Parameter : NOEC ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1 )  
Species : Pimephales promelas (fathead minnow)  
Evaluation parameter : Chronic (long-term) fish toxicity  
Effective dose : 0,032 mg/l  
Exposure time : 816 h  
Parameter : NOEC ( SODIUM NITRITE ; CAS No. : 7632-00-0 )  
Species : Fish  
Evaluation parameter : Chronic (long-term) fish toxicity  
Effective dose : 6,16 mg/l  
Exposure time : 744 h

### Acute (short-term) daphnia toxicity

Parameter : EC50 ( 3-AMINOPROPYL-DODECYLPROPANE-DIAMINE ; CAS No. : 2372-82-9 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 0,073 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 0,016 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1 )  
Species : Daphnia pulex (water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity

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Effective dose : > 0,01 - 0,1 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1 )  
Species : Daphnia pulex (water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 0,016 mg/l  
Parameter : EC50 ( SODIUM NITRITE ; CAS No. : 7632-00-0 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 15,4 - 99 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( SODIUM NITRITE ; CAS No. : 7632-00-0 )  
Species : Daphnia  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 4,93 mg/l  
Parameter : EC50 ( FATTY ALCOHOL POLYGLYCOL ETHER ; CAS No. : 26183-52-8 )  
Species : Daphnia  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 10 - 100 mg/l  
Exposure time : 48 h

### Chronic (long-term) daphnia toxicity

Parameter : NOEC ( 3-AMINOPROPYL-DODECYLPROPANE-DIAMINE ; CAS No. : 2372-82-9 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : 0,024 mg/l  
Exposure time : 504 h  
Method : OECD 211  
Parameter : NOEC ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : 0,0042 mg/l  
Exposure time : 504 h  
Parameter : NOEC ( SODIUM NITRITE ; CAS No. : 7632-00-0 )  
Species : Daphnia  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : 9,86 mg/l  
Exposure time : 1920 h

### Acute (short-term) algae toxicity

Parameter : ErC50 ( 3-AMINOPROPYL-DODECYLPROPANE-DIAMINE ; CAS No. : 2372-82-9 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Inhibition of growth rate  
Effective dose : 0,054 mg/l  
Exposure time : 96 h  
Parameter : IC50 ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 0,01 - 0,1 mg/l  
Exposure time : 72 h  
Parameter : ErC50 ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 0,049 mg/l  
Exposure time : 72 h  
Method : OECD 201  
Parameter : EC50 ( SODIUM NITRITE ; CAS No. : 7632-00-0 )

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Species : Scenedesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 1000 mg/l  
Parameter : EC50 ( FATTY ALCOHOL POLYGLYCOL ETHER ; CAS No. : 26183-52-8 )  
Species : Algae  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 10 - 100 mg/l  
Exposure time : 72 h

### Chronic (long-term) algae toxicity

Parameter : NOEC ( 3-AMINOPROPYL-DODECYLPROPANE-DIAMINE ; CAS No. : 2372-82-9 )  
Species : Desmodesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 0,0069 mg/l  
Exposure time : 72 h  
Method : OECD 201  
Parameter : NOEC ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Chronic (long-term) algae toxicity  
Effective dose : > 0,001 - 0,01 mg/l  
Method : OECD 201

### Bacteria toxicity

Parameter : EC50 ( 3-AMINOPROPYL-DODECYLPROPANE-DIAMINE ; CAS No. : 2372-82-9 )  
Evaluation parameter : Bacteria toxicity  
Effective dose : 18 mg/l  
Exposure time : 3 h  
Parameter : EC50 ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1 )  
Species : Bacteria toxicity  
Effective dose : 7,75 mg/l  
Exposure time : 3 h  
Method : OECD 209  
Parameter : EC50 ( FATTY ALCOHOL POLYGLYCOL ETHER ; CAS No. : 97043-91-9 )  
Evaluation parameter : Bacteria toxicity  
Effective dose : > 1 mg/l  
Parameter : EC10 ( SODIUM NITRITE ; CAS No. : 7632-00-0 )  
Species : Bacteria toxicity  
Effective dose : 210 mg/l  
Exposure time : 3 h  
Parameter : EC10 ( SODIUM NITRITE ; CAS No. : 7632-00-0 )  
Species : Bacteria toxicity  
Effective dose : 421 mg/l  
Exposure time : 48 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 : BOD (% of COD) ( 3-AMINOPROPYL-DODECYLPROPANE-DIAMINE ; CAS No. : 2372-82-9 )  
Inoculum : Biodegradation  
Effective dose : 79 %  
Exposure time : 672 h  
Method : OECD 301D/ EEC 92/69/V, C.4-E  
Parameter : DOC reduction ( 3-AMINOPROPYL-DODECYLPROPANE-DIAMINE ; CAS No. : 2372-82-9 )

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Inoculum : Biodegradation  
Effective dose : 91 %  
Exposure time : 672 h  
Method : OECD 302B/ ISO 9888/ EEC 92/69/V, C.9

Evidence for inherent biodegradability. 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

There are no data available on the preparation itself.

#### 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\* (disinfectant).

##### 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 1719

### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

CAUSTIC ALKALI LIQUID, N.O.S. ( 3-AMINOPROPYL-DODECYL-1,3-PROPANEDIAMINE · ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE )

#### Sea transport (IMDG)

CAUSTIC ALKALI LIQUID, N.O.S. ( 3-AMINOPROPYL-DODECYL-1,3-PROPANEDIAMINE · ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE )

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

CAUSTIC ALKALI LIQUID, N.O.S. ( 3-AMINOPROPYL-DODECYL-1,3-PROPANEDIAMINE · ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE )

### 14.3 Transport hazard class(es)

#### Land transport (ADR/RID)

**Class(es) :** 8  
**Classification code :** C5

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Hazard identification number (Kemler No.) : 80  
Tunnel restriction code : E  
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 73/78 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

02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling

#### 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

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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) 1272/2008 [CLP]

No information available.

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

H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
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.
H411	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

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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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