

# Safety Data Sheet

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

**Trade name :** ID 212 Instrument disinfection  
**Revision :** 02.01.2018  
**Print date :** 02.01.2018

**Version (Revision) :** 3.0.1 (3.0.0)

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

#### 1.1 Product identifier

ID 212 Instrument disinfection

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

##### Relevant identified uses

ID 212 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 2 ; H411 - Hazardous to the aquatic environment : Category 2 ; Toxic to aquatic life with long lasting effects.

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

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin 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

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Environment (GHS09) · Exclamation mark (GHS07)

### Signal word

Warning

### Hazard statements

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.

### Precautionary statements

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.  
P353 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.

### 2.3 Other hazards

None

## SECTION 3: Composition / information on ingredients

### 3.2 Mixtures

#### Description

ID 212 contains quaternary ammonium compounds, guanidines, non-ionic surfactants, alkaline cleaning components, complexing agents, corrosion inhibitors, benzylsalicylate, fragrances and auxiliary agents in aqueous solution.

#### Hazardous ingredients

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

Weight fraction :  $\geq 5 - < 10 \%$   
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 ETHOXYLATE ; REACH registration No. : - ; EC No. : 500-213-3; CAS No. : 68439-50-9

Weight fraction :  $\geq 5 - < 10 \%$   
Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Aquatic Acute 1 ; H400

SODIUM ETHYLENEDIAMINETETRAACETATE ; REACH registration No. : 01-2119486762-27 ; EC No. : 200-573-9; CAS No. : 64-02-8

Weight fraction :  $\geq 3 - < 5 \%$   
Classification 1272/2008 [CLP] : STOT RE 2 ; H373 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Acute Tox. 4 ; H332

TRISODIUM PHOSPHATE-12 HYDRATE ; REACH registration No. : 01-2119489800-32 ; EC No. : 231-509-8; CAS No. : 10101-89-0

Weight fraction :  $\geq 1 - < 5 \%$   
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

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

Weight fraction :  $\geq 1 - < 2 \%$   
Classification 1272/2008 [CLP] : Ox. Sol. 3 ; H272 Acute Tox. 3 ; H301 Aquatic Acute 1 ; H400

TRISODIUM NITRILOTRIACETATE ; REACH registration No. : 01-2119519239-36 ; EC No. : 225-768-6; CAS No. : 5064-31-3

Weight fraction :  $< 0,5 \%$

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Classification 1272/2008 [CLP] : Carc. 2 ; H351 Acute Tox. 4 ; H302 Eye Irrit. 2 ; H319  
BENZYL SALICYLATE (BENZYL SALICYLATE) ; REACH registration No. : 01-2119969442-31 ; EC No. : 204-262-9; CAS No. : 118-58-1  
Weight fraction : < 0,1 %  
Classification 1272/2008 [CLP] : Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 Aquatic Chronic 3 ; H412

### 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

Irritating to eyes and skin.

### 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.

## SECTION 6: Accidental release measures

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

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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 (local) ( SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8 )
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	1,5 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (local) ( SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8 )
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	1,5 mg/m <sup>3</sup>

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Limit value type : DNEL Consumer (systemic) ( SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 1,5 mg/m<sup>3</sup>

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) ( FATTY ALCOHOL ETHOXYLATE ; CAS No. : 68439-50-9 )  
Exposure route : Oral  
Exposure frequency : Long-term (repeated)  
Limit value : 25 mg/kg  
Safety factor : 24 h

Limit value type : DNEL Consumer (systemic) ( TRISODIUM PHOSPHATE-12 HYDRATE ; CAS No. : 10101-89-0 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 3,04 mg/m<sup>3</sup>

Limit value type : DNEL Consumer (systemic) ( FATTY ALCOHOL ETHOXYLATE ; CAS No. : 68439-50-9 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 87 mg/m<sup>3</sup>

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

Limit value type : DNEL Consumer (systemic) ( SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8 )  
Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 1,5 mg/m<sup>3</sup>

Limit value type : DNEL Consumer (systemic) ( SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8 )  
Exposure route : Oral  
Exposure frequency : Long-term (repeated)  
Limit value : 25 mg/kg  
Safety factor : 24 h

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 Consumer (systemic) ( FATTY ALCOHOL ETHOXYLATE ; CAS No. : 68439-50-9 )  
Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 1250 mg/kg  
Safety factor : 24 h

Limit value type : DNEL worker (local) ( SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8 )  
Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 2,5 mg/m<sup>3</sup>

Limit value type : DNEL worker (local) ( SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8 )  
Exposure route : Inhalation

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Exposure frequency : Short-term (acute)  
Limit value : 2,5 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8 )

Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 2,5 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( FATTY ALCOHOL ETHOXYLATE ; CAS No. : 68439-50-9 )

Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 294 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) ( TRISODIUM PHOSPHATE-12 HYDRATE ; CAS No. : 10101-89-0 )

Exposure route : Inhalation  
Exposure frequency : Long-term (repeated)  
Limit value : 4,07 mg/m<sup>3</sup>  
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 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) ( FATTY ALCOHOL ETHOXYLATE ; CAS No. : 68439-50-9 )

Exposure route : Dermal  
Exposure frequency : Long-term (repeated)  
Limit value : 2080 mg/kg  
Safety factor : 24 h  
Limit value type : DNEL worker (systemic) ( SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8 )

Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 2,5 mg/m<sup>3</sup>

**PNEC**

Limit value type : PNEC aquatic, freshwater ( SODIUM NITRITE ; CAS No. : 7632-00-0 )  
Limit value : 0,0054 mg/l  
Limit value type : PNEC aquatic, freshwater ( SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8 )

Exposure route : Water (Including sewage plant)  
Limit value : 2,8 mg/l  
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, freshwater ( FATTY ALCOHOL ETHOXYLATE ; CAS No. : 68439-50-9 )  
Limit value : 0,0437 mg/l

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Limit value type : PNEC aquatic, intermittent release ( SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8 )  
Limit value : 1,6 mg/l  
Limit value type : PNEC aquatic, marine water ( SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8 )  
Exposure route : Water (Including sewage plant)  
Limit value : 0,28 mg/l  
Limit value type : PNEC aquatic, marine water ( SODIUM NITRITE ; CAS No. : 7632-00-0 )  
Limit value : 0,00616 mg/l  
Limit value type : PNEC aquatic, marine water ( FATTY ALCOHOL ETHOXYLATE ; CAS No. : 68439-50-9 )  
Limit value : 0,0437 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 aquatic, marine water ( TRISODIUM PHOSPHATE-12 HYDRATE ; CAS No. : 10101-89-0 )  
Limit value : 0,005 mg/l  
Limit value type : PNEC (Industrial) ( FATTY ALCOHOL ETHOXYLATE ; CAS No. : 68439-50-9 )  
Exposure route : Soil  
Limit value : 1 mg/kg  
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 (Industrial) ( SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8 )  
Exposure route : Soil  
Limit value : 0,95 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, freshwater ( FATTY ALCOHOL ETHOXYLATE ; CAS No. : 68439-50-9 )  
Limit value : 31 mg/kg  
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 ( FATTY ALCOHOL ETHOXYLATE ; CAS No. : 68439-50-9 )  
Limit value : 31 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 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 sewage treatment plant (STP) ( FATTY ALCOHOL ETHOXYLATE ; CAS No. : 68439-50-9 )  
Limit value : 1000 mg/l  
Limit value type : PNEC sewage treatment plant (STP) ( SODIUM NITRITE ; CAS No. : 7632-00-0 )  
Limit value : 21 mg/l  
Limit value type : PNEC sewage treatment plant (STP) ( SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8 )  
Exposure route : Water (Including sewage plant)  
Limit value : 57 mg/l  
Limit value type : PNEC sewage treatment plant (STP) ( TRISODIUM PHOSPHATE-12 HYDRATE ; CAS No. : 10101-89-0 )  
Limit value : 50 mg/l

### 8.2 Exposure controls

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### 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 respirative 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

**Odour :** aromatic

#### Safety relevant basis data

<b>Melting point/melting range :</b>	( 1013 hPa )		No data available
<b>Initial boiling point and boiling range :</b>	( 1013 hPa )	ca.	100 °C
<b>Decomposition temperature :</b>	( 1013 hPa )		No data available
<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 )	ca.	125 hPa
<b>Density :</b>	( 20 °C )		1,03 - 1,07 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>			12 - 12,6
<b>pH value :</b>	( 20 °C / 20 g/l )		10 - 11
<b>log P O/W :</b>			No data available
<b>Flow time :</b>	( 20 °C )	<	12 s
<b>Odour threshold :</b>			No data available
<b>Maximum VOC content (EC) :</b>			0,3 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



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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 :	> 2000 mg/kg
Method :	OECD 423
Parameter :	ATEmix calculated
Exposure route :	Oral
Effective dose :	> 2000 mg/kg
Parameter :	ATE ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1 )
Exposure route :	Oral
Effective dose :	500 mg/kg
Parameter :	ATE ( FATTY ALCOHOL ETHOXYLATE ; CAS No. : 68439-50-9 )
Exposure route :	Oral
Effective dose :	500 mg/kg
Parameter :	ATE ( SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8 )
Exposure route :	Oral
Effective dose :	500 mg/kg
Parameter :	ATE ( SODIUM NITRITE ; CAS No. : 7632-00-0 )
Exposure route :	Oral
Effective dose :	100 mg/kg
Parameter :	ATE ( TRISODIUM NITRILOTRIACETATE ; CAS No. : 5064-31-3 )
Exposure route :	Oral
Effective dose :	500 mg/kg

###### Practical experience/human evidence

Irritating to eyes and skin.

###### Acute dermal toxicity

Parameter :	ATEmix calculated
Exposure route :	Dermal
Effective dose :	not relevant
Parameter :	LD50 ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1 )

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Exposure route : Dermal  
Species : Rabbit  
Effective dose : 3340 mg/kg  
Exposure time : 24 h  
Parameter : LD50 ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 3412 mg/kg  
Parameter : LD50 ( TRISODIUM NITRILOTRIACETATE ; CAS No. : 5064-31-3 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 10000 mg/kg  
Parameter : LD50 ( TRISODIUM NITRILOTRIACETATE ; CAS No. : 5064-31-3 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 2000 mg/kg  
Method : OECD 402

### Acute inhalation toxicity

Parameter : ATEmix calculated  
Exposure route : Inhalative (vapour)  
Effective dose : not relevant  
Parameter : LC50 ( SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 1000 - 5000 mg/l  
Exposure time : 6 h  
Parameter : LC50 ( TRISODIUM NITRILOTRIACETATE ; CAS No. : 5064-31-3 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 5 mg/l  
Exposure time : 4 h  
Parameter : LC50 ( TRISODIUM NITRILOTRIACETATE ; CAS No. : 5064-31-3 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 4,25 mg/l  
Exposure time : 4 h  
Method : OECD 403

### Irritant and corrosive effects

Causes skin irritation. Human Skin Model (HSM) test. Causes serious eye irritation. OECD 437.

### Sensitisation

No data available.

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

None known.

### 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

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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 ( 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 ( SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8 )  
Species : Lepomis macrochirus (Bluegill)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 951 mg/l  
Exposure time : 96 h

Parameter : LC50 ( FATTY ALCOHOL ETHOXYLATE ; CAS No. : 68439-50-9 )  
Species : Leuciscus idus (golden orfe)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : > 100 mg/l

Parameter : LC50 ( SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8 )  
Species : Leuciscus idus (golden orfe)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 2040 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 : LC0 ( TRISODIUM PHOSPHATE-12 HYDRATE ; CAS No. : 10101-89-0 )  
Species : Leuciscus idus (golden orfe)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 2400 mg/l  
Exposure time : 48 h

### Chronic (long-term) fish toxicity

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

Parameter : NOEC ( SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8 )  
Species : Brachydanio rerio (zebra-fish)  
Evaluation parameter : Chronic (long-term) fish toxicity  
Effective dose : >= 25,7 mg/l  
Exposure time : 840 h  
Method : OECD 210

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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

### Acute (short-term) daphnia toxicity

Parameter : EC50 ( SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 140 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 ( 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 ( TRISODIUM PHOSPHATE-12 HYDRATE ; CAS No. : 10101-89-0 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : > 100 mg/l  
Exposure time : 72 h

Method : OECD 202  
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 ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE ; CAS No. : 68424-85-1 )  
Species : Daphnia pulex (water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : > 0,01 - 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

### Chronic (long-term) daphnia toxicity

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

Parameter : NOEC ( SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : 25 mg/l  
Exposure time : 504 h

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

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Exposure time : 504 h  
Parameter : NOEC ( TRISODIUM PHOSPHATE-12 HYDRATE ; CAS No. : 10101-89-0 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : > 100 mg/l  
Exposure time : 48 h  
Method : OECD 202

### Acute (short-term) algae toxicity

Parameter : EC50 ( SODIUM NITRITE ; CAS No. : 7632-00-0 )  
Species : Scenedesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 1000 mg/l  
Parameter : EC50 ( SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8 )  
Species : Algae  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 300 mg/l  
Exposure time : 72 h  
Parameter : EC50 ( FATTY ALCOHOL ETHOXYLATE ; CAS No. : 68439-50-9 )  
Species : Scenedesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 0,1 - 1 mg/l  
Exposure time : 72 h  
Parameter : EC50 ( TRISODIUM PHOSPHATE-12 HYDRATE ; CAS No. : 10101-89-0 )  
Species : Desmodesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : > 100 mg/l  
Exposure time : 72 h  
Method : OECD 201  
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

### Chronic (long-term) algae toxicity

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  
Parameter : NOEC ( FATTY ALCOHOL ETHOXYLATE ; CAS No. : 68439-50-9 )  
Species : Scenedesmus subspicatus  
Evaluation parameter : Chronic (long-term) algae toxicity  
Effective dose : 0,1 - 1 mg/l  
Parameter : NOEC ( TRISODIUM PHOSPHATE-12 HYDRATE ; CAS No. : 10101-89-0 )  
Species : Desmodesmus subspicatus  
Evaluation parameter : Chronic (long-term) algae toxicity  
Effective dose : > 100 mg/l  
Exposure time : 72 h  
Method : OECD 201

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### Bacteria toxicity

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 ( TRISODIUM PHOSPHATE-12 HYDRATE ; CAS No. : 10101-89-0 )  
Species : Bacteria toxicity  
Effective dose : > 1000 mg/l  
Exposure time : 3 h  
Parameter : EC0 ( FATTY ALCOHOL ETHOXYLATE ; CAS No. : 68439-50-9 )  
Evaluation parameter : Bacteria toxicity  
Effective dose : > 100 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

### Sediment toxicity

#### Toxicity to soil macroorganisms

##### Acute earthworm toxicity

Parameter : LC50 ( SODIUM ETHYLENEDIAMINETETRAACETATE ; CAS No. : 64-02-8 )  
Species : Acute earthworm toxicity  
Effective dose : 156 mg/kg  
Exposure time : 336 h  
Method : OECD 207

## 12.2 Persistence and degradability

### Abiotic degradation

No data available.

### Biodegradation

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

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### 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 3082

### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE · FATTY ALCOHOL ETHOXYLATE )

#### Sea transport (IMDG)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE · FATTY ALCOHOL ETHOXYLATE )

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

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( ALKYL-BENZYL-DIMETHYL AMMONIUM CHLORIDE · FATTY ALCOHOL ETHOXYLATE )

### 14.3 Transport hazard class(es)

#### Land transport (ADR/RID)

Class(es) : 9  
Classification code : M6  
Hazard identification number (Kemler No.) : 90  
Tunnel restriction code : E  
Special provisions : LQ 5 I · E 1  
Hazard label(s) : 9 / N

#### Sea transport (IMDG)

Class(es) : 9  
EmS-No. : F-A / S-F  
Special provisions : LQ 5 I · E 1  
Hazard label(s) : 9 / N

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

Class(es) : 9  
Special provisions : E 1  
Hazard label(s) : 9 / N

### 14.4 Packing group

III

### 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

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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.

#### 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. Classification of the substance or mixture · 02. Label elements · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 03. Hazardous ingredients

#### 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



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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.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
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.
H412	Harmful to aquatic life with long lasting effects.

### 16.6 Training advice

None

### 16.7 Additional information

Notice the directions 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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