

# EU safety data sheet

**Trade name:** KRONES colclean AD 2007

**Current version :** 1.0.3, issued: 08.04.2022

**Replaced version:** 1.0.2, issued: 08.06.2021

**Region:** GB

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

### 1.1 Product identifier

**Trade name**

**KRONES colclean AD 2007**

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

**Relevant identified uses of the substance or mixture**

Additive

**Uses advised against**

No data available.

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

**Address**

KIC KRONES Internationale Cooperationsgesellschaft mbH

Böhmerwaldstraße 5

93073 Neutraubling

Telephone no. +49 9401 70-3020

e-mail kic@kic-krones.com

**Advice on Safety Data Sheet**

sdb\_info@umco.de

### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

In case of transport incidents and other emergencies:

+44 (0) 1235 239 670 (NCEC, National Chemical Emergency Centre)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Acute 1; H400

Aquatic Chronic 2; H411

Eye Irrit. 2; H319

Skin Irrit. 2; H315

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)**

**Hazard pictograms**



GHS07



GHS09

**Signal word**

Warning

**Hazard statement(s)**

H315

Causes skin irritation.

H319

Causes serious eye irritation.

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|                                   |                                                                                                                                  |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| H410                              | Very toxic to aquatic life with long lasting effects.                                                                            |
| <b>Precautionary statement(s)</b> |                                                                                                                                  |
| P273                              | Avoid release to the environment.                                                                                                |
| P280                              | Wear protective gloves/protective clothing/eye protection/face protection.                                                       |
| P305+P351+P338                    | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P391                              | Collect spillage.                                                                                                                |
| P501                              | Dispose of contents/container to a facility in accordance with local and national regulations.                                   |

## 2.3 Other hazards

No data available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable. The product is not a substance.

### 3.2 Mixtures

#### Hazardous ingredients

| No | Substance name                                                        | Additional information                                                                                                                  |                        |
|----|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------|
|    | CAS / EC / Index / REACH no                                           | Classification (EC) 1272/2008 (CLP)                                                                                                     | Concentration %        |
| 1  | <b>Alcohols, C12-15-branched and linear, ethoxylated propoxylated</b> |                                                                                                                                         |                        |
|    | 120313-48-6<br>-<br>-<br>-                                            | Skin Irrit. 2; H315<br>Aquatic Acute 1; H400<br>Aquatic Chronic 3; H412                                                                 | >= 25.00 - < 50.00 wt% |
| 2  | <b>2-(2-butoxyethoxy)ethanol</b>                                      |                                                                                                                                         |                        |
|    | 112-34-5<br>203-961-6<br>603-096-00-8<br>01-2119475104-44             | Eye Irrit. 2; H319                                                                                                                      | >= 25.00 - < 50.00 wt% |
| 3  | <b>dimethyldioctylammonium-chloride</b>                               |                                                                                                                                         |                        |
|    | 5538-94-3<br>226-901-0<br>-<br>01-2120767055-53                       | Acute Tox. 3; H301<br>Acute Tox. 2; H310<br>Skin Corr. 1B; H314<br>Eye Dam. 1; H318<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410 | < 5.00 wt%             |

Full Text for all H-phrases and EUH-phrases: pls. see section 16

| No | Note | Specific concentration limits | M-factor (acute) | M-factor (chronic) |
|----|------|-------------------------------|------------------|--------------------|
| 3  | -    | -                             | M = 10           | -                  |

#### Acute toxicity estimate (ATE) values

| No | oral                 | dermal               | inhalative |
|----|----------------------|----------------------|------------|
| 3  | 238 mg/kg bodyweight | 238 mg/kg bodyweight |            |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of persisting adverse effects, consult a physician.

#### After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. In case of persisting adverse effects consult a physician.

#### After skin contact

When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.

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## **After eye contact**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get medical attention if pain still persists.

## **After ingestion**

Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.

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

No data available.

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

Foam; Extinguishing powder; Water spray jet; Carbon dioxide

#### **Unsuitable extinguishing media**

High power water jet

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

In the event of fire, the following can be released: Toxic pyrolysis products; Carbon monoxide and carbon dioxide

### **5.3 Advice for firefighters**

Use self-contained breathing apparatus. Wear protective clothing. Do not inhale explosion and/or combustion byproducts. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

## **SECTION 6: Accidental release measures**

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

#### **For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. High risk of slipping due to leakage/spillage of product.

#### **For emergency responders**

Personal protective equipment (PPE) - see section 8.

### **6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

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

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

### **6.4 Reference to other sections**

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

#### **Advice on safe handling**

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

#### **General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing.

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## 7.2 Conditions for safe storage, including any incompatibilities

### Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place.

### Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

### Incompatible products

Substances to be avoided, see section 10.

## 7.3 Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

| No | Substance name                                                  | CAS no.  | EC no.                   |
|----|-----------------------------------------------------------------|----------|--------------------------|
| 1  | 2-(2-butoxyethoxy)ethanol                                       | 112-34-5 | 203-961-6                |
|    | 2006/15/EC                                                      |          |                          |
|    | 2-(2-Butoxyethoxy)ethanol                                       |          |                          |
|    | WEL short-term (15 min reference period)                        | 101.2    | mg/m <sup>3</sup> 15 ppm |
|    | WEL long-term (8-hr TWA reference period)                       | 67.5     | mg/m <sup>3</sup> 10 ppm |
|    | <b>List of approved workplace exposure limits (WELs) / EH40</b> |          |                          |
|    | 2-(2-Butoxyethoxy)ethanol                                       |          |                          |
|    | WEL short-term (15 min reference period)                        | 101.2    | mg/m <sup>3</sup> 15 ppm |
|    | WEL long-term (8-hr TWA reference period)                       | 67.5     | mg/m <sup>3</sup> 10 ppm |

#### DNEL, DMEL and PNEC values

##### DNEL values (worker)

| No | Substance name                   |                     |          | CAS / EC no            |                   |
|----|----------------------------------|---------------------|----------|------------------------|-------------------|
|    | Route of exposure                | Exposure time       | Effect   | Value                  |                   |
| 1  | 2-(2-butoxyethoxy)ethanol        |                     |          | 112-34-5<br>203-961-6  |                   |
|    | dermal                           | Long term (chronic) | systemic | 20                     | mg/kg/day         |
|    | inhalative                       | Long term (chronic) | systemic | 67.5                   | mg/m <sup>3</sup> |
|    | inhalative                       | Long term (chronic) | local    | 67.5                   | mg/m <sup>3</sup> |
|    | inhalative                       | Short term (acute)  | local    | 101.2                  | mg/m <sup>3</sup> |
| 2  | dimethyldioctylammonium-chloride |                     |          | 5538-94-3<br>226-901-0 |                   |
|    | dermal                           | Long term (chronic) | systemic | 2.67                   | mg/kg/day         |
|    | inhalative                       | Long term (chronic) | systemic | 18.79                  | mg/m <sup>3</sup> |

##### DNEL value (consumer)

| No | Substance name                   |                     |          | CAS / EC no            |                   |
|----|----------------------------------|---------------------|----------|------------------------|-------------------|
|    | Route of exposure                | Exposure time       | Effect   | Value                  |                   |
| 1  | 2-(2-butoxyethoxy)ethanol        |                     |          | 112-34-5<br>203-961-6  |                   |
|    | oral                             | Long term (chronic) | systemic | 1.25                   | mg/kg/day         |
|    | dermal                           | Long term (chronic) | systemic | 10                     | mg/kg/day         |
|    | inhalative                       | Long term (chronic) | local    | 34                     | mg/m <sup>3</sup> |
|    | inhalative                       | Long term (chronic) | systemic | 34                     | mg/m <sup>3</sup> |
|    | inhalative                       | Short term (acute)  | local    | 50.6                   | mg/m <sup>3</sup> |
| 2  | dimethyldioctylammonium-chloride |                     |          | 5538-94-3<br>226-901-0 |                   |
|    | oral                             | Long term (chronic) | systemic | 1.6                    | µg/kg bw/day      |
|    | oral                             | Short term (acute)  | systemic | 1.6                    | µg/kg bw/day      |
|    | dermal                           | Long term (chronic) | systemic | 1.6                    | mg/kg/day         |

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|  |            |                     |          |      |                   |
|--|------------|---------------------|----------|------|-------------------|
|  | inhalative | Long term (chronic) | systemic | 7.36 | mg/m <sup>3</sup> |
|  | inhalative | Short term (acute)  | systemic | 7.36 | mg/m <sup>3</sup> |

## PNEC values

| No | Substance name                          | CAS / EC no           |                                      |
|----|-----------------------------------------|-----------------------|--------------------------------------|
|    | ecological compartment                  | Type                  | Value                                |
| 1  | <b>2-(2-butoxyethoxy)ethanol</b>        |                       | <b>112-34-5</b><br><b>203-961-6</b>  |
|    | water                                   | fresh water           | 1.0 mg/L                             |
|    | water                                   | fresh water sediment  | 4.0 mg/kg                            |
|    | with reference to: dry weight           |                       |                                      |
|    | water                                   | marine water          | 0.1 mg/L                             |
|    | water                                   | marine water sediment | 0.4 mg/kg                            |
|    | with reference to: dry weight           |                       |                                      |
|    | water                                   | Aqua intermittent     | 3.9 mg/L                             |
|    | soil                                    | -                     | 0.4 mg/kg                            |
|    | sewage treatment plant                  | -                     | 200 mg/L                             |
| 2  | <b>dimethyldioctylammonium-chloride</b> |                       | <b>5538-94-3</b><br><b>226-901-0</b> |
|    | water                                   | fresh water           | 1 µg/L                               |
|    | water                                   | marine water          | 0.1 µg/L                             |
|    | sewage treatment plant                  | -                     | 500 µg/L                             |

## 8.2 Exposure controls

### Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

#### Eye / face protection

Safety glasses with side protection shield (EN 166)

#### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

|                      |                |      |     |
|----------------------|----------------|------|-----|
| Appropriate Material | nitrile rubber |      |     |
| Material thickness   | >=             | 0.44 | mm  |
| Breakthrough time    | >=             | 480  | min |

#### Other

Chemical-resistant work clothes.

#### Environmental exposure controls

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                             |
|-----------------------------|
| <b>State of aggregation</b> |
| liquid                      |
| <b>Form/Colour</b>          |
| liquid                      |
| colourless                  |

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| <b>Odour</b>                                             |                                  |                     |           |
|----------------------------------------------------------|----------------------------------|---------------------|-----------|
| characteristic                                           |                                  |                     |           |
| <b>pH value</b>                                          |                                  |                     |           |
| Value                                                    |                                  | 7                   |           |
| <b>Boiling point / boiling range</b>                     |                                  |                     |           |
| Value                                                    | >                                | 250                 | °C        |
| <b>Melting point/freezing point</b>                      |                                  |                     |           |
| Value                                                    | appr.                            | -25                 | °C        |
| <b>Decomposition temperature</b>                         |                                  |                     |           |
| No data available                                        |                                  |                     |           |
| <b>Flash point</b>                                       |                                  |                     |           |
| Value                                                    | appr.                            | 190                 | °C        |
| <b>Ignition temperature</b>                              |                                  |                     |           |
| No data available                                        |                                  |                     |           |
| <b>Flammability</b>                                      |                                  |                     |           |
| No data available                                        |                                  |                     |           |
| <b>Lower explosion limit</b>                             |                                  |                     |           |
| No data available                                        |                                  |                     |           |
| <b>Upper explosion limit</b>                             |                                  |                     |           |
| No data available                                        |                                  |                     |           |
| <b>Vapour pressure</b>                                   |                                  |                     |           |
| No data available                                        |                                  |                     |           |
| <b>Relative vapour density</b>                           |                                  |                     |           |
| No data available                                        |                                  |                     |           |
| <b>Relative density</b>                                  |                                  |                     |           |
| Value                                                    |                                  | 0.98                |           |
| <b>Density</b>                                           |                                  |                     |           |
| No data available                                        |                                  |                     |           |
| <b>Solubility in water</b>                               |                                  |                     |           |
| Comments                                                 |                                  | Completely miscible |           |
| <b>Solubility</b>                                        |                                  |                     |           |
| No data available                                        |                                  |                     |           |
| <b>Partition coefficient n-octanol/water (log value)</b> |                                  |                     |           |
| No                                                       | Substance name                   | CAS no.             | EC no.    |
| 1                                                        | dimethyldioctylammonium-chloride | 5538-94-3           | 226-901-0 |
| log Pow                                                  |                                  | 0.1                 |           |
| Reference temperature                                    |                                  | 21                  | °C        |
| Method                                                   |                                  | OECD 107            |           |
| Source                                                   |                                  | ECHA                |           |
| <b>Viscosity</b>                                         |                                  |                     |           |
| No data available                                        |                                  |                     |           |
| <b>Particle characteristics</b>                          |                                  |                     |           |
| No data available                                        |                                  |                     |           |
| <b>9.2 Other information</b>                             |                                  |                     |           |
| <b>Other information</b>                                 |                                  |                     |           |
| No data available.                                       |                                  |                     |           |

## SECTION 10: Stability and reactivity

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## 10.1 Reactivity

Stable at ambient temperature.

## 10.2 Chemical stability

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

## 10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

## 10.4 Conditions to avoid

None, if handled according to intended use.

## 10.5 Incompatible materials

strong oxidizing agents; strong acids; strong bases

## 10.6 Hazardous decomposition products

None, if handled according to intended use.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

| Acute oral toxicity (result of the ATE calculation for the mixture) |                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No                                                                  | Product Name                                                                                                                                                                                                                                                                                                    |
| 1                                                                   | KRONES colclean AD 2007                                                                                                                                                                                                                                                                                         |
| Comments                                                            | The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg). |

| Acute oral toxicity |                                  |           |                  |
|---------------------|----------------------------------|-----------|------------------|
| No                  | Substance name                   | CAS no.   | EC no.           |
| 1                   | dimethyldioctylammonium-chloride | 5538-94-3 | 226-901-0        |
| LD50                |                                  | 238       | mg/kg bodyweight |
| Species             | rat                              |           |                  |
| Method              | OECD 401                         |           |                  |
| Source              | ECHA                             |           |                  |

| Acute dermal toxicity (result of the ATE calculation for the mixture) |                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No                                                                    | Product Name                                                                                                                                                                                                                                                                                                      |
| 1                                                                     | KRONES colclean AD 2007                                                                                                                                                                                                                                                                                           |
| Comments                                                              | The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE dermal > 2000 mg/kg). |

| Acute dermal toxicity |                                  |           |                  |
|-----------------------|----------------------------------|-----------|------------------|
| No                    | Substance name                   | CAS no.   | EC no.           |
| 1                     | dimethyldioctylammonium-chloride | 5538-94-3 | 226-901-0        |
| LD50                  |                                  | 191       | mg/kg bodyweight |
| Species               | rabbit                           |           |                  |
| Source                | supplier                         |           |                  |

| Acute inhalational toxicity |  |
|-----------------------------|--|
| No data available           |  |

| Skin corrosion/irritation |  |
|---------------------------|--|
| No data available         |  |

| Serious eye damage/irritation |                                  |           |           |
|-------------------------------|----------------------------------|-----------|-----------|
| No                            | Substance name                   | CAS no.   | EC no.    |
| 1                             | dimethyldioctylammonium-chloride | 5538-94-3 | 226-901-0 |
| Species                       | rabbit                           |           |           |

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|            |           |
|------------|-----------|
| Method     | OECD 405  |
| Source     | ECHA      |
| Evaluation | corrosive |

## Respiratory or skin sensitisation

No data available

## Germ cell mutagenicity

| No                        | Substance name                                                    | CAS no.   | EC no.    |
|---------------------------|-------------------------------------------------------------------|-----------|-----------|
| 1                         | dimethyldioctylammonium-chloride                                  | 5538-94-3 | 226-901-0 |
| Method                    | OECD 473                                                          |           |           |
| Source                    | ECHA                                                              |           |           |
| Evaluation/classification | Based on available data, the classification criteria are not met. |           |           |

## Reproduction toxicity

| No                        | Substance name                                                    | CAS no.   | EC no.    |
|---------------------------|-------------------------------------------------------------------|-----------|-----------|
| 1                         | dimethyldioctylammonium-chloride                                  | 5538-94-3 | 226-901-0 |
| Method                    | OECD 416                                                          |           |           |
| Source                    | ECHA                                                              |           |           |
| Evaluation/classification | Based on available data, the classification criteria are not met. |           |           |

## Carcinogenicity

| No                        | Substance name                                                    | CAS no.   | EC no.    |
|---------------------------|-------------------------------------------------------------------|-----------|-----------|
| 1                         | dimethyldioctylammonium-chloride                                  | 5538-94-3 | 226-901-0 |
| Method                    | OECD 451                                                          |           |           |
| Source                    | ECHA                                                              |           |           |
| Evaluation/classification | Based on available data, the classification criteria are not met. |           |           |

## STOT - single exposure

No data available

## STOT - repeated exposure

| No                        | Substance name                                                    | CAS no.   | EC no.    |
|---------------------------|-------------------------------------------------------------------|-----------|-----------|
| 1                         | dimethyldioctylammonium-chloride                                  | 5538-94-3 | 226-901-0 |
| Source                    | ECHA                                                              |           |           |
| Evaluation/classification | Based on available data, the classification criteria are not met. |           |           |

## Aspiration hazard

No data available

## 11.2 Information on other hazards

### Endocrine disrupting properties

No data available.

### Other information

No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

| Toxicity to fish (acute) |                                  |           |           |
|--------------------------|----------------------------------|-----------|-----------|
| No                       | Substance name                   | CAS no.   | EC no.    |
| 1                        | dimethyldioctylammonium-chloride | 5538-94-3 | 226-901-0 |
| LC50                     |                                  | 0.35      | mg/l      |
| Duration of exposure     |                                  | 96        | h         |
| Species                  | Oncorhynchus mykiss              |           |           |
| Method                   | OECD 203                         |           |           |
| Source                   | ECHA                             |           |           |

| Toxicity to fish (chronic) |                                  |           |           |
|----------------------------|----------------------------------|-----------|-----------|
| No                         | Substance name                   | CAS no.   | EC no.    |
| 1                          | dimethyldioctylammonium-chloride | 5538-94-3 | 226-901-0 |
| NOEC                       |                                  | 32        | µg/l      |
| Duration of exposure       |                                  | 33        | day(s)    |



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|         |             |
|---------|-------------|
| Species | Danio rerio |
| Method  | OECD 210    |
| Source  | ECHA        |

| Toxicity to Daphnia (acute) |                                  |           |           |
|-----------------------------|----------------------------------|-----------|-----------|
| No                          | Substance name                   | CAS no.   | EC no.    |
| 1                           | dimethyldioctylammonium-chloride | 5538-94-3 | 226-901-0 |
| EC50                        |                                  | 0.10      | mg/l      |
| Duration of exposure        |                                  | 48        | h         |
| Species                     | Daphnia magna                    |           |           |
| Method                      | OECD 202                         |           |           |
| Source                      | ECHA                             |           |           |

| Toxicity to Daphnia (chronic) |                                  |           |           |
|-------------------------------|----------------------------------|-----------|-----------|
| No                            | Substance name                   | CAS no.   | EC no.    |
| 1                             | dimethyldioctylammonium-chloride | 5538-94-3 | 226-901-0 |
| NOEC                          |                                  | 46        | µg/l      |
| Duration of exposure          |                                  | 21        | day(s)    |
| Species                       | Daphnia magna                    |           |           |
| Method                        | OECD 211                         |           |           |
| Source                        | ECHA                             |           |           |

| Toxicity to algae (acute) |                                  |           |           |
|---------------------------|----------------------------------|-----------|-----------|
| No                        | Substance name                   | CAS no.   | EC no.    |
| 1                         | dimethyldioctylammonium-chloride | 5538-94-3 | 226-901-0 |
| ErC50                     |                                  | 0.122     | mg/l      |
| Duration of exposure      |                                  | 72        | h         |
| Species                   | Pseudokirchneriella subcapitata  |           |           |
| Method                    | OECD 201                         |           |           |
| Source                    | ECHA                             |           |           |

| Toxicity to algae (chronic) |                                  |           |           |
|-----------------------------|----------------------------------|-----------|-----------|
| No                          | Substance name                   | CAS no.   | EC no.    |
| 1                           | dimethyldioctylammonium-chloride | 5538-94-3 | 226-901-0 |
| NOEC                        |                                  | 0.010     | mg/l      |
| Duration of exposure        |                                  | 72        | h         |
| Species                     | Pseudokirchneriella subcapitata  |           |           |
| Method                      | OECD 201                         |           |           |
| Source                      | ECHA                             |           |           |

| Bacteria toxicity |  |
|-------------------|--|
| No data available |  |

## 12.2 Persistence and degradability

| Biodegradability |                                                                                      |           |           |
|------------------|--------------------------------------------------------------------------------------|-----------|-----------|
| No               | Substance name                                                                       | CAS no.   | EC no.    |
| 1                | dimethyldioctylammonium-chloride                                                     | 5538-94-3 | 226-901-0 |
| Value            |                                                                                      | > 70      | %         |
| Method           | OECD 301 D                                                                           |           |           |
| Source           | ECHA                                                                                 |           |           |
| Evaluation       | The test material is easily biodegradable, but misses the 10-day window requirement. |           |           |

## 12.3 Bioaccumulative potential

| Partition coefficient n-octanol/water (log value) |                                  |           |           |
|---------------------------------------------------|----------------------------------|-----------|-----------|
| No                                                | Substance name                   | CAS no.   | EC no.    |
| 1                                                 | dimethyldioctylammonium-chloride | 5538-94-3 | 226-901-0 |
| log Pow                                           |                                  | 0.1       |           |
| Reference temperature                             |                                  | 21        | °C        |
| Method                                            | OECD 107                         |           |           |
| Source                                            | ECHA                             |           |           |

## 12.4 Mobility in soil

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No data available.

## 12.5 Results of PBT and vPvB assessment

No data available.

## 12.6 Endocrine disrupting properties

No data available.

## 12.7 Other adverse effects

No data available.

## 12.8 Other information

### Other information

Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility. Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

#### Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

## SECTION 14: Transport information

### 14.1 Transport ADR/RID/ADN

|                                          |                                                                                                 |
|------------------------------------------|-------------------------------------------------------------------------------------------------|
| Class                                    | 9                                                                                               |
| Classification code                      | M6                                                                                              |
| Packing group                            | III                                                                                             |
| Hazard identification no.                | 90                                                                                              |
| UN number                                | UN3082                                                                                          |
| Proper shipping name                     | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.                                             |
| Technical name                           | Alcohols, C12-15-branched and linear, ethoxylated propoxylated dimethyldioctylammonium-chloride |
| Tunnel restriction code                  | -                                                                                               |
| Label                                    | 9                                                                                               |
| Environmentally hazardous substance mark | Symbol "fish and tree"                                                                          |

### 14.2 Transport IMDG

|                       |                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------|
| Class                 | 9                                                                                               |
| Packing group         | III                                                                                             |
| UN number             | UN3082                                                                                          |
| Proper shipping name  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.                                             |
| Technical name        | Alcohols, C12-15-branched and linear, ethoxylated propoxylated dimethyldioctylammonium-chloride |
| EmS                   | F-A, S-F                                                                                        |
| Label                 | 9                                                                                               |
| Marine pollutant mark | Symbol "fish and tree"                                                                          |

### 14.3 Transport ICAO-TI / IATA

|                      |                                                                                                 |
|----------------------|-------------------------------------------------------------------------------------------------|
| Class                | 9                                                                                               |
| Packing group        | III                                                                                             |
| UN number            | UN3082                                                                                          |
| Proper shipping name | Environmentally hazardous substance, liquid, n.o.s.                                             |
| Technical name       | Alcohols, C12-15-branched and linear, ethoxylated propoxylated dimethyldioctylammonium-chloride |
| Label                | 9                                                                                               |

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Environmentally hazardous substance mark      Symbol "fish and tree"

## 14.4 Other information

No data available.

## 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

## 14.6 Special precautions for user

No data available.

## 14.7 Maritime transport in bulk according to IMO instruments

Not relevant

## SECTION 15: Regulatory information

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

#### EU regulations

##### Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

##### REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

##### Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.      No 3

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

| No | Substance name            | CAS no.  | EC no.    | No     |
|----|---------------------------|----------|-----------|--------|
| 1  | 2-(2-butoxyethoxy)ethanol | 112-34-5 | 203-961-6 | 55, 75 |

##### Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is subject to Part I of Annex I, risk category:      E1

##### Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

### 15.2 Chemical safety assessment

No data available.

## SECTION 16: Other information

#### Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

#### Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

|      |                                          |
|------|------------------------------------------|
| H301 | Toxic if swallowed.                      |
| H310 | Fatal in contact with skin.              |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage.               |
| H400 | Very toxic to aquatic life.              |

# EU safety data sheet

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H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

**Creation of the safety data sheet**

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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