



## Room Care R2

Revision: 2023-03-14

Version: 01.2

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

#### 1.1 Product identifier

**Trade name:** Room Care R2

UFI: W045-40V7-U00E-SMP8

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

**Product use:** Surface disinfectant.  
For professional use only.

**Uses advised against:** Uses other than those identified are not recommended.

#### SWED - Sector-specific worker exposure description :

AISE\_SWED\_PW\_11\_1

AISE\_SWED\_PW\_19\_1

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

Diversey Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

#### Contact details

Diversey Ltd  
Weston Favell Centre, Northampton NN3 8PD, United Kingdom  
Tel: 01604 405311, Fax: 01604 406809  
Regulatory Email: customerservice.uk@diversey.com

#### 1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible)  
For medical or environmental emergency only:  
call 0800 052 0185

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Eye Irrit. 2 (H319)  
Aquatic Chronic 2 (H411)

#### 2.2 Label elements



**Signal word:** Warning.

#### Hazard statements:

H319 - Causes serious eye irritation.  
H411 - Toxic to aquatic life with long lasting effects.

#### 2.3 Other hazards

No other hazards known. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

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| Ingredient(s)                       | EC number | CAS number | REACH number      | Classification   | Notes | Weight percent |
|-------------------------------------|-----------|------------|-------------------|--|-------|----------------|
| Didecyltrimethyl ammonium chloride  | 230-525-2 | 7173-51-5  | No data available | Skin Corr. 1B (H314)<br>Acute Tox. 4 (H302)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 2 (H411)                        |       | 0.1-1          |
| alkyldimethylbenzylammoniumchloride | 270-325-2 | 68424-85-1 | No data available | Skin Corr. 1B (H314)<br>Acute Tox. 4 (H302)<br>Acute Tox. 4 (H312)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) |       | 0.1-1          |

**Specific concentration limits**

alkyl alcohol ethoxylate:

• Eye Dam. 1 (H318) &gt;= 10% &gt; Eye Irrit. 2 (H319) &gt;= 1%

Propan-2-ol:

• Flam. Liq. 2 (H225) &gt;= 35% &gt; Flam. Liq. 3 (H226) &gt;= 2%

For the full text of the H and EUH phrases mentioned in this Section, see Section 16.

Workplace exposure limit(s), if available, are listed in subsection 8.1.

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.

[3] Exempted: Annex V of Regulation (EC) No 1907/2006.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

ATE, if available, are listed in section 11..

**SECTION 4: First aid measures****4.1 Description of first aid measures****Inhalation:**

Get medical attention or advice if you feel unwell.

**Skin contact:**

Wash skin with plenty of lukewarm, gently flowing water. If skin irritation occurs: Get medical advice or attention.

**Eye contact:**

Immediately rinse eyes cautiously with lukewarm water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get medical attention.

**Ingestion:**

Immediately drink 1 glass of water. Get medical attention or advice if you feel unwell.

**Self-protection of first aider:**

Consider personal protective equipment as indicated in subsection 8.2.

**4.2 Most important symptoms and effects, both acute and delayed****Inhalation:**

No known effects or symptoms in normal use.

**Skin contact:**

No known effects or symptoms in normal use.

**Eye contact:**

Causes severe irritation.

**Ingestion:**

No known effects or symptoms in normal use.

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

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

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

No special hazards known.

**5.3 Advice for firefighters**

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

No special measures required.

**6.2 Environmental precautions**

Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Dilute with plenty of water. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

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

Absorb with liquid-binding material (sand, diatomite, universal binders).

**6.4 Reference to other sections**

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For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Measures to prevent fire and explosions:

No special precautions required.

#### Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

#### Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Use personal protective equipment as required. Use only with adequate ventilation.

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

Store in accordance with local and national regulations. Keep only in original packaging. Store in a closed container.

For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

### 7.3 Specific end use(s)

No specific advice for end use available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Workplace exposure limits

Air limit values, if available:

Biological limit values, if available:

#### Recommended monitoring procedures, if available:

#### Additional exposure limits under the conditions of use, if available:

### DNEL/DMEL and PNEC values

#### Human exposure

DNEL/DMEL oral exposure - Consumer (mg/kg bw)

| Ingredient(s)                       | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|-------------------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| Didecyltrimethyl ammonium chloride  | -                          | -                             | -                         | -                            |
| alkyldimethylbenzylammoniumchloride | -                          | -                             | -                         | 3.4                          |

DNEL/DMEL dermal exposure - Worker

| Ingredient(s)                       | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|-------------------------------------|----------------------------|--|---------------------------|---|
| Didecyltrimethyl ammonium chloride  | -                          | -  | -                         | 8.6                                     |
| alkyldimethylbenzylammoniumchloride | -                          | -  | -                         | 5.7                                     |

DNEL/DMEL dermal exposure - Consumer

| Ingredient(s)                       | Short term - Local effects | Short term - Systemic effects (mg/kg bw) | Long term - Local effects | Long term - Systemic effects (mg/kg bw) |
|-------------------------------------|----------------------------|--|---------------------------|---|
| Didecyltrimethyl ammonium chloride  | -                          | -  | -                         | -                                       |
| alkyldimethylbenzylammoniumchloride | -                          | -  | -                         | 3.4                                     |

DNEL/DMEL inhalatory exposure - Worker (mg/m<sup>3</sup>)

| Ingredient(s)                       | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|-------------------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| Didecyltrimethyl ammonium chloride  | -                          | -                             | -                         | 18.2                         |
| alkyldimethylbenzylammoniumchloride | -                          | -                             | -                         | 3.96                         |

DNEL/DMEL inhalatory exposure - Consumer (mg/m<sup>3</sup>)

| Ingredient(s)                       | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|-------------------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| Didecyltrimethyl ammonium chloride  | -                          | -                             | -                         | -                            |
| alkyldimethylbenzylammoniumchloride | -                          | -                             | -                         | 1.64                         |

### Environmental exposure

Environmental exposure - PNEC

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| Ingredient(s)                       | Surface water, fresh (mg/l) | Surface water, marine (mg/l) | Intermittent (mg/l) | Sewage treatment plant (mg/l) |
|-------------------------------------|-----------------------------|------------------------------|---------------------|-------------------------------|
| Didecyltrimethyl ammonium chloride  | 0.002                       | 0.0002                       | 0.00029             | 0.595                         |
| alkyldimethylbenzylammoniumchloride | 0.0009                      | 0.00096                      | 0.00016             | 0.4                           |

Environmental exposure - PNEC, continued

| Ingredient(s)                       | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg) | Air (mg/m <sup>3</sup> ) |
|-------------------------------------|------------------------------|--------------------------|--------------|--------------------------|
| Didecyltrimethyl ammonium chloride  | 2.82                         | 0.282                    | 1.4          | -                        |
| alkyldimethylbenzylammoniumchloride | 12.27                        | 13.09                    | 7            | -                        |

**8.2 Exposure controls**

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

**Appropriate engineering controls:** Provide a good standard of general ventilation.  
**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

**REACH use scenarios considered for the undiluted product:**

|                    | SWED - Sector-specific worker exposure description | LCS | PROC    | Duration (min) | ERC   |
|--------------------|--|-----|---------|----------------|-------|
| Spray application  | AISE_SWED_PW_11_1                                  | PW  | PROC 11 | 60             | ERC8a |
| Manual application | AISE_SWED_PW_19_1                                  | PW  | PROC 19 | 480            | ERC8a |

**Personal protective equipment**

**Eye / face protection:** Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product (EN 166).  
**Hand protection:** Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary.  
**Body protection:** No special requirements under normal use conditions.  
**Respiratory protection:** Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided.

**Environmental exposure controls:** Should not reach sewage water or drainage ditch undiluted or unneutralised.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Information in this section refers to the product, unless it is specifically stated that substance data is listed

**Method / remark**

**Physical state:** Liquid  
**Colour:** Clear , Green  
**Odour:** Slightly perfumed  
**Odour threshold:** Not applicable  
**Melting point/freezing point (°C):** Not determined  
**Initial boiling point and boiling range (°C):** Not determined

Not relevant to classification of this product

Substance data, boiling point

| Ingredient(s)                       | Value (°C) | Method           | Atmospheric pressure (hPa) |
|-------------------------------------|------------|------------------|----------------------------|
| Didecyltrimethyl ammonium chloride  | 110        |                  |                            |
| alkyldimethylbenzylammoniumchloride | > 107      | Method not given |                            |

**Method / remark**

**Flammability (solid, gas):** Not determined  
**Flammability (liquid):** Not determined.  
**Flash point (°C):** Not applicable.  
**Sustained combustion:** Not applicable.  
 ( UN Manual of Tests and Criteria, section 32, L.2 )  
**Lower and upper explosion limit/flammability limit (%):** Not determined

Substance data, flammability or explosive limits, if available:

| Ingredient(s)                       | Lower limit (% vol) | Upper limit (% vol) |
|-------------------------------------|---------------------|---------------------|
| alkyldimethylbenzylammoniumchloride | -                   | -                   |

## Method / remark

**Autoignition temperature:** Not determined  
**Decomposition temperature:** Not applicable.  
**pH:** ≈ 11 (neat)  
**Kinematic viscosity:** Not determined  
**Solubility in / Miscibility with water:** Fully miscible

Substance data, solubility in water

| Ingredient(s)                       | Value (g/l)       | Method           | Temperature (°C) |
|-------------------------------------|-------------------|------------------|------------------|
| Didecyldimethyl ammonium chloride   | No data available |                  |                  |
| alkyldimethylbenzylammoniumchloride | Soluble           | Method not given |                  |

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

## Method / remark

**Vapour pressure:** Not determined

Substance data, vapour pressure

| Ingredient(s)                       | Value (Pa)        | Method           | Temperature (°C) |
|-------------------------------------|-------------------|------------------|------------------|
| Didecyldimethyl ammonium chloride   | No data available |                  |                  |
| alkyldimethylbenzylammoniumchloride | 2300              | Method not given | 20               |

## Method / remark

**Relative density:** ≈ 1.00 (20 °C)  
**Relative vapour density:** Not determined.  
**Particle characteristics:** No data available.

Not relevant to classification of this product  
 Not applicable to liquids.

**9.2 Other information****9.2.1 Information with regard to physical hazard classes**

**Explosive properties:** Not explosive.  
**Oxidising properties:** Not oxidising.  
**Corrosion to metals:** Not corrosive

Weight of evidence

**9.2.2 Other safety characteristics**

No other relevant information available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No reactivity hazards known under normal storage and use conditions.

**10.2 Chemical stability**

Stable under normal storage and use conditions.

**10.3 Possibility of hazardous reactions**

No hazardous reactions known under normal storage and use conditions.

**10.4 Conditions to avoid**

None known under normal storage and use conditions.

**10.5 Incompatible materials**

Reacts with acids.

**10.6 Hazardous decomposition products**

None known under normal storage and use conditions.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Mixture data:.

**Relevant calculated ATE(s):**

ATE - Oral (mg/kg): &gt;2000

Substance data, where relevant and available, are listed below:.

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**Acute toxicity**

## Acute oral toxicity

| Ingredient(s)                       | Endpoint         | Value (mg/kg) | Species | Method           | Exposure time (h) | ATE (mg/kg) |
|-------------------------------------|------------------|---------------|---------|------------------|-------------------|-------------|
| Didecyldimethyl ammonium chloride   | LD <sub>50</sub> | 238           | Rat     | Method not given |                   | 238         |
| alkyldimethylbenzylammoniumchloride | LD <sub>50</sub> | 304.5         | Rat     |                  |                   | 304.5       |

## Acute dermal toxicity

| Ingredient(s)                       | Endpoint         | Value (mg/kg)     | Species | Method           | Exposure time (h) | ATE (mg/kg)     |
|-------------------------------------|------------------|-------------------|---------|------------------|-------------------|-----------------|
| Didecyldimethyl ammonium chloride   |                  | No data available |         |                  |                   | Not established |
| alkyldimethylbenzylammoniumchloride | LD <sub>50</sub> | 3412              | Rabbit  | Method not given |                   | 3412            |

## Acute inhalative toxicity

| Ingredient(s)                       | Endpoint | Value (mg/l)      | Species | Method | Exposure time (h) |
|-------------------------------------|----------|-------------------|---------|--------|-------------------|
| Didecyldimethyl ammonium chloride   |          | No data available |         |        |                   |
| alkyldimethylbenzylammoniumchloride |          | No data available |         |        |                   |

## Acute inhalative toxicity, continued

| Ingredient(s)                       | ATE - inhalation, dust (mg/l) | ATE - inhalation, mist (mg/l) | ATE - inhalation, vapour (mg/l) | ATE - inhalation, gas (mg/l) |
|-------------------------------------|-------------------------------|-------------------------------|---------------------------------|------------------------------|
| Didecyldimethyl ammonium chloride   | Not established               | Not established               | Not established                 | Not established              |
| alkyldimethylbenzylammoniumchloride | Not established               | Not established               | Not established                 | Not established              |

**Irritation and corrosivity**

## Skin irritation and corrosivity

| Ingredient(s)                       | Result    | Species | Method            | Exposure time |
|-------------------------------------|-----------|---------|-------------------|---------------|
| Didecyldimethyl ammonium chloride   | Corrosive | Rabbit  | OECD 404 (EU B.4) |               |
| alkyldimethylbenzylammoniumchloride | Corrosive | Rabbit  | Method not given  |               |

## Eye irritation and corrosivity

| Ingredient(s)                       | Result        | Species | Method           | Exposure time |
|-------------------------------------|---------------|---------|------------------|---------------|
| Didecyldimethyl ammonium chloride   | Severe damage |         |                  |               |
| alkyldimethylbenzylammoniumchloride | Severe damage |         | Method not given |               |

## Respiratory tract irritation and corrosivity

| Ingredient(s)                       | Result            | Species | Method | Exposure time |
|-------------------------------------|-------------------|---------|--------|---------------|
| Didecyldimethyl ammonium chloride   | No data available |         |        |               |
| alkyldimethylbenzylammoniumchloride | No data available |         |        |               |

**Sensitisation**

## Sensitisation by skin contact

| Ingredient(s)                       | Result          | Species    | Method                           | Exposure time (h) |
|-------------------------------------|-----------------|------------|----------------------------------|-------------------|
| Didecyldimethyl ammonium chloride   | Not sensitising | Guinea pig | OECD 406 (EU B.6) / Buehler test |                   |
| alkyldimethylbenzylammoniumchloride | Not sensitising | Guinea pig | OECD 406 (EU B.6) / Buehler test |                   |

## Sensitisation by inhalation

| Ingredient(s)                       | Result            | Species | Method | Exposure time |
|-------------------------------------|-------------------|---------|--------|---------------|
| Didecyldimethyl ammonium chloride   | No data available |         |        |               |
| alkyldimethylbenzylammoniumchloride | No data available |         |        |               |

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

## Mutagenicity

| Ingredient(s)                       | Result (in-vitro)                                  | Method (in-vitro)                       | Result (in-vivo)                                   | Method (in-vivo)   |
|-------------------------------------|--|---|--|--------------------|
| Didecyldimethyl ammonium chloride   | No evidence of genotoxicity, negative test results | OECD 471 (EU B.12/13) OECD 473 OECD 476 | No data available                                  |                    |
| alkyldimethylbenzylammoniumchloride | No evidence of genotoxicity, negative test results | OECD 471 (EU B.12/13) OECD 476 OECD 473 | No evidence of genotoxicity, negative test results | OECD 474 (EU B.12) |

## Carcinogenicity

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| Ingredient(s)                       | Effect            |
|-------------------------------------|-------------------|
| Didecyldimethyl ammonium chloride   | No data available |
| alkyldimethylbenzylammoniumchloride | No data available |

## Toxicity for reproduction

| Ingredient(s)                       | Endpoint | Specific effect | Value (mg/kg bw/d) | Species | Method | Exposure time | Remarks and other effects reported |
|-------------------------------------|----------|-----------------|--------------------|---------|--------|---------------|------------------------------------|
| Didecyldimethyl ammonium chloride   |          |                 | No data available  |         |        |               |                                    |
| alkyldimethylbenzylammoniumchloride |          |                 | No data available  |         |        |               |                                    |

## Repeated dose toxicity

## Sub-acute or sub-chronic oral toxicity

| Ingredient(s)                       | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|-------------------------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| Didecyldimethyl ammonium chloride   |          | No data available  |         |        |                      |                                      |
| alkyldimethylbenzylammoniumchloride |          | No data available  |         |        |                      |                                      |

## Sub-chronic dermal toxicity

| Ingredient(s)                       | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|-------------------------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| Didecyldimethyl ammonium chloride   |          | No data available  |         |        |                      |                                      |
| alkyldimethylbenzylammoniumchloride |          | No data available  |         |        |                      |                                      |

## Sub-chronic inhalation toxicity

| Ingredient(s)                       | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time (days) | Specific effects and organs affected |
|-------------------------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| Didecyldimethyl ammonium chloride   |          | No data available  |         |        |                      |                                      |
| alkyldimethylbenzylammoniumchloride |          | No data available  |         |        |                      |                                      |

## Chronic toxicity

| Ingredient(s)                       | Exposure route | Endpoint | Value (mg/kg bw/d) | Species | Method | Exposure time | Specific effects and organs affected | Remark |
|-------------------------------------|----------------|----------|--------------------|---------|--------|---------------|--------------------------------------|--------|
| Didecyldimethyl ammonium chloride   |                |          | No data available  |         |        |               |                                      |        |
| alkyldimethylbenzylammoniumchloride |                |          | No data available  |         |        |               |                                      |        |

## STOT-single exposure

| Ingredient(s)                       | Affected organ(s) |
|-------------------------------------|-------------------|
| Didecyldimethyl ammonium chloride   | No data available |
| alkyldimethylbenzylammoniumchloride | No data available |

## STOT-repeated exposure

| Ingredient(s)                       | Affected organ(s) |
|-------------------------------------|-------------------|
| Didecyldimethyl ammonium chloride   | No data available |
| alkyldimethylbenzylammoniumchloride | No data available |

## Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

## Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

## 11.2 Information on other hazards

## 11.2.1 Endocrine disrupting properties

Endocrine disrupting properties - Human data, if available:

## 11.2.2 Other information

No other relevant information available.

## SECTION 12: Ecological information

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## 12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

**Aquatic short-term toxicity**

Aquatic short-term toxicity - fish

| Ingredient(s)                       | Endpoint         | Value (mg/l) | Species                  | Method            | Exposure time (h) |
|-------------------------------------|------------------|--------------|--------------------------|-------------------|-------------------|
| Didecyldimethyl ammonium chloride   | LC <sub>50</sub> | 0.97         | <i>Brachydanio rerio</i> | OECD 203 (EU C.1) | 96                |
| alkyldimethylbenzylammoniumchloride | LC <sub>50</sub> | 0.515        | <i>Fish</i>              | Method not given  | 96                |

Aquatic short-term toxicity - crustacea

| Ingredient(s)                       | Endpoint         | Value (mg/l) | Species                     | Method            | Exposure time (h) |
|-------------------------------------|------------------|--------------|-----------------------------|-------------------|-------------------|
| Didecyldimethyl ammonium chloride   | EC <sub>50</sub> | 0.053        | <i>Daphnia magna Straus</i> | OECD 202 (EU C.2) | 48                |
| alkyldimethylbenzylammoniumchloride | EC <sub>50</sub> | 0.016        | <i>Daphnia</i>              | Method not given  | 48                |

Aquatic short-term toxicity - algae

| Ingredient(s)                       | Endpoint         | Value (mg/l) | Species                                | Method            | Exposure time (h) |
|-------------------------------------|------------------|--------------|--|-------------------|-------------------|
| Didecyldimethyl ammonium chloride   | EC <sub>50</sub> | 0.053        | <i>Pseudokirchneriella subcapitata</i> | OECD 201 (EU C.3) | 72                |
| alkyldimethylbenzylammoniumchloride | EC <sub>50</sub> | 0.02         | <i>Selenastrum capricornutum</i>       | OECD 201 (EU C.3) | 72                |

Aquatic short-term toxicity - marine species

| Ingredient(s)                       | Endpoint | Value (mg/l)      | Species | Method | Exposure time (days) |
|-------------------------------------|----------|-------------------|---------|--------|----------------------|
| Didecyldimethyl ammonium chloride   |          | No data available |         |        |                      |
| alkyldimethylbenzylammoniumchloride |          | No data available |         |        |                      |

Impact on sewage plants - toxicity to bacteria

| Ingredient(s)                       | Endpoint         | Value (mg/l)      | Inoculum                | Method   | Exposure time |
|-------------------------------------|------------------|-------------------|-------------------------|----------|---------------|
| Didecyldimethyl ammonium chloride   |                  | No data available |                         |          |               |
| alkyldimethylbenzylammoniumchloride | EC <sub>20</sub> | 5                 | <i>Activated sludge</i> | OECD 209 | 0.5 hour(s)   |

**Aquatic long-term toxicity**

Aquatic long-term toxicity - fish

| Ingredient(s)                       | Endpoint | Value (mg/l)      | Species | Method | Exposure time | Effects observed |
|-------------------------------------|----------|-------------------|---------|--------|---------------|------------------|
| Didecyldimethyl ammonium chloride   |          | No data available |         |        |               |                  |
| alkyldimethylbenzylammoniumchloride |          | No data available |         |        |               |                  |

Aquatic long-term toxicity - crustacea

| Ingredient(s)                       | Endpoint | Value (mg/l) | Species              | Method   | Exposure time | Effects observed |
|-------------------------------------|----------|--------------|----------------------|----------|---------------|------------------|
| Didecyldimethyl ammonium chloride   | NOEC     | > 0.01-0.1   | <i>Daphnia magna</i> | OECD 211 | 21 day(s)     |                  |
| alkyldimethylbenzylammoniumchloride | NOEC     | 0.025        | <i>Daphnia magna</i> | OECD 211 | 21 day(s)     |                  |

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

| Ingredient(s)                       | Endpoint | Value (mg/kg dw sediment) | Species | Method | Exposure time (days) | Effects observed |
|-------------------------------------|----------|---------------------------|---------|--------|----------------------|------------------|
| Didecyldimethyl ammonium chloride   |          | No data available         |         |        |                      |                  |
| alkyldimethylbenzylammoniumchloride |          | No data available         |         |        |                      |                  |

**Terrestrial toxicity**

Terrestrial toxicity - soil invertebrates, including earthworms, if available:



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| Ingredient(s)                       | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|-------------------------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| Didecyldimethyl ammonium chloride   |          | No data available     |         |        |                      |                  |
| alkyldimethylbenzylammoniumchloride |          | No data available     |         |        |                      |                  |

Terrestrial toxicity - plants, if available:

| Ingredient(s)                       | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|-------------------------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| Didecyldimethyl ammonium chloride   |          | No data available     |         |        |                      |                  |
| alkyldimethylbenzylammoniumchloride |          | No data available     |         |        |                      |                  |

Terrestrial toxicity - birds, if available:

| Ingredient(s)                       | Endpoint | Value             | Species | Method | Exposure time (days) | Effects observed |
|-------------------------------------|----------|-------------------|---------|--------|----------------------|------------------|
| Didecyldimethyl ammonium chloride   |          | No data available |         |        |                      |                  |
| alkyldimethylbenzylammoniumchloride |          | No data available |         |        |                      |                  |

Terrestrial toxicity - beneficial insects, if available:

| Ingredient(s)                       | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|-------------------------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| Didecyldimethyl ammonium chloride   |          | No data available     |         |        |                      |                  |
| alkyldimethylbenzylammoniumchloride |          | No data available     |         |        |                      |                  |

Terrestrial toxicity - soil bacteria, if available:

| Ingredient(s)                       | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|-------------------------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| Didecyldimethyl ammonium chloride   |          | No data available     |         |        |                      |                  |
| alkyldimethylbenzylammoniumchloride |          | No data available     |         |        |                      |                  |

**12.2 Persistence and degradability****Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

| Ingredient(s)                       | Half-life time    | Method | Evaluation | Remark |
|-------------------------------------|-------------------|--------|------------|--------|
| Didecyldimethyl ammonium chloride   | No data available |        |            |        |
| alkyldimethylbenzylammoniumchloride | No data available |        |            |        |

Abiotic degradation - hydrolysis, if available:

| Ingredient(s)                       | Half-life time in fresh water | Method | Evaluation | Remark |
|-------------------------------------|-------------------------------|--------|------------|--------|
| Didecyldimethyl ammonium chloride   | No data available             |        |            |        |
| alkyldimethylbenzylammoniumchloride | No data available             |        |            |        |

Abiotic degradation - other processes, if available:

| Ingredient(s)                       | Type | Half-life time    | Method | Evaluation | Remark |
|-------------------------------------|------|-------------------|--------|------------|--------|
| Didecyldimethyl ammonium chloride   |      | No data available |        |            |        |
| alkyldimethylbenzylammoniumchloride |      | No data available |        |            |        |

**Biodegradation**

Ready biodegradability - aerobic conditions

| Ingredient(s)                       | Inoculum | Analytical method | DT <sub>50</sub> | Method      | Evaluation            |
|-------------------------------------|----------|-------------------|------------------|-------------|-----------------------|
| Didecyldimethyl ammonium chloride   |          | Oxygen depletion  | > 60%            | OECD 301D   | Readily biodegradable |
| alkyldimethylbenzylammoniumchloride |          | Oxygen depletion  | > 60%            | Read across | Readily biodegradable |

Ready biodegradability - anaerobic and marine conditions, if available:

| Ingredient(s) | Medium & Type | Analytical | DT <sub>50</sub> | Method | Evaluation |
|---------------|---------------|------------|------------------|--------|------------|
|---------------|---------------|------------|------------------|--------|------------|

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|                                     | method |  |  |                   |
|-------------------------------------|--------|--|--|-------------------|
| Didecyldimethyl ammonium chloride   |        |  |  | No data available |
| alkyldimethylbenzylammoniumchloride |        |  |  | No data available |

Degradation in relevant environmental compartments, if available:

| Ingredient(s)                       | Medium & Type | Analytical method | DT <sub>50</sub> | Method | Evaluation        |
|-------------------------------------|---------------|-------------------|------------------|--------|-------------------|
| Didecyldimethyl ammonium chloride   |               |                   |                  |        | No data available |
| alkyldimethylbenzylammoniumchloride |               |                   |                  |        | No data available |

### 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log K<sub>ow</sub>)

| Ingredient(s)                       | Value             | Method           | Evaluation                  | Remark   |
|-------------------------------------|-------------------|------------------|-----------------------------|----------|
| Didecyldimethyl ammonium chloride   | No data available |                  |                             |          |
| alkyldimethylbenzylammoniumchloride | 0.004             | Method not given | No bioaccumulation expected | at 20 °C |

Bioconcentration factor (BCF)

| Ingredient(s)                       | Value | Species                    | Method           | Evaluation                        | Remark |
|-------------------------------------|-------|----------------------------|------------------|-----------------------------------|--------|
| Didecyldimethyl ammonium chloride   | 2.1   |                            | Method not given | No bioaccumulation expected       |        |
| alkyldimethylbenzylammoniumchloride | 79    | <i>Lepomis macrochirus</i> |                  | Low potential for bioaccumulation |        |

### 12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

| Ingredient(s)                       | Adsorption coefficient Log K <sub>oc</sub> | Desorption coefficient Log K <sub>oc</sub> (des) | Method | Soil/sediment type | Evaluation |
|-------------------------------------|--|--|--------|--------------------|------------|
| Didecyldimethyl ammonium chloride   | No data available                          |  |        |                    |            |
| alkyldimethylbenzylammoniumchloride | No data available                          |  |        |                    |            |

### 12.5 Results of PBT and vPvB assessment

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

### 12.6 Endocrine disrupting properties

Endocrine disrupting properties - Environmental effects, if available:

### 12.7 Other adverse effects

No other adverse effects known.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Waste from residues / unused products:**

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

**European Waste Catalogue:**

20 01 29\* - detergents containing dangerous substances.

**Empty packaging**

**Recommendation:**

Dispose of observing national or local regulations.

**Suitable cleaning agents:**

Water, if necessary with cleaning agent.

## SECTION 14: Transport information



**Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)**

**14.1 UN number or ID number:** 3082

**14.2 UN proper shipping name:**

Environmentally hazardous substance, liquid, n.o.s. ( alkyldimethylbenzylammoniumchloride )

**14.3 Transport hazard class(es):**

Transport hazard class (and subsidiary risks): 9

**14.4 Packing group:** III

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**14.5 Environmental hazards:**

**Environmentally hazardous:** Yes

**Marine pollutant:** Yes

**14.6 Special precautions for user:** None known.

**14.7 Maritime transport in bulk according to IMO instruments:** The product is not transported in bulk tankers.

**Other relevant information:****ADR**

**Classification code:** M6

**Tunnel restriction code:** (-)

**Hazard identification number:** 90

**IMO/IMDG**

**EmS:** F-A, S-F

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code. Transport regulations include special provisions for dangerous goods packed in small quantities classified under UN3077 or UN3082.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations :**

- Regulation (EC) 1907/2006 - REACH (UK amended)
- Regulation (EC) 1272/2008 - CLP (UK amended)
- Regulation (EC) 648/2004 - Detergents regulation (UK amended)
- Biocidal Products Regulations 2001 (SI 2001/880)
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code

**Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII):** Not applicable.

**Ingredients according to Detergents Regulation**

non-ionic surfactants

< 5%

disinfectants, perfumes

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents (UK amended). Data to support this assertion are held at the disposal of the competent authorities of the UK and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**Comah - classification:** Not classified

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out on the mixture

**SECTION 16: Other information**

*The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract*

**SDS code:** MS1001662

**Version:** 01.2

**Revision:** 2023-03-14

**Reason for revision:**

Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006

**Classification procedure**

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

**Abbreviations and acronyms:**

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- DNEL - Derived No Effect Limit
- EUH - CLP Specific hazard statement
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- ATE - Acute Toxicity Estimate

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- H302 - Harmful if swallowed.
- H312 - Harmful in contact with skin.
- H314 - Causes severe skin burns and eye damage.
- H318 - Causes serious eye damage.
- 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.

**End of Safety Data Sheet**