

## Room Care R2-Plus

Revision: 2015-03-14

Version: 02.0

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

#### 1.1 Product identifier

**Trade name:** Room Care R2-Plus

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

##### Identified uses:

For professional use only.

AISE-P301 - General purpose cleaner. Manual process

AISE-P302 - General purpose cleaner. Spray and wipe manual process

AISE-P314 - Surface disinfectant. Manual process

AISE-P315 - Surface disinfectant. Spray and rinse manual process

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

#### 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: MSDSinfoUK@sealedair.com

#### 1.4 Emergency telephone number

For medical or environmental emergency only:

call 0800 052 0185

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

The product has been classified and labelled in accordance with Regulation (EC) No 1272/2008.

Skin Irrit. 2 (H315)

Eye Dam. 1 (H318)

Aquatic Acute 1 (H400)

Aquatic Chronic 1 (H410)

#### Classification in accordance with Directive 1999/45/EC and corresponding national legislation

##### Indication of danger

Xi - Irritant

N - Dangerous for the environment

##### Risk phrases:

R38 - Irritating to skin.

R41 - Risk of serious damage to eyes.

R50 - Very toxic to aquatic organisms.

#### 2.2 Label elements



**Signal word:** Danger

Contains alkyl alcohol ethoxylate (Trideceth-8), didecyldimethylammonium chloride (Didecyldimonium Chloride), alkyl dimethylbenzylammonium chloride (Cocoalkonium Chloride), alkyl alcohol ethoxylate (Trideceth-3).

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**Hazard statements:**

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

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

**Precautionary statements:**

P280 - Wear eye or 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.

P310 - Immediately call a POISON CENTRE, doctor or physician.

**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**

| Ingredient(s)                        | EC number | CAS number | REACH number      | Classification   | Classification (1999/45/EC) | Notes | Weight percent |
|--------------------------------------|-----------|------------|-------------------|--|-----------------------------|-------|----------------|
| alkyl alcohol ethoxylate             | Polymer*  | 69011-36-5 | [4]               | Acute Tox. 4 (H302)<br>Eye Dam. 1 (H318)   | Xn;R22<br>Xi;R41            |       | 10-20          |
| didecyltrimethylammonium 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)                        | Xn;R22<br>C;R34<br>N;R50    |       | 3-10           |
| alkyldimethylbenzylammonium chloride | 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) | Xn;R21/22<br>C;R34<br>N;R50 |       | 3-10           |
| alkyl alcohol ethoxylate             | 931-138-8 | 69011-36-5 | [4]               | Eye Dam. 1 (H318)  | Xi;R41                      |       | 1-3            |
| sodium carbonate                     | 207-838-8 | 497-19-8   | 01-2119485498-19  | Eye Irrit. 2 (H319)  | Xi;R36                      |       | 1-3            |
| propan-2-ol                          | 200-661-7 | 67-63-0    | 01-2119457558-25  | Flam. Liq. 2 (H225)<br>STOT SE 3 (H336)<br>Eye Irrit. 2 (H319)   | F;R11<br>Xi;R36<br>R67      |       | 1-3            |
| 2-tert-butylcyclohexyl acetate       | 201-828-7 | 88-41-5    | No data available | Aquatic Chronic 2 (H411)   | N;R51/53                    |       | 0.1-1          |
| tridec-2-enenitrile                  | 245-142-6 | 22629-49-8 | No data available | Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410)   | N;R50/53                    |       | < 0.01         |

\* Polymer.

For the full text of the R, 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.

**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. Take off immediately all contaminated clothing and wash it before re-use. 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. Immediately call a POISON CENTRE, doctor or physician.

**Ingestion:**

Rinse mouth. 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:**

Causes irritation.

**Eye contact:**

Causes severe or permanent damage.

**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.

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**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**

Wear eye/face protection.

**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, sawdust).

**6.4 Reference to other sections**

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 Sealed Air. 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. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with eyes. 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 container. 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:

| Ingredient(s) | UK - Long term value(s)          | UK - Short term value(s)          |
|---------------|----------------------------------|-----------------------------------|
| propan-2-ol   | 400 ppm<br>999 mg/m <sup>3</sup> | 500 ppm<br>1250 mg/m <sup>3</sup> |

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 oral exposure - Consumer (mg/kg bw)

| Ingredient(s)                       | Short term - Local effects | Short term - Systemic effects | Long term - Local effects | Long term - Systemic effects |
|-------------------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| alkyl alcohol ethoxylate            | No data available          | No data available             | No data available         | No data available            |
| didecyldimethylammonium chloride    | No data available          | No data available             | No data available         | No data available            |
| alkyldimethylbenzylammoniumchloride | No data available          | No data available             | No data available         | No data available            |
| alkyl alcohol ethoxylate            | No data available          | No data available             | No data available         | No data available            |
| sodium carbonate                    | -                          | -                             | -                         | -                            |

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|                                |                   |                   |                   |                   |
|--------------------------------|-------------------|-------------------|-------------------|-------------------|
| propan-2-ol                    | -                 | -                 | -                 | 26                |
| 2-tert-butylcyclohexyl acetate | No data available | No data available | No data available | No data available |
| tridec-2-enenitrile            | No data available | No data available | No data available | No data available |

## DNEL 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) |
|-------------------------------------|----------------------------|--|---------------------------|---|
| alkyl alcohol ethoxylate            | No data available          | No data available                        | No data available         | No data available                       |
| didecyldimethylammonium chloride    | No data available          | No data available                        | No data available         | No data available                       |
| alkyldimethylbenzylammoniumchloride | No data available          | No data available                        | No data available         | No data available                       |
| alkyl alcohol ethoxylate            | No data available          | No data available                        | No data available         | No data available                       |
| sodium carbonate                    | No data available          | -  | No data available         | -                                       |
| propan-2-ol                         | No data available          | -  | No data available         | 888                                     |
| 2-tert-butylcyclohexyl acetate      | No data available          | No data available                        | No data available         | No data available                       |
| tridec-2-enenitrile                 | No data available          | No data available                        | No data available         | No data available                       |

## DNEL 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) |
|-------------------------------------|----------------------------|--|---------------------------|---|
| alkyl alcohol ethoxylate            | No data available          | No data available                        | No data available         | No data available                       |
| didecyldimethylammonium chloride    | No data available          | No data available                        | No data available         | No data available                       |
| alkyldimethylbenzylammoniumchloride | No data available          | No data available                        | No data available         | No data available                       |
| alkyl alcohol ethoxylate            | No data available          | No data available                        | No data available         | No data available                       |
| sodium carbonate                    | No data available          | -  | No data available         | -                                       |
| propan-2-ol                         | No data available          | -  | No data available         | 319                                     |
| 2-tert-butylcyclohexyl acetate      | No data available          | No data available                        | No data available         | No data available                       |
| tridec-2-enenitrile                 | No data available          | No data available                        | No data available         | No data available                       |

DNEL 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 |
|-------------------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| alkyl alcohol ethoxylate            | No data available          | No data available             | No data available         | No data available            |
| didecyldimethylammonium chloride    | No data available          | No data available             | No data available         | No data available            |
| alkyldimethylbenzylammoniumchloride | No data available          | No data available             | No data available         | No data available            |
| alkyl alcohol ethoxylate            | No data available          | No data available             | No data available         | No data available            |
| sodium carbonate                    | -                          | -                             | 10                        | -                            |
| propan-2-ol                         | -                          | -                             | -                         | 500                          |
| 2-tert-butylcyclohexyl acetate      | No data available          | No data available             | No data available         | No data available            |
| tridec-2-enenitrile                 | No data available          | No data available             | No data available         | No data available            |

DNEL 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 |
|-------------------------------------|----------------------------|-------------------------------|---------------------------|------------------------------|
| alkyl alcohol ethoxylate            | No data available          | No data available             | No data available         | No data available            |
| didecyldimethylammonium chloride    | No data available          | No data available             | No data available         | No data available            |
| alkyldimethylbenzylammoniumchloride | No data available          | No data available             | No data available         | No data available            |
| alkyl alcohol ethoxylate            | No data available          | No data available             | No data available         | No data available            |
| sodium carbonate                    | 10                         | -                             | -                         | -                            |
| propan-2-ol                         | -                          | -                             | -                         | 89                           |
| 2-tert-butylcyclohexyl acetate      | No data available          | No data available             | No data available         | No data available            |
| tridec-2-enenitrile                 | No data available          | No data available             | No data available         | No data available            |

## Environmental exposure

## Environmental exposure - PNEC

| Ingredient(s)                       | Surface water, fresh (mg/l) | Surface water, marine (mg/l) | Intermittent (mg/l) | Sewage treatment plant (mg/l) |
|-------------------------------------|-----------------------------|------------------------------|---------------------|-------------------------------|
| alkyl alcohol ethoxylate            | No data available           | No data available            | No data available   | No data available             |
| didecyldimethylammonium chloride    | No data available           | No data available            | No data available   | No data available             |
| alkyldimethylbenzylammoniumchloride | No data available           | No data available            | No data available   | No data available             |
| alkyl alcohol ethoxylate            | No data available           | No data available            | No data available   | No data available             |
| sodium carbonate                    | -                           | -                            | -                   | -                             |
| propan-2-ol                         | 140.9                       | 140.9                        | 140.9               | 2251                          |
| 2-tert-butylcyclohexyl acetate      | No data available           | No data available            | No data available   | No data available             |
| tridec-2-enenitrile                 | No data available           | No data available            | No data available   | No data available             |

## Environmental exposure - PNEC, continued

| Ingredient(s)                       | Sediment, freshwater (mg/kg) | Sediment, marine (mg/kg) | Soil (mg/kg)      | Air (mg/m <sup>3</sup> ) |
|-------------------------------------|------------------------------|--------------------------|-------------------|--------------------------|
| alkyl alcohol ethoxylate            | No data available            | No data available        | No data available | No data available        |
| didecyldimethylammonium chloride    | No data available            | No data available        | No data available | No data available        |
| alkyldimethylbenzylammoniumchloride | No data available            | No data available        | No data available | No data available        |
| alkyl alcohol ethoxylate            | No data available            | No data available        | No data available | No data available        |
| sodium carbonate                    | -                            | -                        | -                 | -                        |

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|                                |                   |                   |                   |                   |
|--------------------------------|-------------------|-------------------|-------------------|-------------------|
| propan-2-ol                    | 552               | 552               | 28                | -                 |
| 2-tert-butylcyclohexyl acetate | No data available | No data available | No data available | No data available |
| tridec-2-enenitrile            | No data available | No data available | No data available | No data available |

**8.2 Exposure controls**

The following information applies for the uses indicated in subsection 1.2.  
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:  
Covering activities such as filling and transfer of product to application equipment, flasks or buckets

**Appropriate engineering controls:** If the product is diluted by using specific dosing systems with no risk of splashes or direct skin contact, the personal protection equipment as described in this section is not required.  
**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

**Personal protective equipment****Eye / face protection:**

Safety glasses or goggles (EN 166).

**Hand protection:**

Chemical-resistant protective gloves (EN 374).

Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier.

Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.

Suggested gloves for prolonged contact:

Material: butyl rubber

Penetration time:  $\geq$  480 minMaterial thickness:  $\geq$  0.7 mm

Suggested gloves for protection against splashes:

Material: nitrile rubber

Penetration time:  $\geq$  30 minMaterial thickness:  $\geq$  0.4 mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

**Body protection:**

No special requirements under normal use conditions.

**Respiratory protection:**

No special requirements under normal use conditions.

**Environmental exposure controls:**

Should not reach sewage water or drainage ditch undiluted or unneutralised.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (%): 10

**Appropriate engineering controls:**

Use only in well ventilated areas.

**Appropriate organisational controls:**

Avoid direct contact and/or splashes where possible. Train personnel.

**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.

**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:**

No special requirements under normal use conditions.

**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**pH:**  $\approx$  11 (neat)**Melting point/freezing point (°C):** Not determined**Initial boiling point and boiling range (°C):** Not determined

Substance data, boiling point

| Ingredient(s)            | Value (°C) | Method           | Atmospheric pressure (hPa) |
|--------------------------|------------|------------------|----------------------------|
| alkyl alcohol ethoxylate | > 200      | Method not given |                            |

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|                                     |                   |                  |      |
|-------------------------------------|-------------------|------------------|------|
| didecyldimethylammonium chloride    | No data available |                  |      |
| alkyldimethylbenzylammoniumchloride | > 107             | Method not given |      |
| alkyl alcohol ethoxylate            | No data available |                  |      |
| sodium carbonate                    | 1600              | Method not given | 1013 |
| propan-2-ol                         | 82                | Method not given | 1013 |
| 2-tert-butylcyclohexyl acetate      | No data available |                  |      |
| tridec-2-enenitrile                 | No data available |                  |      |

## Method / remark

**Flash point (°C):** Not applicable.

**Sustained combustion:** Not determined

**Evaporation rate:** Not determined

**Flammability (solid, gas):** Not determined

**Upper/lower flammability limit (%):** Not determined

Substance data, flammability or explosive limits, if available:

| Ingredient(s) | Lower limit (% vol) | Upper limit (% vol) |
|---------------|---------------------|---------------------|
| propan-2-ol   | 2                   | 13                  |

## Method / remark

**Vapour pressure:** Not determined

Substance data, vapour pressure

| Ingredient(s)                       | Value (Pa)        | Method           | Temperature (°C) |
|-------------------------------------|-------------------|------------------|------------------|
| alkyl alcohol ethoxylate            | Negligible        | Method not given | 20-25            |
| didecyldimethylammonium chloride    | No data available |                  |                  |
| alkyldimethylbenzylammoniumchloride | No data available | Method not given | 20               |
| alkyl alcohol ethoxylate            | No data available |                  |                  |
| sodium carbonate                    | Negligible        |                  |                  |
| propan-2-ol                         | 4200              | Method not given | 20               |
| 2-tert-butylcyclohexyl acetate      | No data available |                  |                  |
| tridec-2-enenitrile                 | No data available |                  |                  |

## Method / remark

**Vapour density:** Not determined

**Relative density:** 1.03 g/cm<sup>3</sup> (20 °C)

**Solubility in / Miscibility with Water:** Fully miscible

Substance data, solubility in water

| Ingredient(s)                       | Value (g/l)       | Method           | Temperature (°C) |
|-------------------------------------|-------------------|------------------|------------------|
| alkyl alcohol ethoxylate            | Soluble           | Method not given | 20               |
| didecyldimethylammonium chloride    | No data available |                  |                  |
| alkyldimethylbenzylammoniumchloride | Soluble           | Method not given |                  |
| alkyl alcohol ethoxylate            | Partly soluble    | Method not given | 20               |
| sodium carbonate                    | 210-215           | Method not given | 20               |
| propan-2-ol                         | Soluble           | Method not given |                  |
| 2-tert-butylcyclohexyl acetate      | No data available |                  |                  |
| tridec-2-enenitrile                 | No data available |                  |                  |

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

## Method / remark

**Autoignition temperature:** Not determined

**Decomposition temperature:** Not determined

**Viscosity:** ≈ 40 mPa.s (20 °C)

**Explosive properties:** Not explosive.

**Oxidising properties:** Not oxidising

## 9.2 Other information

**Surface tension (N/m):** Not determined

**Corrosion to metals:** Not corrosive

Substance data, dissociation constant, if 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.

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**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 toxicological effects**

Mixture data:

**Relevant calculated ATE(s):**

ATE - Oral (mg/kg): >2000

ATE - Dermal (mg/kg): >2000

**Skin irritation and corrosivity**

**Result:** Skin irritant 2

**Method:** Bridging

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

**Acute toxicity**

Acute oral toxicity

| Ingredient(s)                       | Endpoint         | Value (mg/kg)     | Species | Method                 | Exposure time (h) |
|-------------------------------------|------------------|-------------------|---------|------------------------|-------------------|
| alkyl alcohol ethoxylate            | LD <sub>50</sub> | > 300 - 2000      | Rat     | OECD 423 (EU B.1 tris) |                   |
| didecyltrimethylammonium chloride   | LD <sub>50</sub> | 300 - 2000        | Rat     | OECD 401 (EU B.1)      |                   |
| alkyldimethylbenzylammoniumchloride | LD <sub>50</sub> | 398               | Rat     | Method not given       |                   |
| alkyl alcohol ethoxylate            | LD <sub>50</sub> | > 300             | Rat     |                        |                   |
| sodium carbonate                    | LD <sub>50</sub> | 2800              | Rat     | Method not given       | -                 |
| propan-2-ol                         | LD <sub>50</sub> | 3570              | Rat     | Method not given       | -                 |
| 2-tert-butylcyclohexyl acetate      |                  | No data available |         |                        |                   |
| tridec-2-enenitrile                 |                  | No data available |         |                        |                   |

Acute dermal toxicity

| Ingredient(s)                       | Endpoint         | Value (mg/kg)     | Species | Method           | Exposure time (h) |
|-------------------------------------|------------------|-------------------|---------|------------------|-------------------|
| alkyl alcohol ethoxylate            | LD <sub>50</sub> | > 2000            | Rabbit  | Method not given |                   |
| didecyltrimethylammonium chloride   |                  | No data available |         |                  |                   |
| alkyldimethylbenzylammoniumchloride | LD <sub>50</sub> | 800 - 1420        | Rat     | Method not given |                   |
| alkyl alcohol ethoxylate            | LD <sub>50</sub> | > 2000            | Rat     |                  |                   |
| sodium carbonate                    | LD <sub>50</sub> | > 2000            | Rabbit  | Method not given | -                 |
| propan-2-ol                         | LD <sub>50</sub> | > 2000            | Rabbit  | Method not given | -                 |
| 2-tert-butylcyclohexyl acetate      |                  | No data available |         |                  |                   |
| tridec-2-enenitrile                 |                  | No data available |         |                  |                   |

Acute inhalative toxicity

| Ingredient(s)                       | Endpoint         | Value (mg/l)      | Species | Method            | Exposure time (h) |
|-------------------------------------|------------------|-------------------|---------|-------------------|-------------------|
| alkyl alcohol ethoxylate            |                  | No data available |         |                   |                   |
| didecyltrimethylammonium chloride   |                  | No data available |         |                   |                   |
| alkyldimethylbenzylammoniumchloride |                  | No data available |         |                   |                   |
| alkyl alcohol ethoxylate            |                  | No data available |         |                   |                   |
| sodium carbonate                    | LC <sub>50</sub> | 2.3 (dust)        | Rat     | OECD 403 (EU B.2) | 2                 |
| propan-2-ol                         | LC <sub>50</sub> | > 25 (vapour)     | Rat     | OECD 403 (EU B.2) | 6                 |
| 2-tert-butylcyclohexyl acetate      |                  | No data available |         |                   |                   |
| tridec-2-enenitrile                 |                  | No data available |         |                   |                   |

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**Irritation and corrosivity**

## Skin irritation and corrosivity

| Ingredient(s)                       | Result            | Species | Method            | Exposure time |
|-------------------------------------|-------------------|---------|-------------------|---------------|
| alkyl alcohol ethoxylate            | Not irritant      | Rabbit  | OECD 404 (EU B.4) |               |
| didecyldimethylammonium chloride    | Corrosive         | Rabbit  | OECD 404 (EU B.4) |               |
| alkyldimethylbenzylammoniumchloride | Corrosive         |         | Method not given  |               |
| alkyl alcohol ethoxylate            | Irritant          | Rabbit  | Draize test       |               |
| sodium carbonate                    | Not irritant      | Rabbit  | Method not given  |               |
| propan-2-ol                         | Not irritant      | Rabbit  | OECD 404 (EU B.4) |               |
| 2-tert-butylcyclohexyl acetate      | No data available |         |                   |               |
| tridec-2-enenitrile                 | No data available |         |                   |               |

## Eye irritation and corrosivity

| Ingredient(s)                       | Result            | Species | Method            | Exposure time |
|-------------------------------------|-------------------|---------|-------------------|---------------|
| alkyl alcohol ethoxylate            | Severe damage     | Rabbit  | Method not given  |               |
| didecyldimethylammonium chloride    | No data available |         |                   |               |
| alkyldimethylbenzylammoniumchloride | Severe damage     |         | Method not given  |               |
| alkyl alcohol ethoxylate            | Severe damage     | Rabbit  | Method not given  |               |
| sodium carbonate                    | Irritant          | Rabbit  | Method not given  |               |
| propan-2-ol                         | Irritant          | Rabbit  | OECD 405 (EU B.5) |               |
| 2-tert-butylcyclohexyl acetate      | No data available |         |                   |               |
| tridec-2-enenitrile                 | No data available |         |                   |               |

## Respiratory tract irritation and corrosivity

| Ingredient(s)                       | Result            | Species | Method | Exposure time |
|-------------------------------------|-------------------|---------|--------|---------------|
| alkyl alcohol ethoxylate            | No data available |         |        |               |
| didecyldimethylammonium chloride    | No data available |         |        |               |
| alkyldimethylbenzylammoniumchloride | No data available |         |        |               |
| alkyl alcohol ethoxylate            | No data available |         |        |               |
| sodium carbonate                    | No data available |         |        |               |
| propan-2-ol                         | No data available |         |        |               |
| 2-tert-butylcyclohexyl acetate      | No data available |         |        |               |
| tridec-2-enenitrile                 | No data available |         |        |               |

**Sensitisation**

## Sensitisation by skin contact

| Ingredient(s)                       | Result            | Species    | Method                           | Exposure time (h) |
|-------------------------------------|-------------------|------------|----------------------------------|-------------------|
| alkyl alcohol ethoxylate            | Not sensitising   | Guinea pig | Method not given                 |                   |
| didecyldimethylammonium chloride    | No data available |            |                                  |                   |
| alkyldimethylbenzylammoniumchloride | Not sensitising   |            | Method not given                 |                   |
| alkyl alcohol ethoxylate            | Not sensitising   | Guinea pig |                                  |                   |
| sodium carbonate                    | Not sensitising   |            | Method not given                 | -                 |
| propan-2-ol                         | Not sensitising   | Guinea pig | OECD 406 (EU B.6) / Buehler test | -                 |
| 2-tert-butylcyclohexyl acetate      | No data available |            |                                  |                   |
| tridec-2-enenitrile                 | No data available |            |                                  |                   |

## Sensitisation by inhalation

| Ingredient(s)                       | Result            | Species | Method | Exposure time |
|-------------------------------------|-------------------|---------|--------|---------------|
| alkyl alcohol ethoxylate            | No data available |         |        |               |
| didecyldimethylammonium chloride    | No data available |         |        |               |
| alkyldimethylbenzylammoniumchloride | No data available |         |        |               |
| alkyl alcohol ethoxylate            | No data available |         |        |               |
| sodium carbonate                    | No data available |         |        | -             |
| propan-2-ol                         | No data available |         |        | -             |
| 2-tert-butylcyclohexyl acetate      | No data available |         |        |               |
| tridec-2-enenitrile                 | 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) |
|-------------------------------------|---|-----------------------|--|------------------|
| alkyl alcohol ethoxylate            | No evidence of genotoxicity, negative test results  | Method not given      | No evidence of genotoxicity, negative test results | Method not given |
| didecyldimethylammonium chloride    | No data available                                   |                       | No data available                                  |                  |
| alkyldimethylbenzylammoniumchloride | No evidence for mutagenicity, negative test results | OECD 471 (EU B.12/13) | No data available                                  |                  |
| alkyl alcohol ethoxylate            | No evidence for mutagenicity                        | OECD 471 (EU B.12/13) | No data available                                  |                  |
| sodium carbonate                    | No data available                                   |                       | No data available                                  |                  |
| propan-2-ol                         | No evidence for mutagenicity, negative              | OECD 471 (EU          | No data available                                  |                  |



## Room Care R2-Plus

|                                |                   |          |                   |  |
|--------------------------------|-------------------|----------|-------------------|--|
|                                | test results      | B.12/13) |                   |  |
| 2-tert-butylcyclohexyl acetate | No data available |          | No data available |  |
| tridec-2-enenitrile            | No data available |          | No data available |  |

## Carcinogenicity

| Ingredient(s)                       | Effect  |
|-------------------------------------|---|
| alkyl alcohol ethoxylate            | No evidence for carcinogenicity, weight-of-evidence |
| didecyldimethylammonium chloride    | No data available                                   |
| alkyldimethylbenzylammoniumchloride | No data available                                   |
| alkyl alcohol ethoxylate            | No data available                                   |
| sodium carbonate                    | No evidence for carcinogenicity, weight-of-evidence |
| propan-2-ol                         | No data available                                   |
| 2-tert-butylcyclohexyl acetate      | No data available                                   |
| tridec-2-enenitrile                 | 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 |
|-------------------------------------|----------|---------------------|--------------------|---------|-----------|---------------|------------------------------------|
| alkyl alcohol ethoxylate            | NOAEL    | Teratogenic effects | > 50               | Rat     | Not known |               |                                    |
| didecyldimethylammonium chloride    |          |                     | No data available  |         |           |               |                                    |
| alkyldimethylbenzylammoniumchloride |          |                     | No data available  |         |           |               |                                    |
| alkyl alcohol ethoxylate            |          |                     | No data available  |         |           |               |                                    |
| sodium carbonate                    |          |                     | No data available  |         |           |               |                                    |
| propan-2-ol                         |          |                     | No data available  |         |           |               |                                    |
| 2-tert-butylcyclohexyl acetate      |          |                     | No data available  |         |           |               |                                    |
| tridec-2-enenitrile                 |          |                     | 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 |
|-------------------------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| alkyl alcohol ethoxylate            |          | No data available  |         |        |                      |                                      |
| didecyldimethylammonium chloride    |          | No data available  |         |        |                      |                                      |
| alkyldimethylbenzylammoniumchloride |          | No data available  |         |        |                      |                                      |
| alkyl alcohol ethoxylate            |          | No data available  |         |        |                      |                                      |
| sodium carbonate                    |          | No data available  |         |        | -                    |                                      |
| propan-2-ol                         |          | No data available  |         |        | -                    |                                      |
| 2-tert-butylcyclohexyl acetate      |          | No data available  |         |        |                      |                                      |
| tridec-2-enenitrile                 |          | 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 |
|-------------------------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| alkyl alcohol ethoxylate            |          | No data available  |         |        |                      |                                      |
| didecyldimethylammonium chloride    |          | No data available  |         |        |                      |                                      |
| alkyldimethylbenzylammoniumchloride |          | No data available  |         |        |                      |                                      |
| alkyl alcohol ethoxylate            |          | No data available  |         |        |                      |                                      |
| sodium carbonate                    |          | No data available  |         |        | -                    |                                      |
| propan-2-ol                         |          | No data available  |         |        | -                    |                                      |
| 2-tert-butylcyclohexyl acetate      |          | No data available  |         |        |                      |                                      |
| tridec-2-enenitrile                 |          | 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 |
|----------------------------------|----------|--------------------|---------|--------|----------------------|--------------------------------------|
| alkyl alcohol ethoxylate         |          | No data available  |         |        |                      |                                      |
| didecyldimethylammonium chloride |          | No data available  |         |        |                      |                                      |

## Room Care R2-Plus

|                                     |  |                   |  |  |   |  |
|-------------------------------------|--|-------------------|--|--|---|--|
|                                     |  | available         |  |  |   |  |
| alkyldimethylbenzylammoniumchloride |  | No data available |  |  |   |  |
| alkyl alcohol ethoxylate            |  | No data available |  |  |   |  |
| sodium carbonate                    |  | No data available |  |  | - |  |
| propan-2-ol                         |  | No data available |  |  | - |  |
| 2-tert-butylcyclohexyl acetate      |  | No data available |  |  |   |  |
| tridec-2-enenitrile                 |  | 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 |
|-------------------------------------|----------------|----------|--------------------|---------|------------------|---------------|--------------------------------------|--------|
| alkyl alcohol ethoxylate            | Oral           | NOAEL    | 50                 | Rat     | Method not given | 24 month(s)   |                                      |        |
| didecyldimethylammonium chloride    |                |          | No data available  |         |                  |               |                                      |        |
| alkyldimethylbenzylammoniumchloride |                |          | No data available  |         |                  |               |                                      |        |
| alkyl alcohol ethoxylate            |                |          | No data available  |         |                  |               |                                      |        |
| sodium carbonate                    |                |          | No data available  |         |                  |               |                                      |        |
| propan-2-ol                         |                |          | No data available  |         |                  |               |                                      |        |
| 2-tert-butylcyclohexyl acetate      |                |          | No data available  |         |                  |               |                                      |        |
| tridec-2-enenitrile                 |                |          | No data available  |         |                  |               |                                      |        |

## STOT-single exposure

| Ingredient(s)                       | Affected organ(s) |
|-------------------------------------|-------------------|
| alkyl alcohol ethoxylate            | No data available |
| didecyldimethylammonium chloride    | No data available |
| alkyldimethylbenzylammoniumchloride | No data available |
| alkyl alcohol ethoxylate            | No data available |
| sodium carbonate                    | No data available |
| propan-2-ol                         | No data available |
| 2-tert-butylcyclohexyl acetate      | No data available |
| tridec-2-enenitrile                 | No data available |

## STOT-repeated exposure

| Ingredient(s)                       | Affected organ(s) |
|-------------------------------------|-------------------|
| alkyl alcohol ethoxylate            | No data available |
| didecyldimethylammonium chloride    | No data available |
| alkyldimethylbenzylammoniumchloride | No data available |
| alkyl alcohol ethoxylate            | No data available |
| sodium carbonate                    | No data available |
| propan-2-ol                         | No data available |
| 2-tert-butylcyclohexyl acetate      | No data available |
| tridec-2-enenitrile                 | 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.

## SECTION 12: Ecological information

### 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) |
|----------------------------------|------------------|--------------|--------------------------|----------|-------------------|
| alkyl alcohol ethoxylate         | LC <sub>50</sub> | 1 - 10       | <i>Cyprinus carpio</i>   | OECD 203 | 96                |
| didecyldimethylammonium chloride | LC <sub>50</sub> | 0.1 - 1      | <i>Brachydanio rerio</i> | OECD 203 | 96                |

## Room Care R2-Plus

|                                     |                  |                   |                            |                  |    |
|-------------------------------------|------------------|-------------------|----------------------------|------------------|----|
| alkyldimethylbenzylammoniumchloride | LC <sub>50</sub> | 0.85              | <i>Fish</i>                | Method not given | 96 |
| alkyl alcohol ethoxylate            | LC <sub>50</sub> | 1 - 10            | <i>Cyprinus carpio</i>     | OECD 203         | 96 |
| sodium carbonate                    | LC <sub>50</sub> | 300               | <i>Lepomis macrochirus</i> | Method not given | 96 |
| propan-2-ol                         | LC <sub>50</sub> | > 100             | <i>Pimephales promelas</i> | Method not given | 48 |
| 2-tert-butylcyclohexyl acetate      |                  | No data available |                            |                  |    |
| tridec-2-enenitrile                 |                  | No data available |                            |                  |    |

## Aquatic short-term toxicity - crustacea

| Ingredient(s)                       | Endpoint         | Value (mg/l)      | Species                     | Method           | Exposure time (h) |
|-------------------------------------|------------------|-------------------|-----------------------------|------------------|-------------------|
| alkyl alcohol ethoxylate            | EC <sub>50</sub> | 1 - 10            | <i>Daphnia magna Straus</i> | OECD 202, static | 48                |
| didecyldimethylammonium chloride    | EC <sub>50</sub> | 0.1 - 1           | <i>Daphnia magna Straus</i> | OECD 202         | 48                |
| alkyldimethylbenzylammoniumchloride | EC <sub>50</sub> | 0.02              | <i>Daphnia</i>              | Method not given | 48                |
| alkyl alcohol ethoxylate            | EC <sub>50</sub> | 1 - 10            | <i>Daphnia magna Straus</i> | OECD 202         | 48                |
| sodium carbonate                    | EC <sub>50</sub> | 265               | <i>Daphnia magna Straus</i> | Method not given | 96                |
| propan-2-ol                         | EC <sub>50</sub> | > 100             | <i>Daphnia magna Straus</i> | Method not given | 48                |
| 2-tert-butylcyclohexyl acetate      |                  | No data available |                             |                  |                   |
| tridec-2-enenitrile                 |                  | No data available |                             |                  |                   |

## Aquatic short-term toxicity - algae

| Ingredient(s)                       | Endpoint         | Value (mg/l)      | Species                                | Method           | Exposure time (h) |
|-------------------------------------|------------------|-------------------|--|------------------|-------------------|
| alkyl alcohol ethoxylate            | EC <sub>50</sub> | 1 - 10            | <i>Desmodesmus subspicatus</i>         | OECD 201, static | 72                |
| didecyldimethylammonium chloride    | EC <sub>50</sub> | 0.1 - 1           | <i>Pseudokirchneriella subcapitata</i> | OECD 201         | 72                |
| alkyldimethylbenzylammoniumchloride | EC <sub>50</sub> | 0.06              | <i>Pseudokirchneriella subcapitata</i> | OECD 201         | 96                |
| alkyl alcohol ethoxylate            | EC <sub>50</sub> | 1 - 10            | <i>Desmodesmus subspicatus</i>         | OECD 201         | 72                |
| sodium carbonate                    |                  | No data available |  |                  | -                 |
| propan-2-ol                         | EC <sub>50</sub> | > 100             | <i>Scenedesmus quadricauda</i>         | Method not given | 72                |
| 2-tert-butylcyclohexyl acetate      |                  | No data available |  |                  |                   |
| tridec-2-enenitrile                 |                  | No data available |  |                  |                   |

## Aquatic short-term toxicity - marine species

| Ingredient(s)                       | Endpoint | Value (mg/l)      | Species | Method | Exposure time (days) |
|-------------------------------------|----------|-------------------|---------|--------|----------------------|
| alkyl alcohol ethoxylate            |          | No data available |         |        | -                    |
| didecyldimethylammonium chloride    |          | No data available |         |        | -                    |
| alkyldimethylbenzylammoniumchloride |          | No data available |         |        | -                    |
| alkyl alcohol ethoxylate            |          | No data available |         |        | -                    |
| sodium carbonate                    |          | No data available |         |        | -                    |
| propan-2-ol                         |          | No data available |         |        | -                    |
| 2-tert-butylcyclohexyl acetate      |          | No data available |         |        |                      |
| tridec-2-enenitrile                 |          | No data available |         |        |                      |

## Impact on sewage plants - toxicity to bacteria

| Ingredient(s)                       | Endpoint         | Value (mg/l)      | Inoculum                | Method                            | Exposure time |
|-------------------------------------|------------------|-------------------|-------------------------|-----------------------------------|---------------|
| alkyl alcohol ethoxylate            | EC <sub>10</sub> | > 10000           | <i>Activated sludge</i> | DIN 38412 / Part 8                | 17 hour(s)    |
| didecyldimethylammonium chloride    |                  | No data available |                         |                                   |               |
| alkyldimethylbenzylammoniumchloride | EC <sub>20</sub> | 10                | <i>Activated sludge</i> | OECD 209                          | 0.5 hour(s)   |
| alkyl alcohol ethoxylate            | EC <sub>10</sub> | > 2500            | <i>Activated sludge</i> | DIN 38412 / Part 8<br>Read across | 17 hour(s)    |
| sodium carbonate                    |                  | No data           |                         |                                   |               |

## Room Care R2-Plus

|                                |                  |                   |                  |                  |
|--------------------------------|------------------|-------------------|------------------|------------------|
|                                |                  | available         |                  |                  |
| propan-2-ol                    | EC <sub>50</sub> | > 1000            | Activated sludge | Method not given |
| 2-tert-butylcyclohexyl acetate |                  | No data available |                  |                  |
| tridec-2-enenitrile            |                  | No data available |                  |                  |

**Aquatic long-term toxicity**

Aquatic long-term toxicity - fish

| Ingredient(s)                       | Endpoint | Value (mg/l)      | Species | Method | Exposure time | Effects observed |
|-------------------------------------|----------|-------------------|---------|--------|---------------|------------------|
| alkyl alcohol ethoxylate            |          | No data available |         |        |               |                  |
| didecyltrimethylammonium chloride   |          | No data available |         |        |               |                  |
| alkyldimethylbenzylammoniumchloride |          | No data available |         |        |               |                  |
| alkyl alcohol ethoxylate            |          | No data available |         |        |               |                  |
| sodium carbonate                    |          | No data available |         |        |               |                  |
| propan-2-ol                         |          | No data available |         |        |               |                  |
| 2-tert-butylcyclohexyl acetate      |          | No data available |         |        |               |                  |
| tridec-2-enenitrile                 |          | No data available |         |        |               |                  |

Aquatic long-term toxicity - crustacea

| Ingredient(s)                       | Endpoint | Value (mg/l)      | Species | Method | Exposure time | Effects observed |
|-------------------------------------|----------|-------------------|---------|--------|---------------|------------------|
| alkyl alcohol ethoxylate            |          | No data available |         |        |               |                  |
| didecyltrimethylammonium chloride   |          | No data available |         |        |               |                  |
| alkyldimethylbenzylammoniumchloride |          | No data available |         |        |               |                  |
| alkyl alcohol ethoxylate            |          | No data available |         |        |               |                  |
| sodium carbonate                    |          | No data available |         |        |               |                  |
| propan-2-ol                         |          | No data available |         |        |               |                  |
| 2-tert-butylcyclohexyl acetate      |          | No data available |         |        |               |                  |
| tridec-2-enenitrile                 |          | No data available |         |        |               |                  |

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 |
|-------------------------------------|----------|---------------------------|---------|--------|----------------------|------------------|
| alkyl alcohol ethoxylate            |          | No data available         |         |        | -                    |                  |
| didecyltrimethylammonium chloride   |          | No data available         |         |        | -                    |                  |
| alkyldimethylbenzylammoniumchloride |          | No data available         |         |        | -                    |                  |
| alkyl alcohol ethoxylate            |          | No data available         |         |        | -                    |                  |
| sodium carbonate                    |          | No data available         |         |        | -                    |                  |
| propan-2-ol                         |          | No data available         |         |        | -                    |                  |
| 2-tert-butylcyclohexyl acetate      |          | No data available         |         |        |                      |                  |
| tridec-2-enenitrile                 |          | No data available         |         |        |                      |                  |

**Terrestrial toxicity**

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

| Ingredient(s)                       | Endpoint         | Value (mg/kg dw soil) | Species               | Method   | Exposure time (days) | Effects observed |
|-------------------------------------|------------------|-----------------------|-----------------------|----------|----------------------|------------------|
| alkyl alcohol ethoxylate            | NOEC             | 220                   | <i>Eisenia fetida</i> |          | -                    |                  |
| didecyltrimethylammonium chloride   |                  | No data available     |                       |          | -                    |                  |
| alkyldimethylbenzylammoniumchloride |                  | No data available     |                       |          | -                    |                  |
| alkyl alcohol ethoxylate            | LD <sub>50</sub> | > 1000                | <i>Eisenia fetida</i> | OECD 207 | 14                   |                  |
| sodium carbonate                    |                  | No data available     |                       |          | -                    |                  |
| propan-2-ol                         |                  | No data available     |                       |          | -                    |                  |

## Room Care R2-Plus

|  |  |           |  |  |  |  |
|--|--|-----------|--|--|--|--|
|  |  | available |  |  |  |  |
|--|--|-----------|--|--|--|--|

Terrestrial toxicity - plants, if available:

| Ingredient(s)                       | Endpoint         | Value (mg/kg dw soil) | Species   | Method   | Exposure time (days) | Effects observed |
|-------------------------------------|------------------|-----------------------|---|----------|----------------------|------------------|
| alkyl alcohol ethoxylate            | NOEC             | 10                    | <i>Lepidium sativum</i>   | OECD 208 | -                    |                  |
| didecyldimethylammonium chloride    |                  | No data available     |   |          | -                    |                  |
| alkyldimethylbenzylammoniumchloride |                  | No data available     |   |          | -                    |                  |
| alkyl alcohol ethoxylate            | EC <sub>50</sub> | > 100                 | <i>Triticum aestivum</i><br><i>Lepidium sativum</i><br><i>Brassica alba</i> | OECD 208 | -                    |                  |
| sodium carbonate                    |                  | No data available     |   |          | -                    |                  |
| propan-2-ol                         |                  | No data available     |   |          | -                    |                  |

Terrestrial toxicity - birds, if available:

| Ingredient(s)                       | Endpoint | Value             | Species | Method | Exposure time (days) | Effects observed |
|-------------------------------------|----------|-------------------|---------|--------|----------------------|------------------|
| alkyl alcohol ethoxylate            |          | No data available |         |        | -                    |                  |
| didecyldimethylammonium chloride    |          | No data available |         |        | -                    |                  |
| alkyldimethylbenzylammoniumchloride |          | No data available |         |        | -                    |                  |
| alkyl alcohol ethoxylate            |          | No data available |         |        | -                    |                  |
| sodium carbonate                    |          | No data available |         |        | -                    |                  |
| propan-2-ol                         |          | No data available |         |        | -                    |                  |

Terrestrial toxicity - beneficial insects, if available:

| Ingredient(s)                       | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|-------------------------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| alkyl alcohol ethoxylate            |          | No data available     |         |        | -                    |                  |
| didecyldimethylammonium chloride    |          | No data available     |         |        | -                    |                  |
| alkyldimethylbenzylammoniumchloride |          | No data available     |         |        | -                    |                  |
| alkyl alcohol ethoxylate            |          | No data available     |         |        | -                    |                  |
| sodium carbonate                    |          | No data available     |         |        | -                    |                  |
| propan-2-ol                         |          | No data available     |         |        | -                    |                  |

Terrestrial toxicity - soil bacteria, if available:

| Ingredient(s)                       | Endpoint | Value (mg/kg dw soil) | Species | Method | Exposure time (days) | Effects observed |
|-------------------------------------|----------|-----------------------|---------|--------|----------------------|------------------|
| alkyl alcohol ethoxylate            |          | No data available     |         |        | -                    |                  |
| didecyldimethylammonium chloride    |          | No data available     |         |        | -                    |                  |
| alkyldimethylbenzylammoniumchloride |          | No data available     |         |        | -                    |                  |
| alkyl alcohol ethoxylate            |          | No data available     |         |        | -                    |                  |
| sodium carbonate                    |          | No data available     |         |        | -                    |                  |
| propan-2-ol                         |          | No data available     |         |        | -                    |                  |

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

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

| Ingredient(s)    | Half-life time in fresh water | Method | Evaluation           | Remark |
|------------------|-------------------------------|--------|----------------------|--------|
| sodium carbonate | No data available             |        | Rapidly hydrolysible |        |

Abiotic degradation - other processes, if available:

## Room Care R2-Plus

**Biodegradation**

Ready biodegradability - aerobic conditions

| Ingredient(s)                       | Inoculum | Analytical method          | DT <sub>50</sub>    | Method    | Evaluation                           |
|-------------------------------------|----------|----------------------------|---------------------|-----------|--------------------------------------|
| alkyl alcohol ethoxylate            |          | CO <sub>2</sub> production | > 60 % in 28 day(s) | OECD 301B | Readily biodegradable                |
| didecyldimethylammonium chloride    |          | Oxygen depletion           | > 60%               | OECD 301D | Readily biodegradable                |
| alkyldimethylbenzylammoniumchloride |          | Oxygen depletion           | > 60%               | OECD 301D | Readily biodegradable                |
| alkyl alcohol ethoxylate            |          | CO <sub>2</sub> production | > 60 % in 28 day(s) | OECD 301B | Readily biodegradable                |
| sodium carbonate                    |          |                            |                     |           | Not applicable (inorganic substance) |
| propan-2-ol                         |          |                            | 95 % in 21 day(s)   | OECD 301E | Readily biodegradable                |
| 2-tert-butylcyclohexyl acetate      |          |                            |                     |           | No data available                    |
| tridec-2-enenitrile                 |          |                            |                     |           | No data available                    |

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**12.3 Bioaccumulative potential**

Partition coefficient n-octanol/water (log Kow)

| Ingredient(s)                       | Value             | Method           | Evaluation                  | Remark |
|-------------------------------------|-------------------|------------------|-----------------------------|--------|
| alkyl alcohol ethoxylate            | No data available |                  |                             |        |
| didecyldimethylammonium chloride    | No data available |                  |                             |        |
| alkyldimethylbenzylammoniumchloride | 0.5 - 1.58        | Method not given | No bioaccumulation expected |        |
| alkyl alcohol ethoxylate            | No data available |                  |                             |        |
| sodium carbonate                    | No data available |                  | No bioaccumulation expected |        |
| propan-2-ol                         | 0.05              | OECD 107         | No bioaccumulation expected |        |
| 2-tert-butylcyclohexyl acetate      | No data available |                  |                             |        |
| tridec-2-enenitrile                 | No data available |                  |                             |        |

Bioconcentration factor (BCF)

| Ingredient(s)                       | Value             | Species | Method           | Evaluation                  | Remark |
|-------------------------------------|-------------------|---------|------------------|-----------------------------|--------|
| alkyl alcohol ethoxylate            | No data available |         |                  |                             |        |
| didecyldimethylammonium chloride    | 2.1               |         | Method not given | No bioaccumulation expected |        |
| alkyldimethylbenzylammoniumchloride | 0.5               |         | Method not given | No bioaccumulation expected |        |
| alkyl alcohol ethoxylate            | No data available |         |                  |                             |        |
| sodium carbonate                    | No data available |         |                  | No bioaccumulation expected |        |
| propan-2-ol                         | No data available |         |                  |                             |        |
| 2-tert-butylcyclohexyl acetate      | No data available |         |                  |                             |        |
| tridec-2-enenitrile                 | No data available |         |                  |                             |        |

**12.4 Mobility in soil**

Adsorption/Desorption to soil or sediment

| Ingredient(s)                       | Adsorption coefficient Log Koc | Desorption coefficient Log Koc(des) | Method | Soil/sediment type | Evaluation                                       |
|-------------------------------------|--------------------------------|-------------------------------------|--------|--------------------|--|
| alkyl alcohol ethoxylate            | No data available              |                                     |        |                    | Immobile in soil or sediment                     |
| didecyldimethylammonium chloride    | No data available              |                                     |        |                    |  |
| alkyldimethylbenzylammoniumchloride | No data available              |                                     |        |                    |  |
| alkyl alcohol ethoxylate            | No data available              |                                     |        |                    |  |
| sodium carbonate                    | No data available              |                                     |        |                    | Potential for mobility in soil, soluble in water |
| propan-2-ol                         | No data available              |                                     |        |                    | Potential for mobility in soil, soluble in water |
| 2-tert-butylcyclohexyl acetate      | No data available              |                                     |        |                    |  |
| tridec-2-enenitrile                 | 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 Other adverse effects**

No other adverse effects known.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

## Room Care R2-Plus

**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.  
20 01 29\* - detergents containing dangerous substances.

**European Waste Catalogue:****Empty packaging****Recommendation:**

Dispose of observing national or local regulations.

**Suitable cleaning agents:**

Water, if necessary with cleaning agent.

**SECTION 14: Transport information****ADR, RID, ADN, IMO/IMDG, ICAO/IATA**

**14.1 UN number:** 3082

**14.2 UN proper shipping name:**

Environmentally hazardous substance, liquid, n.o.s. ( alkyl(dimethyl)benzylammoniumchloride )

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

**Class:** 9

**Label(s):** 9

**14.4 Packing group:** III

**14.5 Environmental hazards:**

**Environmentally hazardous:** Yes

**Marine pollutant:** Yes

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

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** The product is not transported in bulk tankers.

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

**Classification code:** M6

**Tunnel restriction code:** E

**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 certain classes of dangerous goods packed in limited quantities.

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

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

**Ingredients according to EC Detergents Regulation 648/2004**

non-ionic surfactants

5 - 15%

disinfectants, perfumes, Hexyl Cinnamal, Butylphenyl Methylpropional, Alpha-Isomethyl Ionone

**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*

**MSDS code:** MS1001390

**Version:** 02.0

**Revision:** 2015-03-14

**Reason for revision:**

Overall design adjusted in accordance with Amendment 453/2010, 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.

**Room Care R2-Plus****Full text of the R, H and EUH phrases mentioned in section 3:**

- H225 - Highly flammable liquid and vapour.
- H302 - Harmful if swallowed.
- H312 - Harmful in contact with skin.
- H314 - Causes severe skin burns and eye damage.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H336 - May cause drowsiness or dizziness.
- 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.
- R11 - Highly flammable.
- R21 - Harmful in contact with skin.
- R22 - Harmful if swallowed.
- R34 - Causes burns.
- R36 - Irritating to eyes.
- R41 - Risk of serious damage to eyes.
- R50 - Very toxic to aquatic organisms.
- R67 - Vapours may cause drowsiness and dizziness.
- R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**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

**End of Safety Data Sheet**