

## Room Care R2-Plus

Revision: 2014-02-06

Version: 01

### 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 Ltd

#### Contact details

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 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



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.

#### Safety phrases:

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S61b - Avoid release to the environment. Refer to safety data sheet.

S37/39 - Wear suitable gloves and eye/face protection.

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**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 (EC) 1272/2008	Notes	Weight percent
alkyl alcohol ethoxylate	Polymer*	69011-36-5	[4]	Xn;R22 Xi;R41	Eye Dam. 1 (H318) Acute Tox. 4 (H302)		10-20
didecyltrimethylammonium chloride	230-525-2	7173-51-5	No data available	Xn;R22 C;R34 N;R50	Skin Corr. 1B (H314) Acute Tox. 4 (H302) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)		3-10
alkyldimethylbenzylammonium chloride	270-325-2	68424-85-1	No data available	Xn;R21/22 C;R34 N;R50	Skin Corr. 1B (H314) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Acute Tox. 4 (H302) Acute Tox. 4 (H312)		3-10
alkyl alcohol ethoxylate	931-138-8	69011-36-5	[4]	Xi;R41	Eye Dam. 1 (H318)		1-3
sodium carbonate	207-838-8	497-19-8	01-2119485498-19	Xi;R36	Eye Irrit. 2 (H319)		1-3
propan-2-ol	200-661-7	67-63-0	01-2119457558-25	F;R11 Xi;R36 R67	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319) STOT SE 3 (H336)		1-3
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	259-174-3	54464-57-2	No data available	N;R51/53	Aquatic Chronic 2 (H411)		0.1-1
2-tert-butylcyclohexyl acetate	201-828-7	88-41-5	No data available	N;R51/53	Aquatic Chronic 2 (H411)		0.1-1

\* 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**

Remove from source of exposure. Get medical attention.

**Skin contact:**

Rinse with plenty of water. Take off all contaminated clothing immediately. If irritation develops get medical attention.

**Eye contact:**

Wash off immediately with plenty of water. Get medical attention immediately.

**Ingestion:**

Remove material from mouth. Immediately drink 1-2 glasses of water or milk. Get medical attention.

**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:**

Causes irritation.

**Skin contact:**

Causes irritation.

**Eye contact:**

Causes severe irritation.

**Ingestion:**

Causes irritation.

**Sensitisation:**

No known effects.

**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**

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

Wear suitable gloves and 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****Advice on safe handling:**

Handle in accordance with good industrial hygiene and safety practice. Do not mix with other products unless advised by Diversey. For advice on general occupational hygiene see subsection 8.2. For environmental exposure controls see subsection 8.2. For incompatible materials see subsection 10.5.

**Prevention of fire and explosion:**

No special precautions required.

**7.2 Conditions for safe storage, including any incompatibilities****Requirements for storage rooms / facilities:**

In accordance with local and national regulations.

**Combined storage in storage rooms / facilities:**

In accordance with local and national regulations. For incompatible materials see subsection 10.5.

**Basic storage conditions**

Store in original container. Keep container tightly closed. For conditions to avoid see subsection 10.4.

**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 999 mg/m <sup>3</sup>	500 ppm 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	No data available	No data available	No data available	No data available
propan-2-ol	No data available	No data available	No data available	26
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	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

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alkyl alcohol ethoxylate	No data available	No data available	No data available	No data available
sodium carbonate	No data available	No data available	No data available	No data available
propan-2-ol	No data available	No data available	No data available	888
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	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	No data available	No data available
propan-2-ol	No data available	No data available	No data available	319
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	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	No data available	No data available	10	No data available
propan-2-ol	No data available	No data available	No data available	500
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	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	No data available	No data available	No data available
propan-2-ol	No data available	No data available	No data available	89
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	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	No data available	No data available	No data available	No data available
propan-2-ol	140.9	140.9	140.9	2251
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	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	No data available	No data available	No data available	No data available
propan-2-ol	552	552	28	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available

## 8.2 Exposure controls

## General health and safety measures

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Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Take off immediately all contaminated clothing. Wash hands before breaks and at the end of workday. Avoid contact with skin and eyes.

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:

**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 min

Material thickness:  $\geq$  0.7 mm

Suggested gloves for protection against splashes:

Material: nitrile rubber

Penetration time:  $\geq$  30 min

Material 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:** No special requirements under normal use conditions.

**Appropriate organisational controls:** No special requirements under normal use conditions.

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

No special requirements under normal use conditions.

**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:**

No special requirements under normal use conditions.

**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	
didecyldimethylammonium chloride	No data available		
alkyldimethylbenzylammoniumchloride	> 107	Method not given	
alkyl alcohol ethoxylate	No data available		
sodium carbonate	1600	Method not given	1013

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propan-2-ol	82	Method not given	1013
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available		
2-tert-butylcyclohexyl acetate	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	2300	Method not given	20
alkyl alcohol ethoxylate	No data available		
sodium carbonate	Negligible		
propan-2-ol	4200	Method not given	20
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available		
2-tert-butylcyclohexyl acetate	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	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available		
2-tert-butylcyclohexyl acetate	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**

**(according to IMDG/ADR regulation):** Not determined

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.

### 10.3 Possibility of hazardous reactions

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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****Mixtures**

No test data is available on the mixture

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)	
didecyldimethylammonium 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	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available			
2-tert-butylcyclohexyl acetate		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	
didecyldimethylammonium 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	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available			
2-tert-butylcyclohexyl acetate		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate		No data available			
didecyldimethylammonium 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
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available			
2-tert-butylcyclohexyl acetate		No data available			

**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	

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sodium carbonate	Not irritant	Rabbit	Method not given	
propan-2-ol	Not irritant	Rabbit	OECD 404 (EU B.4)	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
2-tert-butylcyclohexyl acetate	No data available			

## Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol ethoxylate	Severe damage	Rabbit	Method not given	
didecyltrimethylammonium 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)	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
2-tert-butylcyclohexyl acetate	No data available			

## Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
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			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
2-tert-butylcyclohexyl acetate	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	
didecyltrimethylammonium 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	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
2-tert-butylcyclohexyl acetate	No data available			

## Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
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			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
2-tert-butylcyclohexyl acetate	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				
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				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				



## Room Care R2-Plus

2-tert-butylcyclohexyl acetate		No data available				
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## 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				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				
2-tert-butylcyclohexyl acetate		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				
alkyldimethylbenzylammoniumchloride		No data available				
alkyl alcohol ethoxylate		No data available				
sodium carbonate		No data available				
propan-2-ol		No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				
2-tert-butylcyclohexyl acetate		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					
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one			No data available					
2-tert-butylcyclohexyl acetate			No data available					

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

## Mixture data:

Based on available data, the classification criteria are not met.

Substance data, where relevant and 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
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available

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2-tert-butylcyclohexyl acetate	No data available
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## 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, weight of evidence	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 test results	OECD 471 (EU B.12/13)	No data available	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available		No data available	
2-tert-butylcyclohexyl acetate	No data available		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				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one			No data available				
2-tert-butylcyclohexyl acetate			No data available				

## 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

## Mixtures

No test 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	Cyprinus carpio	OECD 203	96
didecyldimethylammonium chloride	LC <sub>50</sub>	0.1 - 1	Brachydanio rerio	OECD 203	96
alkyldimethylbenzylammoniumchloride	LC <sub>50</sub>	0.85	Fish	Method not given	96
alkyl alcohol ethoxylate	LC <sub>50</sub>	1 - 10	Cyprinus carpio	OECD 203	96
sodium carbonate	LC <sub>50</sub>	300	Lepomis macrochirus	Method not given	96
propan-2-ol	LC <sub>50</sub>	> 100	Pimephales promelas	Method not given	48
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available			
2-tert-butylcyclohexyl acetate		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	Daphnia magna Straus	OECD 202, static	48
didecyldimethylammonium chloride	EC <sub>50</sub>	0.1 - 1	Daphnia magna Straus	OECD 202	48
alkyldimethylbenzylammoniumchloride	EC <sub>50</sub>	0.02	Daphnia	Method not given	48

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alkyl alcohol ethoxylate	EC <sub>50</sub>	1 - 10	Daphnia magna Straus	OECD 202	48
sodium carbonate	EC <sub>50</sub>	265	Daphnia magna Straus	Method not given	96
propan-2-ol	EC <sub>50</sub>	> 100	Daphnia magna Straus	Method not given	48
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available			
2-tert-butylcyclohexyl acetate		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	Desmodesmus subspicatus	OECD 201, static	72
didecyldimethylammonium chloride	EC <sub>50</sub>	0.1 - 1	Pseudokirchneriella subcapitata	OECD 201	72
alkyldimethylbenzylammoniumchloride	EC <sub>50</sub>	0.06	Pseudokirchneriella subcapitata	OECD 201	96
alkyl alcohol ethoxylate	EC <sub>50</sub>	1 - 10	Desmodesmus subspicatus	OECD 201	72
sodium carbonate		No data available			
propan-2-ol	EC <sub>50</sub>	> 100	Scenedesmus quadricauda	Method not given	72
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available			
2-tert-butylcyclohexyl acetate		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			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available			
2-tert-butylcyclohexyl acetate		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	Activated sludge	DIN 38412 / Part 8	17 hour(s)
didecyldimethylammonium chloride		No data available			
alkyldimethylbenzylammoniumchloride	EC <sub>20</sub>	10	Activated sludge	OECD 209	0.5 hour(s)
alkyl alcohol ethoxylate	EC <sub>10</sub>	> 2500	Activated sludge	DIN 38412 / Part 8 Read across	17 hour(s)
sodium carbonate		No data available			
propan-2-ol	EC <sub>50</sub>	> 1000	Activated sludge	Method not given	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available			
2-tert-butylcyclohexyl acetate		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				
didecyldimethylammonium chloride		No data available				

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alkyldimethylbenzylammoniumchloride		No data available				
alkyl alcohol ethoxylate		No data available				
sodium carbonate		No data available				
propan-2-ol		No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one		No data available				
2-tert-butylcyclohexyl acetate		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				
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				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one		No data available				
2-tert-butylcyclohexyl acetate		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				
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				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphtyl)ethan-1-one		No data available				
2-tert-butylcyclohexyl acetate		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	Eisenia fetida			
alkyl alcohol ethoxylate	LD <sub>50</sub>	> 1000	Eisenia fetida	OECD 207	14	

## 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	Lepidium sativum	OECD 208		
alkyl alcohol ethoxylate	EC <sub>50</sub>	> 100	Triticum aestivum Lepidium sativum Brassica alba	OECD 208		

## Terrestrial toxicity - birds, if available:

## Terrestrial toxicity - beneficial insects, if available:

## Terrestrial toxicity - soil bacteria, if available:

## 12.2 Persistence and degradability

## Room Care R2-Plus

**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:

**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
didecyltrimethylammonium 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
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one					No data available
2-tert-butylcyclohexyl acetate					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			
didecyltrimethylammonium 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	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
2-tert-butylcyclohexyl acetate	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
alkyl alcohol ethoxylate	No data available				
didecyltrimethylammonium 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				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available				
2-tert-butylcyclohexyl acetate	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
didecyltrimethylammonium chloride	No data available				
alkyldimethylbenzylammoniumchloride	No data available				
alkyl alcohol ethoxylate	No data available				

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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
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available				
2-tert-butylcyclohexyl acetate	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****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. (alkyldimethylbenzylammoniumchloride)

**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**

## Room Care R2-Plus

*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:** 01**Revision:** 2014-02-06**Reason for revision:**

Initial release

**Full text of the R, H and EUH phrases mentioned in section 3:**

- R41 - Risk of serious damage to eyes.
- R22 - Harmful if swallowed.
- R34 - Causes burns.
- R50 - Very toxic to aquatic organisms.
- R36 - Irritating to eyes.
- R11 - Highly flammable.
- R67 - Vapours may cause drowsiness and dizziness.
- R38 - Irritating to skin.
- R21/22 - Harmful in contact with skin and if swallowed.
- R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 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.

**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

**End of Safety Data Sheet**