

## Room Care R5-Plus

Revision: 2014-02-06

Version: 04

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

#### 1.1 Product identifier

**Trade name:** Room Care R5-Plus

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

**Identified uses:**

AISE-C18 - Air fresheners non-aerosol

**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

#### Risk phrases:

R41 - Risk of serious damage to eyes.

R43 - May cause sensitisation by skin contact.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 2.2 Label elements



Xi - Irritant

Contains 1,2-benzisothiazol-3(2H)-one

#### Risk phrases:

R41 - Risk of serious damage to eyes.

R43 - May cause sensitisation by skin contact.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Safety phrases:

S24 - Avoid contact with skin.

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.

#### 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.

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**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*	68439-46-3	[4]	Xn;R22 Xi;R41	Eye Dam. 1 (H318) Acute Tox. 4 (H302)		10-20
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethanone	259-174-3	54464-57-2	No data available	N;R51/53	Aquatic Chronic 2 (H411)		1-3
2-tert-butylcyclohexyl acetate	201-828-7	88-41-5	No data available	N;R51/53	Aquatic Chronic 2 (H411)		1-3
alpha-hexylcinnamaldehyde	202-983-3	101-86-0	No data available	Xi;R38-43	Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)		0.1-1
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethanone	216-133-4	1506-02-1	No data available	Xn;R22 N;R50/53	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Acute Tox. 4 (H302)		0.1-1
ionone, methyl-	215-635-0	1335-46-2	No data available	Xi;R36/38 N;R51/53	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)		0.1-1
2-(4-tert-Butylbenzyl)propionaldehyde	201-289-8	80-54-6	No data available	Xn;R22 Xi;R38-43 Repr.Cat.3;R62 N;R51/53	Repr. 2 (H361) Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)		0.1-1
1,2-benzisothiazol-3(2H)-one	220-120-9	2634-33-5	No data available	Xn;R22 Xi;R38-41-43 N;R50	Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Acute Tox. 4 (H302) Skin Sens. 1 (H317) Skin Irrit. 2 (H315)		0.1-1
tridec-2-enenitrile	245-142-6	22629-49-8	No data available	N;R50/53	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		0.01-0.1

\* 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:**

Unlikely to be irritant in normal use.

**Eye contact:**

Causes severe irritation.

**Ingestion:**

Causes irritation.

**Sensitisation:**

May cause sensitisation by skin contact.

**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**

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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 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:

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
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
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
ionone, methyl-	No data available	No data available	No data available	No data available
2-(4-tert-Butylbenzyl)propionaldehyde	No data available	No data available	No data available	No data available
1,2-benzisothiazol-3(2H)-one	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

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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
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
ionone, methyl-	No data available	No data available	No data available	No data available
2-(4-tert-Butylbenzyl)propionaldehyde	No data available	No data available	No data available	No data available
1,2-benzisothiazol-3(2H)-one	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
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
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
ionone, methyl-	No data available	No data available	No data available	No data available
2-(4-tert-Butylbenzyl)propionaldehyde	No data available	No data available	No data available	No data available
1,2-benzisothiazol-3(2H)-one	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
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
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
ionone, methyl-	No data available	No data available	No data available	No data available
2-(4-tert-Butylbenzyl)propionaldehyde	No data available	No data available	No data available	No data available
1,2-benzisothiazol-3(2H)-one	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
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
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
ionone, methyl-	No data available	No data available	No data available	No data available
2-(4-tert-Butylbenzyl)propionaldehyde	No data available	No data available	No data available	No data available
1,2-benzisothiazol-3(2H)-one	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
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
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
ionone, methyl-	No data available	No data available	No data available	No data available
2-(4-tert-Butylbenzyl)propionaldehyde	No data available	No data available	No data available	No data available
1,2-benzisothiazol-3(2H)-one	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

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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
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
ionone, methyl-	No data available	No data available	No data available	No data available
2-(4-tert-Butylbenzyl)propionaldehyde	No data available	No data available	No data available	No data available
1,2-benzisothiazol-3(2H)-one	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****General health and safety measures**

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:**

No special requirements under normal use conditions.

*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:**

No special requirements under normal use conditions.

**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, Red

**Odour:** Perfumed

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**Odour threshold:** Not applicable

**pH:** ≈ 8 (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	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		
alpha-hexylcinnamaldehyde	No data available		
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	No data available		
ionone, methyl-	No data available		
2-(4-tert-Butylbenzyl)propionaldehyde	No data available		
1,2-benzisothiazol-3(2H)-one	No data available		
tridec-2-enenitrile	No data available		

**Method / remark**

closed cup

**Flash point (°C):** > 61

**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:

**Method / remark**

**Vapour pressure:** Not determined

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
alkyl alcohol ethoxylate	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		
alpha-hexylcinnamaldehyde	No data available		
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	No data available		
ionone, methyl-	No data available		
2-(4-tert-Butylbenzyl)propionaldehyde	No data available		
1,2-benzisothiazol-3(2H)-one	No data available		
tridec-2-enenitrile	No data available		

**Method / remark**

**Vapour density:** Not determined

**Relative density:** 1.00 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	
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		
alpha-hexylcinnamaldehyde	No data available		
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	No data available		
ionone, methyl-	No data available		
2-(4-tert-Butylbenzyl)propionaldehyde	No data available		
1,2-benzisothiazol-3(2H)-one	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:** Not determined

**Explosive properties:** Not explosive.

**Oxidising properties:** Not oxidising.

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**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**

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**

None known under normal use conditions.

**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>	> 2000	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			
alpha-hexylcinnamaldehyde		No data available			
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one		No data available			
ionone, methyl-		No data available			
2-(4-tert-Butylbenzyl)propionaldehyde		No data available			
1,2-benzisothiazol-3(2H)-one		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	
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			
alpha-hexylcinnamaldehyde		No data available			
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one		No data available			
ionone, methyl-		No data available			
2-(4-tert-Butylbenzyl)propionaldehyde		No data available			
1,2-benzisothiazol-3(2H)-one		No data available			
tridec-2-enenitrile		No data available			

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## Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alkyl alcohol ethoxylate		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			
alpha-hexylcinnamaldehyde		No data available			
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one		No data available			
ionone, methyl-		No data available			
2-(4-tert-Butylbenzyl)propionaldehyde		No data available			
1,2-benzisothiazol-3(2H)-one		No data available			
tridec-2-enenitrile		No data available			

## Irritation and corrosivity

## Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alkyl alcohol ethoxylate	Not irritant	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			
alpha-hexylcinnamaldehyde	No data available			
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	No data available			
ionone, methyl-	No data available			
2-(4-tert-Butylbenzyl)propionaldehyde	No data available			
1,2-benzisothiazol-3(2H)-one	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	
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			
alpha-hexylcinnamaldehyde	No data available			
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	No data available			
ionone, methyl-	No data available			
2-(4-tert-Butylbenzyl)propionaldehyde	No data available			
1,2-benzisothiazol-3(2H)-one	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			
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			
alpha-hexylcinnamaldehyde	No data available			
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	No data available			
ionone, methyl-	No data available			
2-(4-tert-Butylbenzyl)propionaldehyde	No data available			
1,2-benzisothiazol-3(2H)-one	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	
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			
alpha-hexylcinnamaldehyde	No data available			
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	No data available			
ionone, methyl-	No data available			
2-(4-tert-Butylbenzyl)propionaldehyde	No data available			



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1,2-benzisothiazol-3(2H)-one	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			
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			
alpha-hexylcinnamaldehyde	No data available			
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	No data available			
ionone, methyl-	No data available			
2-(4-tert-Butylbenzyl)propionaldehyde	No data available			
1,2-benzisothiazol-3(2H)-one	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				
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				
alpha-hexylcinnamaldehyde		No data available				
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one		No data available				
ionone, methyl-		No data available				
2-(4-tert-Butylbenzyl)propionaldehyde		No data available				
1,2-benzisothiazol-3(2H)-one		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	NOAEL	80		OECD 411 (EU B.28)		
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				
alpha-hexylcinnamaldehyde		No data available				
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one		No data available				
ionone, methyl-		No data available				
2-(4-tert-Butylbenzyl)propionaldehyde		No data available				
1,2-benzisothiazol-3(2H)-one		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				
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				
alpha-hexylcinnamaldehyde		No data available				
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one		No data available				
ionone, methyl-		No data available				
2-(4-tert-Butylbenzyl)propionaldehyde		No data available				

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1,2-benzisothiazol-3(2H)-one		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		NOAEL	80		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					
alpha-hexylcinnamaldehyde			No data available					
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one			No data available					
ionone, methyl-			No data available					
2-(4-tert-Butylbenzyl)propionaldehyde			No data available					
1,2-benzisothiazol-3(2H)-one			No data available					
tridec-2-enenitrile			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, negative test results
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
alpha-hexylcinnamaldehyde	No data available
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	No data available
ionone, methyl-	No data available
2-(4-tert-Butylbenzyl)propionaldehyde	No data available
1,2-benzisothiazol-3(2H)-one	No data available
tridec-2-enenitrile	No data available

## Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
alkyl alcohol ethoxylate	No evidence for mutagenicity, negative test results	Method not given	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	
alpha-hexylcinnamaldehyde	No data available		No data available	
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	No data available		No data available	
ionone, methyl-	No data available		No data available	
2-(4-tert-Butylbenzyl)propionaldehyde	No data available		No data available	
1,2-benzisothiazol-3(2H)-one	No data available		No data available	
tridec-2-enenitrile	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		> 250	Rat			
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				
alpha-hexylcinnamaldehyde			No data available				

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1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one			No data available				
ionone, methyl-			No data available				
2-(4-tert-Butylbenzyl)propionaldehyde			No data available				
1,2-benzisothiazol-3(2H)-one			No data available				
tridec-2-enenitrile			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>	5 - 7	Fish	(EC) 440/2008, C.1	96
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			
alpha-hexylcinnamaldehyde		No data available			
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one		No data available			
ionone, methyl-		No data available			
2-(4-tert-Butylbenzyl)propionaldehyde		No data available			
1,2-benzisothiazol-3(2H)-one		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>	5.3	Daphnia magna Straus	92/69/EEC	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			
alpha-hexylcinnamaldehyde		No data available			
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one		No data available			
ionone, methyl-		No data available			
2-(4-tert-Butylbenzyl)propionaldehyde		No data available			
1,2-benzisothiazol-3(2H)-one		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>	1.4 - 47	Not specified	92/69/EEC	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			
alpha-hexylcinnamaldehyde		No data available			
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one		No data available			

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ionone, methyl-		No data available			
2-(4-tert-Butylbenzyl)propionaldehyde		No data available			
1,2-benzisothiazol-3(2H)-one		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			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8-tetramethyl-2-naphthyl)ethan-1-one		No data available			
2-tert-butylcyclohexyl acetate		No data available			
alpha-hexylcinnamaldehyde		No data available			
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one		No data available			
ionone, methyl-		No data available			
2-(4-tert-Butylbenzyl)propionaldehyde		No data available			
1,2-benzisothiazol-3(2H)-one		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>50</sub>	> 140	Bacteria	Method not given	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8-tetramethyl-2-naphthyl)ethan-1-one		No data available			
2-tert-butylcyclohexyl acetate		No data available			
alpha-hexylcinnamaldehyde		No data available			
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one		No data available			
ionone, methyl-		No data available			
2-(4-tert-Butylbenzyl)propionaldehyde		No data available			
1,2-benzisothiazol-3(2H)-one		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	EC <sub>10</sub>	8983	Not specified	Method not given	21 day(s)	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				
2-tert-butylcyclohexyl acetate		No data available				
alpha-hexylcinnamaldehyde		No data available				
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one		No data available				
ionone, methyl-		No data available				
2-(4-tert-Butylbenzyl)propionaldehyde		No data available				
1,2-benzisothiazol-3(2H)-one		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		2579	Daphnia magna	Method not given	21 day(s)	

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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				
alpha-hexylcinnamaldehyde		No data available				
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one		No data available				
ionone, methyl-		No data available				
2-(4-tert-Butylbenzyl)propionaldehyde		No data available				
1,2-benzisothiazol-3(2H)-one		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				
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				
alpha-hexylcinnamaldehyde		No data available				
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one		No data available				
ionone, methyl-		No data available				
2-(4-tert-Butylbenzyl)propionaldehyde		No data available				
1,2-benzisothiazol-3(2H)-one		No data available				
tridec-2-enenitrile		No data available				

**Terrestrial toxicity**

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

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

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

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

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			80%	OECD 301C	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
alpha-hexylcinnamaldehyde					No data available
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one					No data available
ionone, methyl-					No data available
2-(4-tert-Butylbenzyl)propionaldehyde					No data available
1,2-benzisothiazol-3(2H)-one					No data available
tridec-2-enenitrile					No data available

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

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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	3.11 - 4.19			
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			
alpha-hexylcinnamaldehyde	No data available			
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	No data available			
ionone, methyl-	No data available			
2-(4-tert-Butylbenzyl)propionaldehyde	No data available			
1,2-benzisothiazol-3(2H)-one	No data available			
tridec-2-enenitrile	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
alkyl alcohol ethoxylate	< 500				
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				
alpha-hexylcinnamaldehyde	No data available				
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	No data available				
ionone, methyl-	No data available				
2-(4-tert-Butylbenzyl)propionaldehyde	No data available				
1,2-benzisothiazol-3(2H)-one	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				
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				
alpha-hexylcinnamaldehyde	No data available				
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	No data available				
ionone, methyl-	No data available				
2-(4-tert-Butylbenzyl)propionaldehyde	No data available				
1,2-benzisothiazol-3(2H)-one	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**

**Waste from residues / unused products:**

**European Waste Catalogue:**

**Empty packaging Recommendation:**

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.

Dispose of observing national or local regulations.

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Suitable cleaning agents: Water, if necessary with cleaning agent.

## SECTION 14: Transport information

### ADR, RID, ADN, IMO/IMDG, ICAO/IATA

14.1 UN number: Non-dangerous goods

14.2 UN proper shipping name: Non-dangerous goods

14.3 Transport hazard class(es): Non-dangerous goods

Class: -

14.4 Packing group: Non-dangerous goods

14.5 Environmental hazards: Non-dangerous goods

14.6 Special precautions for user: Non-dangerous goods

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.

## 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%  
 perfumes, Hexyl Cinnamal, Butylphenyl Methylpropional, Benzisothiazolinone, 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: MSDS4770

Version: 04

Revision: 2014-02-06

### Reason for revision:

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

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

- R41 - Risk of serious damage to eyes.
- R22 - Harmful if swallowed.
- R43 - May cause sensitisation by skin contact.
- R62 - Possible risk of impaired fertility.
- R38 - Irritating to skin.
- R50 - Very toxic to aquatic organisms.
- R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- H302 - Harmful if swallowed.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H361 - Suspected of damaging fertility or the unborn child if inhaled.
- 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