



Safety Data Sheet

According to Regulation (EC) No 1907/2006

Room Care R5-Plus

Revision: 2018-09-02

Version: 02.0

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

Contact details

Diversey Ltd

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: customerservice.uk@diversey.com

1.4 Emergency telephone number

For medical or environmental emergency only:
call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Eye Irrit. 2 (H319)

Aquatic Chronic 3 (H412)

2.2 Label elements



Signal word: Warning.

Contains 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one (Tetramethyl Acetyloctahydronapthalenes), alpha-hexylcinnamaldehyde (Hexyl Cinnamal), cineole (Eucalyptol), 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one (Alpha-Isomethyl Ionone)

Hazard statements:

H319 - Causes serious eye irritation.

EUH208 - May produce an allergic reaction.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements:

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P501 - Dispose of unused content as chemical waste.

2.3 Other hazards

No other hazards known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
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ethanol	200-578-6	64-17-5	01-2119457610-43	Flam. Liq. 2 (H225)		10-20
alkyl alcohol ethoxylate	Polymer*	68439-46-3	[4]	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)		10-20
2,6-dimethyloct-7-en-2-ol	242-362-4	18479-58-8	01-2119457274-37	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)		1-3
2-tert-butylcyclohexyl acetate	201-828-7	88-41-5	No data available	Aquatic Chronic 2 (H411)		1-3
alpha-hexylcinnamaldehyde	202-983-3	101-86-0	01-2119533092-50	Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Aquatic Chronic 2 (H411)		0.1-1
1,4-dioxacyclohexadecane-5,16-dione	259-423-6	54982-83-1	No data available	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		0.1-1
tridec-2-enenitrile	245-142-6	22629-49-8	No data available	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		0.01-0.1

* Polymer.

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.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation:

Get medical attention or advice if you feel unwell.

Skin contact:

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

Eye contact:

Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation occurs and persists, get medical attention.

Ingestion:

Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.

Self-protection of first aider:

Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation:

No known effects or symptoms in normal use.

Skin contact:

No known effects or symptoms in normal use.

Eye contact:

Causes severe irritation.

Ingestion:

No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

No special hazards known.

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No special measures required.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

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

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6.4 Reference to other sections

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

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Measures to prevent fire and explosions:**

No special precautions required.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Do not mix with other products unless advised by Diversey. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Use personal protective equipment as required. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

7.2 Conditions for safe storage, including any incompatibilities

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

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

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Workplace exposure limits**

Air limit values, if available:

Ingredient(s)	UK - Long term value(s)	UK - Short term value(s)
ethanol	1000 ppm 1920 mg/m ³	3000 ppm 5760 mg/m ³

Biological limit values, 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
ethanol	-	No data available	-	87
alkyl alcohol ethoxylate	-	-	-	-
2,6-dimethyloct-7-en-2-ol	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
1,4-dioxacyclohexadecane-5,16-dione	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)
ethanol	-	-	-	343
alkyl alcohol ethoxylate	-	-	-	-
2,6-dimethyloct-7-en-2-ol	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
1,4-dioxacyclohexadecane-5,16-dione	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)
ethanol	-	-	-	206
alkyl alcohol ethoxylate	-	-	-	-
2,6-dimethyloct-7-en-2-ol	No data available	No data available	No data available	No data available

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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
1,4-dioxacyclohexadecane-5,16-dione	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/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
ethanol	1900	-	-	950
alkyl alcohol ethoxylate	-	-	-	-
2,6-dimethyloct-7-en-2-ol	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
1,4-dioxacyclohexadecane-5,16-dione	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/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
ethanol	950	-	-	114
alkyl alcohol ethoxylate	-	-	-	-
2,6-dimethyloct-7-en-2-ol	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
1,4-dioxacyclohexadecane-5,16-dione	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)
ethanol	0.96	0.79	2.75	No data available
alkyl alcohol ethoxylate	-	-	-	-
2,6-dimethyloct-7-en-2-ol	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
1,4-dioxacyclohexadecane-5,16-dione	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 ³)
ethanol	3.6	2.9	0.63	-
alkyl alcohol ethoxylate	-	-	-	-
2,6-dimethyloct-7-en-2-ol	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
1,4-dioxacyclohexadecane-5,16-dione	No data available	No data available	No data available	No data available
tridec-2-enenitrile	No data available	No data available	No data available	No data available

8.2 Exposure controls

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

Recommended safety measures for handling the undiluted product:

Covering activities such as filling and transfer of product to application equipment, flasks or buckets

Appropriate engineering controls: No special requirements under normal use conditions.
Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment

Eye / face protection: Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product (EN 166).

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.

Recommended safety measures for handling the diluted product:

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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

Physical State: Liquid
Colour: Clear, Light, from Colourless to Yellow
Odour: Perfumed
Odour threshold: Not applicable
pH: 7.7 (neat)
Dilution pH: ≈ 7
Melting point/freezing point (°C): Not determined
Initial boiling point and boiling range (°C): Not determined

Method / remark

ISO 4316
 ISO 4316
 Not relevant to classification of this product
 See substance data

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
ethanol	78.4	Method not given	
alkyl alcohol ethoxylate	> 232		
2,6-dimethyloct-7-en-2-ol	No data available		
2-tert-butylcyclohexyl acetate	No data available		
alpha-hexylcinnamaldehyde	No data available		
1,4-dioxacyclohexadecane-5,16-dione	No data available		
tridec-2-enenitrile	No data available		

Flash point (°C): > 37
Sustained combustion: The product does not sustain combustion
 (UN Manual of Tests and Criteria, section 32, L.2)

Method / remark

closed cup

Evaporation rate: Not determined
Flammability (solid, gas): Not applicable to liquids
Upper/lower flammability limit (%): Not determined

Not relevant to classification of this product

See substance data

Substance data, flammability or explosive limits, if available:

Vapour pressure: Not determined**Method / remark**

See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
ethanol	5800	Method not given	
alkyl alcohol ethoxylate	10		37
2,6-dimethyloct-7-en-2-ol	No data available		
2-tert-butylcyclohexyl acetate	No data available		
alpha-hexylcinnamaldehyde	No data available		
1,4-dioxacyclohexadecane-5,16-dione	No data available		
tridec-2-enenitrile	No data available		

Method / remark

Not relevant to classification of this product
 OECD 109 (EU A.3)

Vapour density: Not determined
Relative density: ≈ 0.98 (20 °C)
Solubility in / Miscibility with Water: Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
ethanol	No data available		

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alkyl alcohol ethoxylate	Soluble	Method not given	
2,6-dimethyloct-7-en-2-ol	No data available		
2-tert-butylcyclohexyl acetate	No data available		
alpha-hexylcinnamaldehyde	No data available		
1,4-dioxacyclohexadecane-5,16-dione	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 applicable.

Viscosity: Not determined 17 mPa.s (20 °C)

Explosive properties: Not explosive. Vapours may form explosive mixtures with air.

Oxidising properties: Not oxidising.

9.2 Other information

Surface tension (N/m): Not determined

Not relevant to classification of this product

Corrosion to metals: Not corrosive

Substance data, dissociation constant, if available:

SECTION 10: Stability and reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal storage and use conditions.

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

Mixture data:

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000

Eye irritation and corrosivity

Result: Eye irritant 2

Species: Not applicable.

Method: Weight of evidence

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)
ethanol	LD ₅₀	5000	Rat	OECD 401 (EU B.1)	
alkyl alcohol ethoxylate	LD ₅₀	> 300-2000	Rat	Method not given	
2,6-dimethyloct-7-en-2-ol		No data available			
2-tert-butylcyclohexyl acetate		No data available			
alpha-hexylcinnamaldehyde		No data available			
1,4-dioxacyclohexadecane-5,16-dione		No data available			
tridec-2-enenitrile		No data available			

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Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
ethanol	LD ₅₀	> 10000	Rabbit	OECD 402 (EU B.3)	
alkyl alcohol ethoxylate	LD ₅₀	> 2000	Rabbit	Method not given	
2,6-dimethyloct-7-en-2-ol		No data available			
2-tert-butylcyclohexyl acetate		No data available			
alpha-hexylcinnamaldehyde		No data available			
1,4-dioxacyclohexadecane-5,16-dione		No data available			
tridec-2-enenitrile		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
ethanol	LC ₅₀	> 1800	Rat	Non guideline test	4
alkyl alcohol ethoxylate		No data available			
2,6-dimethyloct-7-en-2-ol		No data available			
2-tert-butylcyclohexyl acetate		No data available			
alpha-hexylcinnamaldehyde		No data available			
1,4-dioxacyclohexadecane-5,16-dione		No data available			
tridec-2-enenitrile		No data available			

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
ethanol	No data available			
alkyl alcohol ethoxylate	Not irritant	Rabbit	Method not given	
2,6-dimethyloct-7-en-2-ol	No data available			
2-tert-butylcyclohexyl acetate	No data available			
alpha-hexylcinnamaldehyde	No data available			
1,4-dioxacyclohexadecane-5,16-dione	No data available			
tridec-2-enenitrile	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
ethanol	No data available			
alkyl alcohol ethoxylate	Severe damage	Rabbit	Method not given	
2,6-dimethyloct-7-en-2-ol	No data available			
2-tert-butylcyclohexyl acetate	No data available			
alpha-hexylcinnamaldehyde	No data available			
1,4-dioxacyclohexadecane-5,16-dione	No data available			
tridec-2-enenitrile	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
ethanol	No data available			
alkyl alcohol ethoxylate	Not irritating to respiratory tract			
2,6-dimethyloct-7-en-2-ol	No data available			
2-tert-butylcyclohexyl acetate	No data available			
alpha-hexylcinnamaldehyde	No data available			
1,4-dioxacyclohexadecane-5,16-dione	No data available			
tridec-2-enenitrile	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
ethanol	No data available			
alkyl alcohol ethoxylate	Not sensitising	Guinea pig	Method not given	
2,6-dimethyloct-7-en-2-ol	No data available			
2-tert-butylcyclohexyl acetate	No data available			

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alpha-hexylcinnamaldehyde	No data available			
1,4-dioxacyclohexadecane-5,16-dione	No data available			
tridec-2-enenitrile	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
ethanol	No data available			
alkyl alcohol ethoxylate	No data available			
2,6-dimethyloct-7-en-2-ol	No data available			
2-tert-butylcyclohexyl acetate	No data available			
alpha-hexylcinnamaldehyde	No data available			
1,4-dioxacyclohexadecane-5,16-dione	No data available			
tridec-2-enenitrile	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
ethanol	No data available		No data available	
alkyl alcohol ethoxylate	No evidence for mutagenicity, negative test results	Method not given	No data available	
2,6-dimethyloct-7-en-2-ol	No data available		No data available	
2-tert-butylcyclohexyl acetate	No data available		No data available	
alpha-hexylcinnamaldehyde	No data available		No data available	
1,4-dioxacyclohexadecane-5,16-dione	No data available		No data available	
tridec-2-enenitrile	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
ethanol	No data available
alkyl alcohol ethoxylate	No evidence for carcinogenicity, negative test results
2,6-dimethyloct-7-en-2-ol	No data available
2-tert-butylcyclohexyl acetate	No data available
alpha-hexylcinnamaldehyde	No data available
1,4-dioxacyclohexadecane-5,16-dione	No data available
tridec-2-enenitrile	No data available

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
ethanol			No data available				
alkyl alcohol ethoxylate	NOAEL		> 250	Rat			No known significant effects or critical hazards
2,6-dimethyloct-7-en-2-ol			No data available				
2-tert-butylcyclohexyl acetate			No data available				
alpha-hexylcinnamaldehyde			No data available				
1,4-dioxacyclohexadecane-5,16-dione			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
ethanol		No data available				
alkyl alcohol ethoxylate		No data available				
2,6-dimethyloct-7-en-2-ol		No data available				
2-tert-butylcyclohexyl acetate		No data available				
alpha-hexylcinnamaldehyde		No data available				
1,4-dioxacyclohexadecane-5,16-dione		No data available				
tridec-2-enenitrile		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
ethanol		No data available				
alkyl alcohol ethoxylate	NOAEL	80		OECD 411 (EU B.28)		
2,6-dimethyloct-7-en-2-ol		No data available				
2-tert-butylcyclohexyl acetate		No data available				
alpha-hexylcinnamaldehyde		No data available				
1,4-dioxacyclohexadecane-5,16-dione		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
ethanol		No data available				
alkyl alcohol ethoxylate		No data available				
2,6-dimethyloct-7-en-2-ol		No data available				
2-tert-butylcyclohexyl acetate		No data available				
alpha-hexylcinnamaldehyde		No data available				
1,4-dioxacyclohexadecane-5,16-dione		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
ethanol			No data available					
alkyl alcohol ethoxylate		NOAEL	80		Method not given			
2,6-dimethyloct-7-en-2-ol			No data available					
2-tert-butylcyclohexyl acetate			No data available					
alpha-hexylcinnamaldehyde			No data available					
1,4-dioxacyclohexadecane-5,16-dione			No data available					
tridec-2-enenitrile			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
ethanol	No data available
alkyl alcohol ethoxylate	Not applicable
2,6-dimethyloct-7-en-2-ol	No data available
2-tert-butylcyclohexyl acetate	No data available
alpha-hexylcinnamaldehyde	No data available
1,4-dioxacyclohexadecane-5,16-dione	No data available
tridec-2-enenitrile	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
ethanol	No data available
alkyl alcohol ethoxylate	Not applicable
2,6-dimethyloct-7-en-2-ol	No data available
2-tert-butylcyclohexyl acetate	No data available
alpha-hexylcinnamaldehyde	No data available
1,4-dioxacyclohexadecane-5,16-dione	No data available
tridec-2-enenitrile	No data available

Aspiration hazard

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

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Potential adverse health effects and symptoms

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

SECTION 12: Ecological information**12.1 Toxicity**

No data is available on the mixture.

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

Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
ethanol	LC ₅₀	8150	<i>Alburnus alburnus</i>	Method not given	96
alkyl alcohol ethoxylate	LC ₅₀	5 - 7	<i>Fish</i>	OECD 203 (EU C.1)	96
2,6-dimethyloct-7-en-2-ol		No data available			
2-tert-butylcyclohexyl acetate		No data available			
alpha-hexylcinnamaldehyde		No data available			
1,4-dioxacyclohexadecane-5,16-dione		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)
ethanol	EC ₅₀	9268 - 14221	<i>Daphnia magna Straus</i>	Method not given	48
alkyl alcohol ethoxylate	EC ₅₀	5.3	<i>Daphnia magna Straus</i>	92/69/EEC	48
2,6-dimethyloct-7-en-2-ol		No data available			
2-tert-butylcyclohexyl acetate		No data available			
alpha-hexylcinnamaldehyde		No data available			
1,4-dioxacyclohexadecane-5,16-dione		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)
ethanol	EC ₅₀	5000	<i>Scenedesmus quadricauda</i>	Method not given	168
alkyl alcohol ethoxylate	EC ₅₀	1.4 - 47	<i>Not specified</i>	92/69/EEC	72
2,6-dimethyloct-7-en-2-ol		No data available			
2-tert-butylcyclohexyl acetate		No data available			
alpha-hexylcinnamaldehyde		No data available			
1,4-dioxacyclohexadecane-5,16-dione		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)
ethanol		No data available			-
alkyl alcohol ethoxylate		No data available			-
2,6-dimethyloct-7-en-2-ol		No data available			
2-tert-butylcyclohexyl acetate		No data available			
alpha-hexylcinnamaldehyde		No data available			
1,4-dioxacyclohexadecane-5,16-dione		No data available			
tridec-2-enenitrile		No data available			

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		available			
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Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
ethanol	EC ₀	6500	<i>Pseudomonas putida</i>	Method not given	16 hour(s)
alkyl alcohol ethoxylate	EC ₅₀	> 140	<i>Bacteria</i>	Method not given	
2,6-dimethyloct-7-en-2-ol		No data available			
2-tert-butylcyclohexyl acetate		No data available			
alpha-hexylcinnamaldehyde		No data available			
1,4-dioxacyclohexadecane-5,16-dione		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
ethanol		No data available				
alkyl alcohol ethoxylate	EC ₁₀	8983	<i>Not specified</i>	Method not given	21 day(s)	
2,6-dimethyloct-7-en-2-ol		No data available				
2-tert-butylcyclohexyl acetate		No data available				
alpha-hexylcinnamaldehyde		No data available				
1,4-dioxacyclohexadecane-5,16-dione		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
ethanol		No data available				
alkyl alcohol ethoxylate		2579	<i>Daphnia magna</i>	Method not given	21 day(s)	
2,6-dimethyloct-7-en-2-ol		No data available				
2-tert-butylcyclohexyl acetate		No data available				
alpha-hexylcinnamaldehyde		No data available				
1,4-dioxacyclohexadecane-5,16-dione		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
ethanol		No data available			-	
alkyl alcohol ethoxylate		No data available			-	
2,6-dimethyloct-7-en-2-ol		No data available				
2-tert-butylcyclohexyl acetate		No data available				
alpha-hexylcinnamaldehyde		No data available				
1,4-dioxacyclohexadecane-5,16-dione		No data available				
tridec-2-enenitrile		No data available				

Terrestrial toxicity

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

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
ethanol		No data			-	

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		available				
alkyl alcohol ethoxylate		No data available			-	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
ethanol		No data available			-	
alkyl alcohol ethoxylate		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
ethanol		No data available			-	
alkyl alcohol ethoxylate		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
ethanol		No data available			-	
alkyl alcohol ethoxylate		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
ethanol		No data available			-	
alkyl alcohol ethoxylate		No data 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 ₅₀	Method	Evaluation
ethanol				OECD 301B	Readily biodegradable
alkyl alcohol ethoxylate			80%	Method not given	Readily biodegradable
2,6-dimethyloct-7-en-2-ol				OECD 301B	Readily biodegradable
2-tert-butylcyclohexyl acetate				Method not given	Not readily biodegradable.
alpha-hexylcinnamaldehyde					Not readily biodegradable.
1,4-dioxacyclohexadecane-5,16-dione				OECD 301B	Readily biodegradable
tridec-2-enenitrile					Not readily biodegradable.

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potentialPartition coefficient n-octanol/water (log K_{ow})

Ingredient(s)	Value	Method	Evaluation	Remark
ethanol	No data available			
alkyl alcohol ethoxylate	3.11 - 4.19			
2,6-dimethyloct-7-en-2-ol	No data available			
2-tert-butylcyclohexyl acetate	No data available			
alpha-hexylcinnamaldehyde	No data available			
1,4-dioxacyclohexadecane-5,16-dione	No data available			
tridec-2-enenitrile	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
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ethanol	No data available				
alkyl alcohol ethoxylate	< 500				
2,6-dimethyloct-7-en-2-ol	No data available				
2-tert-butylcyclohexyl acetate	No data available				
alpha-hexylcinnamaldehyde	No data available				
1,4-dioxacyclohexadecane-5,16-dione	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 K _{oc}	Desorption coefficient Log K _{oc} (des)	Method	Soil/sediment type	Evaluation
ethanol	No data available				
alkyl alcohol ethoxylate	No data available				High potential for mobility in soil
2,6-dimethyloct-7-en-2-ol	No data available				
2-tert-butylcyclohexyl acetate	No data available				
alpha-hexylcinnamaldehyde	No data available				
1,4-dioxacyclohexadecane-5,16-dione	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:**

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**Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)****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**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 and the IBC Code:** Non-dangerous goods**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations:**

- Regulation (EC) No. 1907/2006 - REACH
- Regulation (EC) No 1272/2008 - CLP

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

UFI: VGH3-30M6-300V-3NF1

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*

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features and does not establish a legally binding contract

SDS code: MS1003714

Version: 02.0

Revision: 2018-09-02

Reason for revision:

This data sheet contains changes from the previous version in section(s):, 2, 3, 4, 8, 9, 11, 12, 16

Classification procedure

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

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

- H225 - Highly flammable liquid and vapour.
- H302 - Harmful if swallowed.
- H303 - May be harmful if swallowed.
- H315 - Causes skin irritation.
- H316 - Causes mild skin irritation.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H320 - Causes eye irritation.
- H400 - Very toxic to aquatic life.
- H402 - Harmful to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- H411 - Toxic to aquatic life with long lasting effects.
- H412 - Harmful 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
- ATE - Acute Toxicity Estimate
- LD50 - Lethal Dose, 50% / Median Lethal dose
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- EC50 - effective concentration, 50%
- NOEL - No observed effect level
- NOAEL - No observed adverse effect level
- OECD - Organization for Economic Cooperation and Development

End of Safety Data Sheet