



Room Care R5-Plus

Revision: 2022-05-08

Version: 03.0

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

1.1 Product identifier

Trade name: Room Care R5-Plus

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

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

Product use: Odor Control - Instant action.
For professional use only.

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

SWED - Sector-specific worker exposure description :

AISE_SWED_PW_4_2
AISE_SWED_PW_8a_1
AISE_SWED_PW_8b_1
AISE_SWED_PW_11_1
AISE_SWED_PW_19_1

1.3 Details of the supplier of the safety data sheet

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

Contact details

Diversey Hygiene Sales Limited
Jamestown Road, Finglas, Dublin 11, Ireland
Tel: 01 8081808 (9am - 5pm Mon-Fri)
Email: dublin.orders@diversey.com

1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible).
National Poisons Information Centre
Tel: 01 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week)
Tel: 01 809 2566 (health care professionals).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Eye Irrit. 2 (H319)
Skin Sens. 1 (H317)
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 Acetyloctahydronaphtalenes), alpha-hexylcinnamaldehyde (Hexyl Cinnamal), cineole (Eucalyptol), 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one (Alpha-Isomethyl Ionone), 1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one (Delta-Damascone)

Hazard statements:

H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H412 - Harmful to aquatic life with long lasting effects.

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Precautionary statements:
P280 - Wear protective gloves.

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
ethanol	200-578-6	64-17-5	01-2119457610-43	Flam. Liq. 2 (H225)		10-20
alkyl alcohol ethoxylate	[4]	68439-46-3	[4]	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)		10-20
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	01-2119489989-04	Skin Irrit. 2 (H315) Skin Sens. 1B (H317)		1-3
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	01-2119970713-33	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 2 (H411)		0.1-1
cineole	207-431-5	470-82-6	01-2119967772-24	Flam. Liq. 3 (H226) Skin Sens. 1B (H317)		0.1-1
1,4-dioxacyclohexadecane-5,16-dione	259-423-6	54982-83-1	01-2119524000-64	Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)		0.1-1
butanone	201-159-0	78-93-3	-	Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319) EUH066		0.1-1
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	204-846-3	127-51-5	01-2120138569-45	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1B (H317) Aquatic Chronic 2 (H411)		0.1-1
tridec-2-enenitrile	245-142-6	22629-49-8	01-2120763556-45	Aquatic Acute 1 M=10 (H400) Aquatic Chronic 1 M=10 (H410)		0.01-0.1
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	260-709-8	57378-68-4	01-2119535122-53	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Skin Sens. 1A (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		0.01-0.1

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

ATE, if available, are listed in section 11.

[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

General Information:

Symptoms of intoxication may even occur after several hours. It is recommended to continue medical observation for at least 48 hours after the incident.

Inhalation:

Get medical attention or advice if you feel unwell.

Skin contact:

Take off immediately all contaminated clothing and wash it before reuse.

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:

May cause an allergic skin reaction.

Eye contact:

Causes severe irritation.

Ingestion:

No known effects or symptoms in normal use.

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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**

Wear suitable gloves.

6.2 Environmental precautions

Dilute with plenty of water. Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. 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

Dyke to collect large liquid spills. Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

6.4 Reference to other sections

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

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

No special precautions required.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash hands before breaks and at the end of workday. Take off contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Do not breathe spray. 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. 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)	Long term value(s)	Short term value(s)
ethanol		1000 ppm
butanone	200 ppm 600 mg/m ³	300 ppm 900 mg/m ³

Biological limit values, if available:

Recommended monitoring procedures, if available:

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

DNEL/DMEL and PNEC values**Human exposure**

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

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
ethanol	-	-	-	87
alkyl alcohol ethoxylate	-	-	-	-
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
2,6-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
cinole	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
butanone	No data available	No data available	No data available	No data available
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available	No data available	No data available	No data available
tridec-2-enitrile	No data available	No data available	No data available	No data available
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available	No data available	No data available	No data available

DNEL/DMEL dermal exposure - Worker

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
ethanol	-	-	-	343
alkyl alcohol ethoxylate	-	-	-	-
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
2,6-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
cinole	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
butanone	No data available	No data available	No data available	No data available
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available	No data available	No data available	No data available
tridec-2-enitrile	No data available	No data available	No data available	No data available
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available	No data available	No data available	No data available

DNEL/DMEL dermal exposure - Consumer

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
ethanol	-	-	-	206
alkyl alcohol ethoxylate	-	-	-	-
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
2,6-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
cinole	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
butanone	No data available	No data available	No data available	No data available
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available	No data available	No data available	No data available
tridec-2-enitrile	No data available	No data available	No data available	No data available
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available	No data available	No data available	No data available

DNEL/DMEL 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	-	-	-	-
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
2,6-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
cinole	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
butanone	No data available	No data available	No data available	No data available
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available	No data available	No data available	No data available
tridec-2-enitrile	No data available	No data available	No data available	No data available

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1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available	No data available	No data available	No data available
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DNEL/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	-	-	-	-
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
2,6-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
cineole	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
butanone	No data available	No data available	No data available	No data available
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-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
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	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	580
alkyl alcohol ethoxylate	-	-	-	-
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
2,6-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
cineole	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
butanone	No data available	No data available	No data available	No data available
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-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
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	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	-	-	-	-
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
2,6-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
cineole	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
butanone	No data available	No data available	No data available	No data available
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-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
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	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:

- 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.

REACH use scenarios considered for the undiluted product:

	SWED - Sector-specific worker exposure description	LCS	PROC	Duration (min)	ERC

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Automatic application in a dedicated system	AISE_SWED_PW_4_2	PW	PROC 4	480	ERC8a
Manual transfer and dilution	AISE_SWED_PW_8a_1	PW	PROC 8a	60	ERC8a
Automatic transfer and dilution	AISE_SWED_PW_8b_1	PW	PROC 8b	60	ERC8b

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: 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: ≥ 480 min Material thickness: ≥ 0.7 mm
Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 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 (% w/w): 10

Appropriate engineering controls: Provide a good standard of general ventilation.

Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel. Users are advised to consider national Occupational Exposure Limits or other equivalent values, if available.

REACH use scenarios considered for the diluted product:

	SWED	LCS	PROC	Duration (min)	ERC
Spray application	AISE_SWED_PW_11_1	PW	PROC 11	60	ERC8a
Manual application	AISE_SWED_PW_19_1	PW	PROC 19	480	ERC8a

Personal protective equipment

Eye / face protection: 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: Trigger spray bottle application: No special requirements under normal use conditions. Apply technical measures to comply with the occupational exposure limits, if available

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 , Light , from Colourless to Yellow	
Odour: Product specific	
Odour threshold: Not applicable	
Melting point/freezing point (°C): -4	Not relevant to classification of this product
Initial boiling point and boiling range (°C): Not determined	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		
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	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		
cineole	No data available		
1,4-dioxacyclohexadecane-5,16-dione	No data available		
butanone	No data available		
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available		

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tridec-2-enenitrile	No data available		
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available		

Method / remark

Flammability (solid, gas): Not applicable to liquids

Flammability (liquid): Not flammable.

Flash point (°C): > 37 °C

Sustained combustion: The product does not sustain combustion
(UN Manual of Tests and Criteria, section 32, L.2)

Lower and upper explosion limit/flammability limit (%): Not determined

closed cup

Weight of evidence

See substance data

Substance data, flammability or explosive limits, if available:

Method / remark

Autoignition temperature: Not determined

Decomposition temperature: Not applicable.

pH: ≈ 8 (neat)

Dilution pH: ≈ 8 (10 %)

Kinematic viscosity: ≈ 17 mPa.s (20 °C)

Solubility in / Miscibility with Water: Fully miscible

ISO 4316

ISO 4316

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
ethanol	No data available		
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		
2,6-dimethyloct-7-en-2-ol	No data available		
2-tert-butylcyclohexyl acetate	No data available		
alpha-hexylcinnamaldehyde	No data available		
cineole	No data available		
1,4-dioxacyclohexadecane-5,16-dione	No data available		
butanone	No data available		
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available		
tridec-2-enenitrile	No data available		
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available		

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

Method / remark

Vapour pressure: Not determined

See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
ethanol	5800	Method not given	
alkyl alcohol ethoxylate	10		37
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	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		
cineole	No data available		
1,4-dioxacyclohexadecane-5,16-dione	No data available		
butanone	No data available		
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available		
tridec-2-enenitrile	No data available		
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available		

Method / remark

Relative density: ≈ 0.98 (20 °C)

Relative vapour density: No data available.

Particle characteristics: No data available.

OECD 109 (EU A.3)

Not relevant to classification of this product

Not applicable to liquids.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

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

Oxidising properties: Not oxidising.

Corrosion to metals: Not corrosive

Weight of evidence

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9.2.2 Other safety characteristics

No other relevant information available.

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

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid

None known under normal storage and use conditions.

10.5 Incompatible materials

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)	ATE (mg/kg)
ethanol	LD ₅₀	5000	Rat	OECD 401 (EU B.1)		Not established
alkyl alcohol ethoxylate	LD ₅₀	> 300-2000	Rat	Method not given		12000
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				Not established
2,6-dimethyloct-7-en-2-ol		3600				250000
2-tert-butylcyclohexyl acetate		No data available				Not established
alpha-hexylcinnamaldehyde		3100				Not established
cineole		4500	Rat	OECD 401 (EU B.1)		1.2e+006
1,4-dioxacyclohexadecane-5,16-dione	LD ₅₀	4500	Rat	OECD 401 (EU B.1)		1.2e+006
butanone	LD ₅₀	3300	Rat	Method not given		910000
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		> 5000	Rat			Not established
tridec-2-enenitrile		No data available				Not established
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		No data available				720000

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
ethanol	LD ₅₀	> 10000	Rabbit	OECD 402 (EU B.3)		Not established
alkyl alcohol ethoxylate	LD ₅₀	> 2000	Rabbit	Method not given		Not established
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				Not established
2,6-dimethyloct-7-en-2-ol		No data available				Not established
2-tert-butylcyclohexyl acetate		No data available				Not established

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alpha-hexylcinnamaldehyde		No data available			Not established
cineole		No data available			Not established
1,4-dioxacyclohexadecane-5,16-dione		No data available			Not established
butanone		No data available			Not established
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available			Not established
tridec-2-enenitrile		No data available			Not established
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		No data available			Not established

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			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		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			
cineole		No data available			
1,4-dioxacyclohexadecane-5,16-dione		No data available			
butanone		No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available			
tridec-2-enenitrile		No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		No data available			

Acute inhalative toxicity, continued

Ingredient(s)	ATE - inhalation, dust (mg/l)	ATE - inhalation, mist (mg/l)	ATE - inhalation, vapour (mg/l)	ATE - inhalation, gas (mg/l)
ethanol	Not established	Not established	Not established	Not established
alkyl alcohol ethoxylate	Not established	Not established	Not established	Not established
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	Not established	Not established	Not established	Not established
2,6-dimethyloct-7-en-2-ol	Not established	Not established	Not established	Not established
2-tert-butylcyclohexyl acetate	Not established	Not established	Not established	Not established
alpha-hexylcinnamaldehyde	Not established	Not established	Not established	Not established
cineole	Not established	Not established	Not established	Not established
1,4-dioxacyclohexadecane-5,16-dione	Not established	Not established	Not established	Not established
butanone	Not established	Not established	300000	Not established
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	Not established	Not established	Not established	Not established
tridec-2-enenitrile	Not established	Not established	Not established	Not established
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	Not established	Not established	Not established	Not established

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
ethanol	Not irritant	Rabbit	OECD 404 (EU B.4)	
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			
2,6-dimethyloct-7-en-2-ol	No data available			
2-tert-butylcyclohexyl acetate	No data available			
alpha-hexylcinnamaldehyde	No data available			
cineole	No data available			
1,4-dioxacyclohexadecane-5,16-dione	No data available			
butanone	No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available			
tridec-2-enenitrile	No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available			

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Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
ethanol	Irritant	Rabbit	OECD 405 (EU B.5)	
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			
2,6-dimethyloct-7-en-2-ol	No data available			
2-tert-butylcyclohexyl acetate	No data available			
alpha-hexylcinnamaldehyde	No data available			
cineole	No data available			
1,4-dioxacyclohexadecane-5,16-dione	No data available			
butanone	No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available			
tridec-2-enenitrile	No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	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			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	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			
cineole	No data available			
1,4-dioxacyclohexadecane-5,16-dione	No data available			
butanone	No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available			
tridec-2-enenitrile	No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
ethanol	Not sensitising			
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			
2,6-dimethyloct-7-en-2-ol	No data available			
2-tert-butylcyclohexyl acetate	No data available			
alpha-hexylcinnamaldehyde	No data available			
cineole	No data available			
1,4-dioxacyclohexadecane-5,16-dione	No data available			
butanone	No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available			
tridec-2-enenitrile	No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
ethanol	No data available			
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			
2,6-dimethyloct-7-en-2-ol	No data available			
2-tert-butylcyclohexyl acetate	No data available			
alpha-hexylcinnamaldehyde	No data available			
cineole	No data available			
1,4-dioxacyclohexadecane-5,16-dione	No data available			
butanone	No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available			
tridec-2-enenitrile	No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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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	
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	
2,6-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	
cineole	No data available		No data available	
1,4-dioxacyclohexadecane-5,16-dione	No data available		No data available	
butanone	No data available		No data available	
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available		No data available	
tridec-2-enenitrile	No data available		No data available	
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
ethanol	No data available
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
2,6-dimethyloct-7-en-2-ol	No data available
2-tert-butylcyclohexyl acetate	No data available
alpha-hexylcinnamaldehyde	No data available
cineole	No data available
1,4-dioxacyclohexadecane-5,16-dione	No data available
butanone	No data available
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available
tridec-2-enenitrile	No data available
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	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
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one			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				
cineole			No data available				
1,4-dioxacyclohexadecane-5,16-dione			No data available				
butanone			No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one			No data available				
tridec-2-enenitrile			No data available				
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one			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				

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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				
2,6-dimethyloct-7-en-2-ol		No data available				
2-tert-butylcyclohexyl acetate		No data available				
alpha-hexylcinnamaldehyde		No data available				
cineole		No data available				
1,4-dioxacyclohexadecane-5,16-dione		No data available				
butanone		No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available				
tridec-2-enenitrile		No data available				
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		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
ethanol		No data available				
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				
2,6-dimethyloct-7-en-2-ol		No data available				
2-tert-butylcyclohexyl acetate		No data available				
alpha-hexylcinnamaldehyde		No data available				
cineole		No data available				
1,4-dioxacyclohexadecane-5,16-dione		No data available				
butanone		No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available				
tridec-2-enenitrile		No data available				
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		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				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		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				
cineole		No data available				
1,4-dioxacyclohexadecane-5,16-dione		No data available				
butanone		No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available				
tridec-2-enenitrile		No data available				
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		No data available				

Chronic toxicity

Ingredient(s)	Exposure	Endpoint	Value	Species	Method	Exposure	Specific effects and	Remark
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	route		(mg/kg bw/d)		time	organs affected	
ethanol			No data available				
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				
2,6-dimethyloct-7-en-2-ol			No data available				
2-tert-butylcyclohexyl acetate			No data available				
alpha-hexylcinnamaldehyde			No data available				
cineole			No data available				
1,4-dioxacyclohexadecane-5,16-dione			No data available				
butanone			No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one			No data available				
tridec-2-enenitrile			No data available				
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one			No data available				

STOT-single exposure

Ingredient(s)	Affected organ(s)
ethanol	No data available
alkyl alcohol ethoxylate	Not applicable
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	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
cineole	No data available
1,4-dioxacyclohexadecane-5,16-dione	No data available
butanone	No data available
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available
tridec-2-enenitrile	No data available
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
ethanol	No data available
alkyl alcohol ethoxylate	Not applicable
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	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
cineole	No data available
1,4-dioxacyclohexadecane-5,16-dione	No data available
butanone	No data available
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available
tridec-2-enenitrile	No data available
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available

Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3.

Potential adverse health effects and symptoms

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

11.2 Information on other hazards**11.2.1 Endocrine disrupting properties**

Endocrine disrupting properties - Human data, if available:

11.2.2 Other information

No other relevant information available.

SECTION 12: Ecological information**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	Fish	OECD 203 (EU C.1)	96
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	LC ₅₀	1.3	<i>Lepomis macrochirus</i>	OECD 203, semi-static	96
2,6-dimethyloct-7-en-2-ol	LC ₅₀	27.8	<i>Oncorhynchus mykiss</i>	OECD 203, static	96
2-tert-butylcyclohexyl acetate		No data available			
alpha-hexylcinnamaldehyde		No data available			
cineole		No data available			
1,4-dioxacyclohexadecane-5,16-dione		No data available			
butanone	LC ₅₀	3220	<i>Pimephales promelas</i>	Method not given	96
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available			
tridec-2-enenitrile		No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		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
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	EC ₅₀	1.38	<i>Daphnia</i>	OECD 202, semi-static	48
2,6-dimethyloct-7-en-2-ol	EC ₅₀	38	<i>Daphnia</i>	OECD 202, static	48
2-tert-butylcyclohexyl acetate		No data available			
alpha-hexylcinnamaldehyde		No data available			
cineole		No data available			
1,4-dioxacyclohexadecane-5,16-dione		No data available			
butanone	EC ₅₀	5091	<i>Daphnia magna Straus</i>	Method not given	48
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available			
tridec-2-enenitrile		No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
ethanol	EC ₀	5000	<i>Scenedesmus quadricauda</i>	Method not given	168
alkyl alcohol ethoxylate	EC ₅₀	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	EC ₅₀	> 2.6	<i>Desmodesmus subspicatus</i>	OECD 201, static	72
2,6-dimethyloct-7-en-2-ol	E _b C ₅₀	65	<i>Desmodesmus subspicatus</i>	OECD 201, static	72
2-tert-butylcyclohexyl acetate		No data available			
alpha-hexylcinnamaldehyde		No data available			
cineole		No data			

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		available			
1,4-dioxacyclohexadecane-5,16-dione		No data available			
butanone	IC ₅₀	4300	<i>Scenedesmus quadricauda</i>	Method not given	168
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available			
tridec-2-enenitrile		No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		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			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		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			
cineole		No data available			
1,4-dioxacyclohexadecane-5,16-dione		No data available			
butanone		No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available			
tridec-2-enenitrile		No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		No data available			

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	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		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			
cineole		No data available			
1,4-dioxacyclohexadecane-5,16-dione		No data available			
butanone	EC ₅	1150	<i>Pseudomonas putida</i>	Method not given	16 hour(s)
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available			
tridec-2-enenitrile		No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		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)	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				
2,6-dimethyloct-7-en-2-ol		No data available				

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2-tert-butylcyclohexyl acetate		No data available				
alpha-hexylcinnamaldehyde		No data available				
cineole		No data available				
1,4-dioxacyclohexadecane-5,16-dione		No data available				
butanone		No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available				
tridec-2-enenitrile		No data available				
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		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)	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		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				
cineole		No data available				
1,4-dioxacyclohexadecane-5,16-dione		No data available				
butanone		No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available				
tridec-2-enenitrile		No data available				
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		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				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		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				
cineole		No data available				
1,4-dioxacyclohexadecane-5,16-dione		No data available				
butanone		No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one		No data available				
tridec-2-enenitrile		No data available				
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one		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 ₅₀	Method	Evaluation
ethanol	Activated sludge, aerobe	Oxygen depletion	> 60% in 10 day(s)	OECD 301B	Readily biodegradable
alkyl alcohol ethoxylate			80%	Method not given	Readily biodegradable
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one					Not 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.
cineole				OECD 301F	Readily biodegradable
1,4-dioxacyclohexadecane-5,16-dione				OECD 301B	Readily biodegradable
butanone				OECD 301D	Readily biodegradable
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one				OECD 301B	Not readily biodegradable.
tridec-2-enenitrile					Not readily biodegradable.
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one					No data available

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log K_{ow})

Ingredient(s)	Value	Method	Evaluation	Remark
ethanol	-0.31	Weight of evidence	No bioaccumulation expected	
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			
2,6-dimethyloct-7-en-2-ol	No data available			
2-tert-butylcyclohexyl acetate	No data available			
alpha-hexylcinnamaldehyde	No data available			
cineole	No data available			
1,4-dioxacyclohexadecane-5,16-dione	No data available			
butanone	No data available			
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available			
tridec-2-enenitrile	No data available			
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
ethanol	0.5		Weight of evidence	No bioaccumulation expected	
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				
2,6-dimethyloct-7-en-2-	No data available				

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ol					
2-tert-butylcyclohexyl acetate	No data available				
alpha-hexylcinnamaldehyde	No data available				
cineole	No data available				
1,4-dioxacyclohexadecane-5,16-dione	No data available				
butanone	No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available				
tridec-2-enenitrile	No data available				
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	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
ethanol	No data available				
alkyl alcohol ethoxylate	No data available				High potential for mobility in soil
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	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				
cineole	No data available				
1,4-dioxacyclohexadecane-5,16-dione	No data available				
butanone	No data available				
3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-3-buten-2-one	No data available				
tridec-2-enenitrile	No data available				
1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	No data available				

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Endocrine disrupting properties - Environmental effects, if available:

12.7 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Waste from residues / unused products:**

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

European Waste Catalogue:

20 01 29* - detergents containing dangerous substances.

Empty packaging**Recommendation:**

Dispose of observing national or local regulations.

Suitable cleaning agents:

Water, if necessary with cleaning agent.

SECTION 14: Transport information**Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)****14.1 UN number:** 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
- substances identified as having endocrine disrupting properties in accordance with the criteria set out in Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code

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

Seveso - Classification: Not classified

15.2 Chemical safety assessment

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

SECTION 16: Other information

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

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This data sheet contains changes from the previous version in section(s):, 1, 2, 8, 12, 16, Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006

Classification procedure

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

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

- H225 - Highly flammable liquid and vapour.
- H226 - Flammable liquid and vapour.
- 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.
- H320 - Causes 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.
- H412 - Harmful to aquatic life with long lasting effects.
- EUH066 - Repeated exposure may cause skin dryness or cracking.

Abbreviations and acronyms:

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- ATE - Acute Toxicity Estimate
- DNEL - Derived No Effect Limit
- EC50 - effective concentration, 50%
- ERC - Environmental release categories
- EUH - CLP Specific hazard statement
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LCS - Life cycle stage
- LD50 - Lethal Dose, 50% / Median Lethal dose
- NOAEL - No observed adverse effect level
- NOEL - No observed effect level
- OECD - Organisation for Economic Cooperation and Development
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- PROC - Process categories
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative

End of Safety Data Sheet