



## Good Sense Fresh O3c

Revision: 2023-03-10

Version: 01.0

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

#### 1.1 Product identifier

**Trade name:** Good Sense Fresh O3c

UFI: HU9H-412D-G00Y-7UC1

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

**Product use:** Odor Control - Continuous 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\_11\_2

#### 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

Seek medical advice (show the label or safety data sheet where possible)  
For medical or environmental emergency only:  
call 0800 052 0185

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Aerosol 1 (H222)  
Skin Sens. 1 (H317)  
Aquatic Chronic 3 (H412)

#### 2.2 Label elements



**Signal word:** Danger.

Contains alpha-hexylcinnamaldehyde (Hexyl Cinnamal), benzyl salicylate (Benzyl Salicylate), [3R-(3 $\alpha$ ,3 $\alpha\beta$ ,7 $\beta$ ,8 $\alpha\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one (Acetyl Cedrene), 4-tert-butylcyclohexyl acetate (4-tert-butylcyclohexyl acetate), (Z)-3-hexenyl salicylate (Cis-3-Hexenyl Salicylate), d-limonene (Limonene)

#### Hazard statements:

H222 - Extremely flammable aerosol.  
H229 - Pressurised container: May burst if heated.  
H317 - May cause an allergic skin reaction.  
H412 - Harmful to aquatic life with long lasting effects.

#### Precautionary statements:

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 - Do not spray on an open flame or other ignition source.  
P251 - Do not pierce or burn, even after use.

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P280 - Wear protective gloves.

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

### 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)		30-50
butane	203-448-7	106-97-8	01-2119474691-32	Flam. Gas 1 (H220) Press. Gas (Comp.) (H280)		30-50
propane	200-827-9	74-98-6	01-2119486944-21	Flam. Gas 1 (H220) Press. Gas (Comp.) (H280)		10-20
Propan-2-ol	200-661-7	67-63-0	01-2119457558-25	Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319)		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)		1-3
benzyl salicylate	204-262-9	118-58-1	01-2119969442-31	Eye Irrit. 2 (H319) Skin Sens. 1B (H317) 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
isobutane	200-857-2	75-28-5	01-2119485395-27	Flam. Gas 1 (H220) Press. Gas (Comp.) (H280)		0.1-1
4-tert-butylcyclohexyl acetate	250-954-9	32210-23-4	01-2119976286-24	Skin Sens. 1B (H317) Aquatic Chronic 2 (H411)		0.1-1
pentyl salicylate	218-080-2	2050-08-0	01-2119969444-27	Acute Tox. 4 (H302) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		0.1-1
[3R-(3α,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	251-020-3	32388-55-9	01-2119969651-28	Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		0.1-1
(Z)-3-hexenyl salicylate	265-745-8	65405-77-8	01-2119987320-37	Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		0.1-1
d-limonene	227-813-5	5989-27-5	01-2119529223-47	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)		0.1-1
4-methylpentan-2-one	203-550-1	108-10-1	-	Flam. Liq. 2 (H225) Carc. 2 (H351) Acute Tox. 4 (H332) STOT SE 3 (H335) STOT SE 3 (H336) Eye Irrit. 2 (H319) EUH066		0.1-1
7-hydroxycitronellal	203-518-7	107-75-5	01-2119973482-31	Eye Irrit. 2 (H319) Skin Sens. 1B (H317)		0.1-1

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

ATE, if available, are listed in section 11.

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.

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<b>Inhalation:</b>	Get medical attention or advice if you feel unwell.
<b>Skin contact:</b>	Take off immediately all contaminated clothing and wash it before reuse.
<b>Eye contact:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Ingestion:</b>	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.
<b>Self-protection of first aider:</b>	Consider personal protective equipment as indicated in subsection 8.2.

**4.2 Most important symptoms and effects, both acute and delayed**

<b>Inhalation:</b>	No known effects or symptoms in normal use.
<b>Skin contact:</b>	May cause an allergic skin reaction. Direct contact can damage skin by freezing.
<b>Eye contact:</b>	Direct contact can damage the eye by freezing.
<b>Ingestion:</b>	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. Sand. Alcohol-resistant foam. Do not use water.

**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**

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). Absorb liquid components with liquid-binding material. 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:**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50° C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Use non-sparking tools.

**Measures to prevent aerosol and dust generation:**

Avoid formation of aerosol.

**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. 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. Keep away from heat and direct sunlight.

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

Comah - Lower Tier requirements (tonnes): 150

Comah - Upper Tier requirements (tonnes): 500

**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 <sup>3</sup>	3000 ppm 5760 mg/m <sup>3</sup>
butane	600 ppm 1450 mg/m <sup>3</sup>	750 ppm 1810 mg/m <sup>3</sup>
Propan-2-ol	400 ppm 999 mg/m <sup>3</sup>	500 ppm 1250 mg/m <sup>3</sup>
butanone	200 ppm 600 mg/m <sup>3</sup>	300 ppm 899 mg/m <sup>3</sup>
4-methylpentan-2-one	50 ppm 208 mg/m <sup>3</sup>	100 ppm 416 mg/m <sup>3</sup>

Biological limit values, if available:

**Recommended monitoring procedures, if available:****Additional exposure limits under the conditions of use, if available:****DNEL/DMEL and PNEC values****Human exposure**

DNEL/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
butane	No data available	No data available	No data available	No data available
propane	No data available	No data available	No data available	No data available
Propan-2-ol	-	-	-	26
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
benzyl salicylate	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
isobutane	No data available	No data available	No data available	No data available
4-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
pentyl salicylate	No data available	No data available	No data available	No data available
[3R-(3α,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available	No data available	No data available	No data available
(Z)-3-hexenyl salicylate	No data available	No data available	No data available	No data available
d-limonene	-	-	-	4.76
4-methylpentan-2-one	No data available	No data available	No data available	No data available
7-hydroxycitronellal	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
butane	No data available	No data available	No data available	No data available
propane	No data available	No data available	No data available	No data available
Propan-2-ol	-	-	-	888
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
benzyl salicylate	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
isobutane	No data available	No data available	No data available	No data available
4-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
pentyl salicylate	No data available	No data available	No data available	No data available
[3R-(3α,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available	No data available	No data available	No data available
(Z)-3-hexenyl salicylate	No data available	No data available	No data available	No data available
d-limonene	0.222 mg/cm <sup>2</sup> skin	-	No data available	-
4-methylpentan-2-one	No data available	No data available	No data available	No data available
7-hydroxycitronellal	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
butane	No data available	No data available	No data available	No data available
propane	No data available	No data available	No data available	No data available
Propan-2-ol	-	-	-	319
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
benzyl salicylate	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
isobutane	No data available	No data available	No data available	No data available
4-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
pentyl salicylate	No data available	No data available	No data available	No data available
[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available	No data available	No data available	No data available
(Z)-3-hexenyl salicylate	No data available	No data available	No data available	No data available
d-limonene	0.111 mg/cm <sup>2</sup> skin	-	No data available	-
4-methylpentan-2-one	No data available	No data available	No data available	No data available
7-hydroxycitronellal	No data available	No data available	No data available	No data available

DNEL/DMEL inhalatory exposure - Worker (mg/m<sup>3</sup>)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
ethanol	1900	-	-	950
butane	No data available	No data available	No data available	No data available
propane	No data available	No data available	No data available	No data available
Propan-2-ol	-	-	-	500
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
benzyl salicylate	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
isobutane	No data available	No data available	No data available	No data available
4-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
pentyl salicylate	No data available	No data available	No data available	No data available
[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available	No data available	No data available	No data available
(Z)-3-hexenyl salicylate	No data available	No data available	No data available	No data available
d-limonene	-	-	-	33.3
4-methylpentan-2-one	No data available	No data available	No data available	No data available
7-hydroxycitronellal	No data available	No data available	No data available	No data available

DNEL/DMEL inhalatory exposure - Consumer (mg/m<sup>3</sup>)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
ethanol	950	-	-	114
butane	No data available	No data available	No data available	No data available
propane	No data available	No data available	No data available	No data available
Propan-2-ol	-	-	-	89
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
benzyl salicylate	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
isobutane	No data available	No data available	No data available	No data available
4-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
pentyl salicylate	No data available	No data available	No data available	No data available
[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available	No data available	No data available	No data available
(Z)-3-hexenyl salicylate	No data available	No data available	No data available	No data available
d-limonene	-	-	-	8.33
4-methylpentan-2-one	No data available	No data available	No data available	No data available
7-hydroxycitronellal	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
butane	No data available	No data available	No data available	No data available
propane	No data available	No data available	No data available	No data available
Propan-2-ol	140.9	140.9	140.9	2251
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
benzyl salicylate	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
isobutane	No data available	No data available	No data available	No data available
4-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available

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pentyl salicylate	No data available	No data available	No data available	No data available
[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available	No data available	No data available	No data available
(Z)-3-hexenyl salicylate	No data available	No data available	No data available	No data available
d-limonene	0.014	0.0014	-	1.8
4-methylpentan-2-one	No data available	No data available	No data available	No data available
7-hydroxycitronellal	No data available	No data available	No data available	No data available

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m <sup>3</sup> )
ethanol	3.6	2.9	0.63	-
butane	No data available	No data available	No data available	No data available
propane	No data available	No data available	No data available	No data available
Propan-2-ol	552	552	28	-
alpha-hexylcinnamaldehyde	No data available	No data available	No data available	No data available
benzyl salicylate	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
isobutane	No data available	No data available	No data available	No data available
4-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
pentyl salicylate	No data available	No data available	No data available	No data available
[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available	No data available	No data available	No data available
(Z)-3-hexenyl salicylate	No data available	No data available	No data available	No data available
d-limonene	3.85	0.385	0.763	-
4-methylpentan-2-one	No data available	No data available	No data available	No data available
7-hydroxycitronellal	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:** 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 undiluted product:

	SWED - Sector-specific worker exposure description	LCS	PROC	Duration (min)	ERC
Spray application	AISE_SWED_PW_11_2	PW	PROC 11	60	ERC8a

## 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:  $\geq 480$  min Material thickness:  $\geq 0.7$  mm

Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time:  $\geq 30$  min Material thickness:  $\geq 0.4$  mm

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

## Body protection:

No special requirements under normal use conditions.

## Respiratory protection:

Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided. 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

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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:** Product specific

**Odour threshold:** Not applicable

**Melting point/freezing point (°C):** Not determined

**Initial boiling point and boiling range (°C):** Not determined

## Method / remark

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	
butane	No data available		
propane	No data available		
Propan-2-ol	82	Method not given	1013
alpha-hexylcinnamaldehyde	No data available		
benzyl salicylate	No data available		
butanone	No data available		
isobutane	No data available		
4-tert-butylcyclohexyl acetate	No data available		
pentyl salicylate	No data available		
[3R-(3α,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available		
(Z)-3-hexenyl salicylate	No data available		
d-limonene	175-178	Weight of evidence	1013
4-methylpentan-2-one	No data available		
7-hydroxycitronellal	No data available		

## Method / remark

**Flammability (solid, gas):** Not applicable to liquids

**Flammability (liquid):** Not applicable. Not flammable.

**Flash point (°C):** Not applicable as product is an aerosol

**Sustained combustion:** Not applicable.

( UN Manual of Tests and Criteria, section 32, L.2 )

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

See substance data

Substance data, flammability or explosive limits, if available:

Ingredient(s)	Lower limit (% vol)	Upper limit (% vol)
Propan-2-ol	2	13
d-limonene	0.7	6.1

## Method / remark

**Autoignition temperature:** Not determined

**Decomposition temperature:** Not applicable.

**pH:** Not applicable No information available.

**Kinematic viscosity:** Not determined

**Solubility in / Miscibility with water:** Not miscible or difficult to mix

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
ethanol	No data available		
butane	No data available		
propane	No data available		
Propan-2-ol	Soluble	Method not given	
alpha-hexylcinnamaldehyde	No data available		
benzyl salicylate	No data available		
butanone	No data available		
isobutane	No data available		
4-tert-butylcyclohexyl acetate	No data available		
pentyl salicylate	No data available		
[3R-(3α,3aβ,7β,8aα)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available		
(Z)-3-hexenyl salicylate	No data available		
d-limonene	Insoluble	Method not given	20
4-methylpentan-2-one	No data available		
7-hydroxycitronellal	No data available		

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

**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	
butane	No data available		
propane	No data available		
Propan-2-ol	4200	Method not given	20
alpha-hexylcinnamaldehyde	No data available		
benzyl salicylate	No data available		
butanone	No data available		
isobutane	No data available		
4-tert-butylcyclohexyl acetate	No data available		
pentyl salicylate	No data available		
[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available		
(Z)-3-hexenyl salicylate	No data available		
d-limonene	190-230	Method not given	20
4-methylpentan-2-one	No data available		
7-hydroxycitronellal	No data available		

**Relative density:**  $\approx$  0.83 (20 °C)

**Relative vapour density:** No data available.

**Particle characteristics:** No data available.

**Method / remark**

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:** Vapours may form explosive mixtures with air. Not explosive.

**Oxidising properties:** Not oxidising.

**Corrosion to metals:** Not corrosive

**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 hazard classes as defined in Regulation (EC) No 1272/2008**

Mixture data:

**Relevant calculated ATE(s):**

ATE - Oral (mg/kg): >2000



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 <sub>50</sub>	5000	Rat	OECD 401 (EU B.1)		Not established
butane		No data available				Not established
propane		No data available				Not established
Propan-2-ol	LD <sub>50</sub>	5840	Rat	OECD 401 (EU B.1)		Not established
alpha-hexylcinnamaldehyde		3100				Not established
benzyl salicylate	LD <sub>50</sub>	> 2000		Method not given		Not established
butanone	LD <sub>50</sub>	3300	Rat	Method not given		3300
isobutane		No data available				Not established
4-tert-butylcyclohexyl acetate		3370	Rat	Method not given		3370
pentyl salicylate		2000				1.6e+006
[3R-(3α,3αβ,7β,8α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one		No data available				Not established
(Z)-3-hexenyl salicylate		No data available				Not established
d-limonene	LD <sub>50</sub>	4400 - 5100	Rat	Method not given		4400
4-methylpentan-2-one		No data available				Not established
7-hydroxycitronellal		No data available				Not established

##### Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
ethanol	LD <sub>50</sub>	> 10000	Rabbit	OECD 402 (EU B.3)		Not established
butane		No data available				Not established
propane		No data available				Not established
Propan-2-ol	LD <sub>50</sub>	> 2000	Rabbit	Method not given		Not established
alpha-hexylcinnamaldehyde		No data available				Not established
benzyl salicylate		No data available				Not established
butanone		No data available				Not established
isobutane		No data available				Not established
4-tert-butylcyclohexyl acetate		No data available				Not established
pentyl salicylate		No data available				Not established
[3R-(3α,3αβ,7β,8α)]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one		No data available				Not established
(Z)-3-hexenyl salicylate		No data available				Not established
d-limonene	LD <sub>50</sub>	> 5000	Rabbit	Method not given		Not established
4-methylpentan-2-one		No data available				Not established
7-hydroxycitronellal		No data available				Not established

##### Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
ethanol	LC <sub>50</sub>	> 1800	Rat	Non guideline test	4
butane		No data available			
propane		No data available			
Propan-2-ol	LC <sub>50</sub>	> 25 (vapour)	Rat	OECD 403 (EU B.2)	6
alpha-hexylcinnamaldehyde		No data available			
benzyl salicylate		No data available			

butanone		No data available		
isobutane		No data available		
4-tert-butylcyclohexyl acetate		No data available		
pentyl salicylate		No data available		
[3R-(3 $\alpha$ ,3 $\alpha$ $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one		No data available		
(Z)-3-hexenyl salicylate		No data available		
d-limonene		No data available		
4-methylpentan-2-one		No data available		
7-hydroxycitronellal		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
butane	Not established	Not established	Not established	Not established
propane	Not established	Not established	Not established	Not established
Propan-2-ol	Not established	Not established	Not established	Not established
alpha-hexylcinnamaldehyde	Not established	Not established	Not established	Not established
benzyl salicylate	Not established	Not established	Not established	Not established
butanone	Not established	Not established	100000	Not established
isobutane	Not established	Not established	Not established	Not established
4-tert-butylcyclohexyl acetate	Not established	Not established	Not established	Not established
pentyl salicylate	Not established	Not established	Not established	Not established
[3R-(3 $\alpha$ ,3 $\alpha$ $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	Not established	Not established	Not established	Not established
(Z)-3-hexenyl salicylate	Not established	Not established	Not established	Not established
d-limonene	Not established	Not established	Not established	Not established
4-methylpentan-2-one	Not established	Not established	11	Not established
7-hydroxycitronellal	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)	
butane	No data available			
propane	No data available			
Propan-2-ol	Not irritant	Rabbit	OECD 404 (EU B.4)	
alpha-hexylcinnamaldehyde	No data available			
benzyl salicylate	No data available			
butanone	No data available			
isobutane	No data available			
4-tert-butylcyclohexyl acetate	No data available			
pentyl salicylate	No data available			
[3R-(3 $\alpha$ ,3 $\alpha$ $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available			
(Z)-3-hexenyl salicylate	No data available			
d-limonene	Irritant	Rabbit	Method not given	
4-methylpentan-2-one	No data available			
7-hydroxycitronellal	No data available			

## Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
ethanol	Irritant	Rabbit	OECD 405 (EU B.5)	
butane	No data available			
propane	No data available			
Propan-2-ol	Irritant	Rabbit	OECD 405 (EU B.5)	
alpha-hexylcinnamaldehyde	No data available			
benzyl salicylate	No data available			
butanone	No data available			
isobutane	No data available			
4-tert-butylcyclohexyl acetate	No data available			

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pentyl salicylate	No data available			
[3R-(3 $\alpha$ ,3 $\alpha\beta$ ,7 $\beta$ ,8 $\alpha\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available			
(Z)-3-hexenyl salicylate	No data available			
d-limonene	No data available			
4-methylpentan-2-one	No data available			
7-hydroxycitronellal	No data available			

## Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
ethanol	No data available			
butane	No data available			
propane	No data available			
Propan-2-ol	No data available			
alpha-hexylcinnamaldehyde	No data available			
benzyl salicylate	No data available			
butanone	No data available			
isobutane	No data available			
4-tert-butylcyclohexyl acetate	No data available			
pentyl salicylate	No data available			
[3R-(3 $\alpha$ ,3 $\alpha\beta$ ,7 $\beta$ ,8 $\alpha\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available			
(Z)-3-hexenyl salicylate	No data available			
d-limonene	No data available			
4-methylpentan-2-one	No data available			
7-hydroxycitronellal	No data available			

## Sensitisation

## Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
ethanol	Not sensitising			
butane	No data available			
propane	No data available			
Propan-2-ol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
alpha-hexylcinnamaldehyde	No data available			
benzyl salicylate	No data available			
butanone	No data available			
isobutane	No data available			
4-tert-butylcyclohexyl acetate	No data available			
pentyl salicylate	No data available			
[3R-(3 $\alpha$ ,3 $\alpha\beta$ ,7 $\beta$ ,8 $\alpha\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available			
(Z)-3-hexenyl salicylate	No data available			
d-limonene	Sensitising	Guinea pig	Method not given	
4-methylpentan-2-one	No data available			
7-hydroxycitronellal	No data available			

## Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
ethanol	No data available			
butane	No data available			
propane	No data available			
Propan-2-ol	No data available			
alpha-hexylcinnamaldehyde	No data available			
benzyl salicylate	No data available			
butanone	No data available			
isobutane	No data available			
4-tert-butylcyclohexyl acetate	No data available			
pentyl salicylate	No data available			
[3R-(3 $\alpha$ ,3 $\alpha\beta$ ,7 $\beta$ ,8 $\alpha\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available			
(Z)-3-hexenyl salicylate	No data available			
d-limonene	No data available			
4-methylpentan-2-one	No data available			
7-hydroxycitronellal	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	
butane	No data available		No data available	
propane	No data available		No data available	
Propan-2-ol	No evidence for mutagenicity, negative test results No evidence of genotoxicity, negative test results	OECD 471 (EU B.12/13)	No evidence of genotoxicity, negative test results	OECD 474 (EU B.12)
alpha-hexylcinnamaldehyde	No data available		No data available	
benzyl salicylate	No data available		No data available	
butanone	No data available		No data available	
isobutane	No data available		No data available	
4-tert-butylcyclohexyl acetate	No data available		No data available	
pentyl salicylate	No data available		No data available	
[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available		No data available	
(Z)-3-hexenyl salicylate	No data available		No data available	
d-limonene	No data available		No data available	
4-methylpentan-2-one	No data available		No data available	
7-hydroxycitronellal	No data available		No data available	

## Carcinogenicity

Ingredient(s)	Effect
ethanol	No data available
butane	No data available
propane	No data available
Propan-2-ol	No evidence for carcinogenicity, negative test results
alpha-hexylcinnamaldehyde	No data available
benzyl salicylate	No data available
butanone	No data available
isobutane	No data available
4-tert-butylcyclohexyl acetate	No data available
pentyl salicylate	No data available
[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available
(Z)-3-hexenyl salicylate	No data available
d-limonene	No data available
4-methylpentan-2-one	No data available
7-hydroxycitronellal	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				
butane			No data available				
propane			No data available				
Propan-2-ol			No data available				
alpha-hexylcinnamaldehyde			No data available				
benzyl salicylate			No data available				
butanone			No data available				
isobutane			No data available				
4-tert-butylcyclohexyl acetate			No data available				
pentyl salicylate			No data available				
[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one			No data available				
(Z)-3-hexenyl salicylate			No data				

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			available				
d-limonene			No data available				
4-methylpentan-2-one			No data available				
7-hydroxycitronellal			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				
butane		No data available				
propane		No data available				
Propan-2-ol		No data available				
alpha-hexylcinnamaldehyde		No data available				
benzyl salicylate		No data available				
butanone		No data available				
isobutane		No data available				
4-tert-butylcyclohexyl acetate		No data available				
pentyl salicylate		No data available				
[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one		No data available				
(Z)-3-hexenyl salicylate		No data available				
d-limonene		No data available				
4-methylpentan-2-one		No data available				
7-hydroxycitronellal		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				
butane		No data available				
propane		No data available				
Propan-2-ol		No data available				
alpha-hexylcinnamaldehyde		No data available				
benzyl salicylate		No data available				
butanone		No data available				
isobutane		No data available				
4-tert-butylcyclohexyl acetate		No data available				
pentyl salicylate		No data available				
[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one		No data available				
(Z)-3-hexenyl salicylate		No data available				
d-limonene		No data available				
4-methylpentan-2-one		No data available				
7-hydroxycitronellal		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
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	(mg/kg bw/d)	time (days)	affected
ethanol	No data available		
butane	No data available		
propane	No data available		
Propan-2-ol	No data available		
alpha-hexylcinnamaldehyde	No data available		
benzyl salicylate	No data available		
butanone	No data available		
isobutane	No data available		
4-tert-butylcyclohexyl acetate	No data available		
pentyl salicylate	No data available		
[3R-(3 $\alpha$ ,3 $\alpha$ $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available		
(Z)-3-hexenyl salicylate	No data available		
d-limonene	No data available		
4-methylpentan-2-one	No data available		
7-hydroxycitronellal	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					
butane			No data available					
propane			No data available					
Propan-2-ol			No data available					
alpha-hexylcinnamaldehyde			No data available					
benzyl salicylate			No data available					
butanone			No data available					
isobutane			No data available					
4-tert-butylcyclohexyl acetate			No data available					
pentyl salicylate			No data available					
[3R-(3 $\alpha$ ,3 $\alpha$ $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one			No data available					
(Z)-3-hexenyl salicylate			No data available					
d-limonene			No data available					
4-methylpentan-2-one			No data available					
7-hydroxycitronellal			No data available					

## STOT-single exposure

Ingredient(s)	Affected organ(s)
ethanol	No data available
butane	No data available
propane	No data available
Propan-2-ol	Central nervous system
alpha-hexylcinnamaldehyde	No data available
benzyl salicylate	No data available
butanone	No data available
isobutane	No data available

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4-tert-butylcyclohexyl acetate	No data available
pentyl salicylate	No data available
[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available
(Z)-3-hexenyl salicylate	No data available
d-limonene	No data available
4-methylpentan-2-one	No data available
7-hydroxycitronellal	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
ethanol	No data available
butane	No data available
propane	No data available
Propan-2-ol	No data available
alpha-hexylcinnamaldehyde	No data available
benzyl salicylate	No data available
butanone	No data available
isobutane	No data available
4-tert-butylcyclohexyl acetate	No data available
pentyl salicylate	No data available
[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available
(Z)-3-hexenyl salicylate	No data available
d-limonene	No data available
4-methylpentan-2-one	No data available
7-hydroxycitronellal	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 <sub>50</sub>	8150	<i>Alburnus alburnus</i>	Method not given	96
butane		No data available			
propane		No data available			
Propan-2-ol	LC <sub>50</sub>	> 100	<i>Pimephales promelas</i>	Method not given	48
alpha-hexylcinnamaldehyde		No data available			
benzyl salicylate		No data available			
butanone	LC <sub>50</sub>	3220	<i>Pimephales promelas</i>	Method not given	96
isobutane		No data available			
4-tert-butylcyclohexyl acetate		No data available			
pentyl salicylate		No data available			

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		available			
[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one		No data available			
(Z)-3-hexenyl salicylate		No data available			
d-limonene	LC <sub>50</sub>	0.72	<i>Pimephales promelas</i>	OECD 203 (EU C.1)	96
4-methylpentan-2-one		No data available			
7-hydroxycitronellal		No data available			

## Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
ethanol	EC <sub>50</sub>	5012	<i>Daphnia magna Straus</i>	Method not given	48
butane		No data available			
propane		No data available			
Propan-2-ol	EC <sub>50</sub>	> 100	<i>Daphnia magna Straus</i>	Method not given	48
alpha-hexylcinnamaldehyde		No data available			
benzyl salicylate		No data available			
butanone	EC <sub>50</sub>	5091	<i>Daphnia magna Straus</i>	Method not given	48
isobutane		No data available			
4-tert-butylcyclohexyl acetate		No data available			
pentyl salicylate		No data available			
[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one		No data available			
(Z)-3-hexenyl salicylate		No data available			
d-limonene	EC <sub>50</sub>	0.36	<i>Daphnia magna Straus</i>	OECD 202 (EU C.2)	48
4-methylpentan-2-one		No data available			
7-hydroxycitronellal		No data available			

## Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
ethanol	EC <sub>50</sub>	675	<i>Scenedesmus quadricauda</i> Not specified	Method not given	72
butane		No data available			
propane		No data available			
Propan-2-ol	EC <sub>50</sub>	> 100	<i>Scenedesmus quadricauda</i>	Method not given	72
alpha-hexylcinnamaldehyde		No data available			
benzyl salicylate		No data available			
butanone	IC <sub>50</sub>	4300	<i>Scenedesmus quadricauda</i>	Method not given	168
isobutane		No data available			
4-tert-butylcyclohexyl acetate		No data available			
pentyl salicylate		No data available			
[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one		No data available			
(Z)-3-hexenyl salicylate		No data available			
d-limonene	E <sub>r</sub> C <sub>50</sub>	150	<i>Desmodesmus subspicatus</i>	OECD 201 (EU C.3)	72
4-methylpentan-2-one		No data available			
7-hydroxycitronellal		No data available			



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## Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
ethanol		No data available			
butane		No data available			
propane		No data available			
Propan-2-ol		No data available			
alpha-hexylcinnamaldehyde		No data available			
benzyl salicylate		No data available			
butanone		No data available			
isobutane		No data available			
4-tert-butylcyclohexyl acetate		No data available			
pentyl salicylate		No data available			
[3R-(3 $\alpha$ ,3 $\alpha\beta$ ,7 $\beta$ ,8 $\alpha\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one		No data available			
(Z)-3-hexenyl salicylate		No data available			
d-limonene		No data available			
4-methylpentan-2-one		No data available			
7-hydroxycitronellal		No data available			

## Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
ethanol	EC <sub>0</sub>	6500	<i>Pseudomonas putida</i>	Method not given	16 hour(s)
butane		No data available			
propane		No data available			
Propan-2-ol	EC <sub>50</sub>	> 1000	<i>Activated sludge</i>	Method not given	
alpha-hexylcinnamaldehyde		No data available			
benzyl salicylate		No data available			
butanone	EC <sub>5</sub>	1150	<i>Pseudomonas putida</i>	Method not given	16 hour(s)
isobutane		No data available			
4-tert-butylcyclohexyl acetate		No data available			
pentyl salicylate		No data available			
[3R-(3 $\alpha$ ,3 $\alpha\beta$ ,7 $\beta$ ,8 $\alpha\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one		No data available			
(Z)-3-hexenyl salicylate		No data available			
d-limonene		No data available			
4-methylpentan-2-one		No data available			
7-hydroxycitronellal		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				
butane		No data available				
propane		No data available				

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Propan-2-ol		No data available				
alpha-hexylcinnamaldehyde		No data available				
benzyl salicylate		No data available				
butanone		No data available				
isobutane		No data available				
4-tert-butylcyclohexyl acetate		No data available				
pentyl salicylate		No data available				
[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one		No data available				
(Z)-3-hexenyl salicylate		No data available				
d-limonene		No data available				
4-methylpentan-2-one		No data available				
7-hydroxycitronellal		No data available				

## Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
ethanol		No data available				
butane		No data available				
propane		No data available				
Propan-2-ol		No data available				
alpha-hexylcinnamaldehyde		No data available				
benzyl salicylate		No data available				
butanone		No data available				
isobutane		No data available				
4-tert-butylcyclohexyl acetate		No data available				
pentyl salicylate		No data available				
[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one		No data available				
(Z)-3-hexenyl salicylate		No data available				
d-limonene		No data available				
4-methylpentan-2-one		No data available				
7-hydroxycitronellal		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				
butane		No data available				
propane		No data available				
Propan-2-ol		No data available				
alpha-hexylcinnamaldehyde		No data available				
benzyl salicylate		No data available				
butanone		No data available				
isobutane		No data available				
4-tert-butylcyclohexyl acetate		No data available				

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		available				
pentyl salicylate		No data available				
[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one		No data available				
(Z)-3-hexenyl salicylate		No data available				
d-limonene		No data available				
4-methylpentan-2-one		No data available				
7-hydroxycitronellal		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
Propan-2-ol		No data available				

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
Propan-2-ol		No data available				

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
Propan-2-ol		No data available				

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
Propan-2-ol		No data available				

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
Propan-2-ol		No data available				

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

Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Remark
Propan-2-ol	No data available			

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
Propan-2-ol	No data available			

Abiotic degradation - other processes, if available:

Ingredient(s)	Type	Half-life time	Method	Evaluation	Remark
Propan-2-ol		No data available			

**Biodegradation**

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT <sub>50</sub>	Method	Evaluation
ethanol	Activated sludge, aerobe	Oxygen depletion	> 60% in 10 day(s)	OECD 301B	Readily biodegradable
butane					Readily biodegradable
propane					Readily biodegradable

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Propan-2-ol			95 % in 21 day(s)	OECD 301E	Readily biodegradable
alpha-hexylcinnamaldehyde					Not readily biodegradable.
benzyl salicylate				OECD 301F	Readily biodegradable
butanone				OECD 301D	Readily biodegradable
isobutane					Readily biodegradable
4-tert-butylcyclohexyl acetate				OECD 301B	Readily biodegradable
pentyl salicylate					Not readily biodegradable.
[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one				OECD 301F	Not readily biodegradable.
(Z)-3-hexenyl salicylate					Not readily biodegradable.
d-limonene			80 % in 28 day(s)	OECD 301D	Readily biodegradable
4-methylpentan-2-one				OECD 301C	Readily biodegradable
7-hydroxycitronellal				OECD 301F	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT <sub>50</sub>	Method	Evaluation
Propan-2-ol					No data available

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT <sub>50</sub>	Method	Evaluation
Propan-2-ol					No data available

### 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
ethanol	-0.31	Weight of evidence	No bioaccumulation expected	
butane	No data available			
propane	No data available			
Propan-2-ol	0.05	OECD 107	No bioaccumulation expected	
alpha-hexylcinnamaldehyde	No data available			
benzyl salicylate	No data available			
butanone	No data available			
isobutane	No data available			
4-tert-butylcyclohexyl acetate	No data available			
pentyl salicylate	No data available			
[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available			
(Z)-3-hexenyl salicylate	No data available			
d-limonene	No data available		High potential for bioaccumulation	
4-methylpentan-2-one	No data available			
7-hydroxycitronellal	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
ethanol	0.5		Weight of evidence	No bioaccumulation expected	
butane	No data available				
propane	No data available				
Propan-2-ol	No data available				
alpha-hexylcinnamaldehyde	No data available				
benzyl salicylate	No data available				
butanone	No data available				
isobutane	No data available				
4-tert-butylcyclohexyl acetate	No data available				
pentyl salicylate	No data available				
[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available				
(Z)-3-hexenyl salicylate	No data available				
d-limonene	683.1		Method not given	High potential for bioaccumulation	
4-methylpentan-2-one	No data available				

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7-hydroxycitronellal	No data available				
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**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				
butane	No data available				
propane	No data available				
Propan-2-ol	No data available				Potential for mobility in soil, soluble in water
alpha-hexylcinnamaldehyde	No data available				
benzyl salicylate	No data available				
butanone	No data available				
isobutane	No data available				
4-tert-butylcyclohexyl acetate	No data available				
pentyl salicylate	No data available				
[3R-(3 $\alpha$ ,3 $\alpha$ $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)ethan-1-one	No data available				
(Z)-3-hexenyl salicylate	No data available				
d-limonene	No data available				High potential for mobility in soil
4-methylpentan-2-one	No data available				
7-hydroxycitronellal	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:**

16 05 04\* - gases in pressure containers (including halons) containing dangerous substances.

**Empty packaging****Recommendation:**

Dispose of observing national or local regulations.

**SECTION 14: Transport information****Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)****14.1 UN number or ID number:** 1950**14.2 UN proper shipping name:**

Aerosols

**14.3 Transport hazard class(es):****Transport hazard class (and subsidiary risks):** 2.1**14.4 Packing group:****14.5 Environmental hazards:****Environmentally hazardous:** No**Marine pollutant:** No**14.6 Special precautions for user:** None known.**14.7 Maritime transport in bulk according to IMO instruments:** The product is not transported in bulk tankers.

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

Classification code: 5F

Tunnel restriction code: (D)

**IMO/IMDG**

EmS: F-D, S-U

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code. According to special provision 190, aerosols with a capacity not exceeding 50ml containing only non-toxic constituents are not subject to the requirements of ADR or the provisions of the IMDG code.

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

- Regulation (EC) 1907/2006 - REACH (UK amended)
- Regulation (EC) 1272/2008 - CLP (UK amended)
- Delegated Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 (UK amended)
- 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.

**Comah - classification:** P3a - FLAMMABLE AEROSOLS

**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*

**SDS code:** MS1005387

**Version:** 01.0

**Revision:** 2023-03-10

**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.

**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
- H220 - Extremely flammable gas.
- H225 - Highly flammable liquid and vapour.
- H226 - Flammable liquid and vapour.
- H280 - Contains gas under pressure; may explode if heated.
- H302 - Harmful if swallowed.
- H304 - May be fatal if swallowed and enters airways.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H319 - Causes serious eye irritation.
- H332 - Harmful if inhaled.

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- H335 - May cause respiratory irritation.
- H336 - May cause drowsiness or dizziness.
- H351 - Suspected of causing cancer.
- 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.

**End of Safety Data Sheet**