



Good Sense Fresh Barrettes

Revision: 2018-01-25

Version: 01.0

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

1.1 Product identifier

Trade name: Good Sense Fresh Barrettes

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

Identified uses:

AISE-C18 - Air fresheners non-aerosol

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

1.3 Details of the supplier of the safety data sheet

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

Contact details

Diversey Ltd

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: customerservice.uk@diversey.com

1.4 Emergency telephone number

For medical or environmental emergency only:

call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Eye Dam. 1 (H318)

Skin Irrit. 2 (H315)

Skin Sens. 1 (H317)

Resp. Sens. 1 (H334)

Aquatic Chronic 2 (H411)

2.2 Label elements



Signal word: Danger.

Contains alpha-hexylcinnamaldehyde (Hexyl Cinnamal), benzyl salicylate (Benzyl Salicylate), geraniol (Geraniol), d-limonene (Limonene).

Hazard statements:

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 - May cause an allergic skin reaction.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements:

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

P102 - Keep out of reach of children.

P261 - Avoid breathing vapours.

P280 - Wear eye or face protection.

P284 - Wear respiratory protection.

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTRE, doctor or physician.

P501 - Dispose of unused content as chemical waste.

2.3 Other hazards

No other hazards known

SECTION 3: Composition/information on ingredients**3.2 Mixtures**

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
alpha-hexylcinnamaldehyde	202-983-3	101-86-0	01-2119533092-50	Skin Sens. 1B (H317) Aquatic Chronic 2 (H411)		10-20
benzyl salicylate	204-262-9	118-58-1	No data available	Skin Sens. 1B (H317) Aquatic Chronic 2 (H411)		3-10
aluminium hydroxide	244-492-7	21645-51-2	No data available	Not classified as hazardous		3-10
linalyl acetate	204-116-4	115-95-7	01-2119454789-19	Skin Irrit. 2 (H315)		3-10
geraniol	203-377-1	106-24-1	01-2119552430-49-	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317)		1-3
d-limonene	227-813-5	5989-27-5	01-2119529223-47	Flam. Liq. 3 (H226) Acute Tox. 5 (H303) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		1-3
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	405-040-6	63500-71-0	01-0000015458-64	Eye Irrit. 2 (H319)		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
decanal	203-919-7	112-31-2	01-2119967771-26	Skin Irrit. 2 (H315) Aquatic Chronic 3 (H412)		1-3
pentyl salicylate	218-080-2	2050-08-0	01-2119969444-27	Aquatic Chronic 2 (H411)		1-3
[3R-(3α,3aβ,7β,8αα)]-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	No data available	Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		1-3
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate	259-367-2	54830-99-8	01-2119488219-26	Aquatic Chronic 3 (H412)		1-3
(Z)-3-hexenyl salicylate	265-745-8	65405-77-8	No data available	Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		1-3
ionone, methyl-	215-635-0	1335-46-2	01-2119471851-35	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)		1-3
4-tert-butylcyclohexyl acetate	250-954-9	32210-23-4	01-2119976286-24	Aquatic Chronic 2 (H411)		1-3
ethylenediamine	203-468-6	107-15-3	No data available	Flam. Liq. 3 (H226) Skin Corr. 1B (H314) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Sens. 1 (H317) Resp. Sens. 1 (H334)		1-3
eugenol	202-589-1	97-53-0	No data available	Eye Irrit. 2 (H319) Skin Sens. 1B (H317)		1-3
7-hydroxycitronellal	203-518-7	107-75-5	01-2119973482-31	Eye Irrit. 2 (H319) Skin Sens. 1B (H317)		1-3
linalool	201-134-4	78-70-6	01-2119474016-42	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)		1-3
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	248-908-8	28219-61-6	No data available	Skin Irrit. 2 (H315) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		0.1-1
(-)-pin-2(3)-ene	232-077-3	7785-26-4	No data available	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		0.1-1

* Polymer.

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

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

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[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.

[3] Exempted: Annex V of Regulation (EC) No 1907/2006.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

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. If breathing is irregular or stopped, administer artificial respiration. Provide fresh air. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

Inhalation:

Remove person to fresh air and keep comfortable for breathing.

Skin contact:

Wash skin with plenty of lukewarm, gently flowing water. Take off immediately all contaminated clothing and wash it before re-use. If skin irritation or rash occurs: Get medical advice or attention.

Eye contact:

Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician.

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:

May cause allergy or asthma symptoms or breathing difficulties.

Skin contact:

Causes irritation. May cause an allergic skin reaction.

Eye contact:

Causes severe or permanent damage.

Ingestion:

No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

No special hazards known.

5.3 Advice for firefighters

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Do not breathe dust or vapour. Wear eye/face protection.

6.2 Environmental precautions

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

Collect mechanically. Ensure adequate ventilation.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Measures to prevent fire and explosions:

No special precautions required.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Do not mix with other products unless advised by Diversey. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with eyes. Do not breathe vapours. Use only with adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

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

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

7.3 Specific end use(s)

No specific advice for end use available.

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

Air limit values, if available:

Ingredient(s)	UK - Long term value(s)	UK - Short term value(s)
aluminium hydroxide	10 mg/m ³ inhalable dust 4 mg/m ³ respirable dust	30 mg/m ³ inhalable dust 12 mg/m ³ respirable dust

Biological limit values, if available:

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

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

DNEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
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
aluminium hydroxide	No data available	No data available	No data available	No data available
linalyl acetate	No data available	No data available	No data available	No data available
geraniol	No data available	No data available	No data available	No data available
d-limonene	-	-	-	4.76
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	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
decanal	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
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate	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
ionone, methyl-	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
ethylenediamine	No data available	No data available	No data available	No data available
eugenol	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
linalool	No data available	No data available	No data available	No data available
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available	No data available	No data available	No data available
(-)-pin-2(3)-ene	No data available	No data available	No data available	No data available

DNEL dermal exposure - Worker

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
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
aluminium hydroxide	No data available	No data available	No data available	No data available
linalyl acetate	No data available	No data available	No data available	No data available
geraniol	No data available	No data available	No data available	No data available
d-limonene	0.222 mg/cm ² skin	-	No data available	-
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	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
decanal	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
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate	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

ionone, methyl-	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
ethylenediamine	No data available	No data available	No data available	No data available
eugenol	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
linalool	No data available	No data available	No data available	No data available
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available	No data available	No data available	No data available
(-)-pin-2(3)-ene	No data available	No data available	No data available	No data available

DNEL dermal exposure - Consumer

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
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
aluminium hydroxide	No data available	No data available	No data available	No data available
linalyl acetate	No data available	No data available	No data available	No data available
geraniol	No data available	No data available	No data available	No data available
d-limonene	0.111 mg/cm ² skin	-	No data available	-
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	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
decanal	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
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate	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
ionone, methyl-	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
ethylenediamine	No data available	No data available	No data available	No data available
eugenol	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
linalool	No data available	No data available	No data available	No data available
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available	No data available	No data available	No data available
(-)-pin-2(3)-ene	No data available	No data available	No data available	No data available

DNEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
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
aluminium hydroxide	No data available	No data available	No data available	No data available
linalyl acetate	No data available	No data available	No data available	No data available
geraniol	No data available	No data available	No data available	No data available
d-limonene	-	-	-	33.3
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	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
decanal	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
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate	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
ionone, methyl-	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
ethylenediamine	No data available	No data available	No data available	No data available
eugenol	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
linalool	No data available	No data available	No data available	No data available
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available	No data available	No data available	No data available
(-)-pin-2(3)-ene	No data available	No data available	No data available	No data available

DNEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
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
aluminium hydroxide	No data available	No data available	No data available	No data available
linalyl acetate	No data available	No data available	No data available	No data available
geraniol	No data available	No data available	No data available	No data available

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d-limonene	-	-	-	8.33
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	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
decanal	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 α ,3 α ,7 β ,8 α)]-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
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate	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
ionone, methyl-	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
ethylenediamine	No data available	No data available	No data available	No data available
eugenol	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
linalool	No data available	No data available	No data available	No data available
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available	No data available	No data available	No data available
(-)-pin-2(3)-ene	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)
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
aluminium hydroxide	No data available	No data available	No data available	No data available
linalyl acetate	No data available	No data available	No data available	No data available
geraniol	No data available	No data available	No data available	No data available
d-limonene	0.0054	0.00054	-	1.8
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	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
decanal	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 α ,3 α ,7 β ,8 α)]-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
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate	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
ionone, methyl-	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
ethylenediamine	No data available	No data available	No data available	No data available
eugenol	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
linalool	No data available	No data available	No data available	No data available
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available	No data available	No data available	No data available
(-)-pin-2(3)-ene	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)
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
aluminium hydroxide	No data available	No data available	No data available	No data available
linalyl acetate	No data available	No data available	No data available	No data available
geraniol	No data available	No data available	No data available	No data available
d-limonene	1.32	0.13	0.262	-
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	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
decanal	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 α ,3 α ,7 β ,8 α)]-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
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate	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
ionone, methyl-	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
ethylenediamine	No data available	No data available	No data available	No data available
eugenol	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
linalool	No data available	No data available	No data available	No data available
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available	No data available	No data available	No data available

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(-)-pin-2(3)-ene	No data available	No data available	No data available	No data available
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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: No special requirements under normal use conditions.
Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment

Eye / face protection: Safety glasses or goggles (EN 166).
Hand protection: Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.
Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: >= 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: Should not reach sewage water or drainage ditch undiluted or unneutralised.

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: Solid	
Colour: Opaque, To Match Standard(TMS)	
Odour: Perfumed	
Odour threshold: Not applicable	
pH:	
Melting point/freezing point (°C): Not determined	Not relevant to classification of this product
Initial boiling point and boiling range (°C): Not determined	Not applicable to solids or gases

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
alpha-hexylcinnamaldehyde	No data available		
benzyl salicylate	No data available		
aluminium hydroxide	No data available		
linalyl acetate	No data available		
geraniol	No data available		
d-limonene	175-178	Method not given	1013
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	No data available		
2,6-dimethyloct-7-en-2-ol	No data available		
decanal	No data available		
pentyl salicylate	No data available		
[3R-(3α,3αβ,7β,8αα)]-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		
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate	No data available		
(Z)-3-hexenyl salicylate	No data available		
ionone, methyl-	No data available		
4-tert-butylcyclohexyl acetate	No data available		
ethylenediamine	No data available		
eugenol	No data available		
7-hydroxycitronellal	No data available		
linalool	No data available		
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available		
(-)-pin-2(3)-ene	No data available		

Method / remark

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Flash point (°C): Not applicable.**Sustained combustion:** Not applicable.

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

Evaporation rate: Not determined

Not relevant to classification of this product

Flammability (solid, gas): Not determined**Upper/lower flammability limit (%):** Not determined

See substance data

Substance data, flammability or explosive limits, if available:

Ingredient(s)	Lower limit (% vol)	Upper limit (% vol)
d-limonene	0.7	6.1

Method / remark

See substance data

Vapour pressure: Not determined

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
alpha-hexylcinnamaldehyde	No data available		
benzyl salicylate	No data available		
aluminium hydroxide	No data available		
linalyl acetate	No data available		
geraniol	No data available		
d-limonene	190-230	Method not given	20
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	No data available		
2,6-dimethyloct-7-en-2-ol	No data available		
decanal	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		
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate	No data available		
(Z)-3-hexenyl salicylate	No data available		
ionone, methyl-	No data available		
4-tert-butylcyclohexyl acetate	No data available		
ethylenediamine	No data available		
eugenol	No data available		
7-hydroxycitronellal	No data available		
linalool	No data available		
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available		
(-)-pin-2(3)-ene	No data available		

Method / remark

Not relevant to classification of this product

OECD 109 (EU A.3)

Vapour density: Not determined**Relative density:** ≈ 1 (20 °C)**Solubility in / Miscibility with Water:** Insoluble

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
alpha-hexylcinnamaldehyde	No data available		
benzyl salicylate	No data available		
aluminium hydroxide	No data available		
linalyl acetate	No data available		
geraniol	No data available		
d-limonene	Insoluble	Method not given	20
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	No data available		
2,6-dimethyloct-7-en-2-ol	No data available		
decanal	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		
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate	No data available		
(Z)-3-hexenyl salicylate	No data available		
ionone, methyl-	No data available		
4-tert-butylcyclohexyl acetate	No data available		
ethylenediamine	No data available		
eugenol	No data available		
7-hydroxycitronellal	No data available		
linalool	No data available		

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2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available		
(-)-pin-2(3)-ene	No data available		

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

Autoignition temperature: Not determined
Decomposition temperature: Not applicable.
Viscosity: Not determined
Explosive properties: Not explosive.
Oxidising properties: Not oxidising.

Method / remark

Not applicable to solids or gases

9.2 Other information

Surface tension (N/m): Not determined
Corrosion to metals: Not corrosive

Not relevant to classification of this product

Substance data, dissociation constant, if available:

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

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid

None known under normal storage and use conditions.

10.5 Incompatible materials

None known under normal use conditions.

10.6 Hazardous decomposition products

None known under normal storage and use conditions.

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Mixture data:.

Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000

ATE - Dermal (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)
alpha-hexylcinnamaldehyde		No data available			
benzyl salicylate		No data available			
aluminium hydroxide		No data available			
linalyl acetate		No data available			
geraniol		No data available			
d-limonene	LD ₅₀	4400 - 5100	Rat	Method not given	
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)		No data available			
2,6-dimethyloct-7-en-2-ol		No data available			
decanal		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-m		No data			

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ethanoazulen-5-yl)ethan-1-one		available			
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate		No data available			
(Z)-3-hexenyl salicylate		No data available			
ionone, methyl-		No data available			
4-tert-butylcyclohexyl acetate		No data available			
ethylenediamine		No data available			
eugenol		No data available			
7-hydroxycitronellal		No data available			
linalool		No data available			
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available			
(-)-pin-2(3)-ene		No data available			

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
alpha-hexylcinnamaldehyde		No data available			
benzyl salicylate		No data available			
aluminium hydroxide		No data available			
linalyl acetate		No data available			
geraniol		No data available			
d-limonene	LD ₅₀	> 5000	Rabbit	Method not given	
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)		No data available			
2,6-dimethyloct-7-en-2-ol		No data available			
decanal		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			
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate		No data available			
(Z)-3-hexenyl salicylate		No data available			
ionone, methyl-		No data available			
4-tert-butylcyclohexyl acetate		No data available			
ethylenediamine		No data available			
eugenol		No data available			
7-hydroxycitronellal		No data available			
linalool		No data available			
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available			
(-)-pin-2(3)-ene		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alpha-hexylcinnamaldehyde		No data available			
benzyl salicylate		No data available			
aluminium hydroxide		No data available			
linalyl acetate		No data available			
geraniol		No data available			
d-limonene		No data available			

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tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)		No data available			
2,6-dimethyloct-7-en-2-ol		No data available			
decanal		No data available			
pentyl salicylate		No data available			
[3R-(3 α ,3 β ,7 β ,8 α)]-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			
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate		No data available			
(Z)-3-hexenyl salicylate		No data available			
ionone, methyl-		No data available			
4-tert-butylcyclohexyl acetate		No data available			
ethylenediamine		No data available			
eugenol		No data available			
7-hydroxycitronellal		No data available			
linalool		No data available			
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available			
(-)-pin-2(3)-ene		No data available			

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alpha-hexylcinnamaldehyde	No data available			
benzyl salicylate	No data available			
aluminium hydroxide	No data available			
linalyl acetate	No data available			
geraniol	No data available			
d-limonene	Irritant	Rabbit	Method not given	
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	No data available			
2,6-dimethyloct-7-en-2-ol	No data available			
decanal	No data available			
pentyl salicylate	No data available			
[3R-(3 α ,3 β ,7 β ,8 α)]-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			
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate	No data available			
(Z)-3-hexenyl salicylate	No data available			
ionone, methyl-	No data available			
4-tert-butylcyclohexyl acetate	No data available			
ethylenediamine	No data available			
eugenol	No data available			
7-hydroxycitronellal	No data available			
linalool	No data available			
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available			
(-)-pin-2(3)-ene	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alpha-hexylcinnamaldehyde	No data available			
benzyl salicylate	No data available			
aluminium hydroxide	No data available			
linalyl acetate	No data available			
geraniol	No data available			
d-limonene	No data available			
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	No data available			
2,6-dimethyloct-7-en-2-ol	No data available			
decanal	No data available			
pentyl salicylate	No data available			
[3R-(3 α ,3 β ,7 β ,8 α)]-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			
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate	No data available			

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(Z)-3-hexenyl salicylate	No data available			
ionone, methyl-	No data available			
4-tert-butylcyclohexyl acetate	No data available			
ethylenediamine	No data available			
eugenol	No data available			
7-hydroxycitronellal	No data available			
linalool	No data available			
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available			
(-)-pin-2(3)-ene	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
alpha-hexylcinnamaldehyde	No data available			
benzyl salicylate	No data available			
aluminium hydroxide	No data available			
linalyl acetate	No data available			
geraniol	No data available			
d-limonene	No data available			
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	No data available			
2,6-dimethyloct-7-en-2-ol	No data available			
decanal	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			
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate	No data available			
(Z)-3-hexenyl salicylate	No data available			
ionone, methyl-	No data available			
4-tert-butylcyclohexyl acetate	No data available			
ethylenediamine	No data available			
eugenol	No data available			
7-hydroxycitronellal	No data available			
linalool	No data available			
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available			
(-)-pin-2(3)-ene	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
alpha-hexylcinnamaldehyde	No data available			
benzyl salicylate	No data available			
aluminium hydroxide	No data available			
linalyl acetate	No data available			
geraniol	No data available			
d-limonene	Sensitising	Guinea pig	Method not given	
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	No data available			
2,6-dimethyloct-7-en-2-ol	No data available			
decanal	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			
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate	No data available			
(Z)-3-hexenyl salicylate	No data available			
ionone, methyl-	No data available			
4-tert-butylcyclohexyl acetate	No data available			
ethylenediamine	No data available			
eugenol	No data available			
7-hydroxycitronellal	No data available			
linalool	No data available			
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available			
(-)-pin-2(3)-ene	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
alpha-hexylcinnamaldehyde	No data available			
benzyl salicylate	No data available			
aluminium hydroxide	No data available			
linalyl acetate	No data available			

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geraniol	No data available			
d-limonene	No data available			
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	No data available			
2,6-dimethyloct-7-en-2-ol	No data available			
decanal	No data available			
pentyl salicylate	No data available			
[3R-(3 α ,3 β ,7 β ,8 α)]-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			
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate	No data available			
(Z)-3-hexenyl salicylate	No data available			
ionone, methyl-	No data available			
4-tert-butylcyclohexyl acetate	No data available			
ethylenediamine	No data available			
eugenol	No data available			
7-hydroxycitronellal	No data available			
linalool	No data available			
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available			
(-)-pin-2(3)-ene	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)
alpha-hexylcinnamaldehyde	No data available		No data available	
benzyl salicylate	No data available		No data available	
aluminium hydroxide	No data available		No data available	
linalyl acetate	No data available		No data available	
geraniol	No data available		No data available	
d-limonene	No data available		No data available	
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	No data available		No data available	
2,6-dimethyloct-7-en-2-ol	No data available		No data available	
decanal	No data available		No data available	
pentyl salicylate	No data available		No data available	
[3R-(3 α ,3 β ,7 β ,8 α)]-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	
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate	No data available		No data available	
(Z)-3-hexenyl salicylate	No data available		No data available	
ionone, methyl-	No data available		No data available	
4-tert-butylcyclohexyl acetate	No data available		No data available	
ethylenediamine	No data available		No data available	
eugenol	No data available		No data available	
7-hydroxycitronellal	No data available		No data available	
linalool	No data available		No data available	
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available		No data available	
(-)-pin-2(3)-ene	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
alpha-hexylcinnamaldehyde	No data available
benzyl salicylate	No data available
aluminium hydroxide	No data available
linalyl acetate	No data available
geraniol	No data available
d-limonene	No data available
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	No data available
2,6-dimethyloct-7-en-2-ol	No data available
decanal	No data available
pentyl salicylate	No data available
[3R-(3 α ,3 β ,7 β ,8 α)]-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
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate	No data available
(Z)-3-hexenyl salicylate	No data available
ionone, methyl-	No data available
4-tert-butylcyclohexyl acetate	No data available
ethylenediamine	No data available
eugenol	No data available

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7-hydroxycitronellal	No data available
linalool	No data available
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available
(-)-pin-2(3)-ene	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
alpha-hexylcinnamaldehyde			No data available				
benzyl salicylate			No data available				
aluminium hydroxide			No data available				
linalyl acetate			No data available				
geraniol			No data available				
d-limonene			No data available				
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)			No data available				
2,6-dimethyloct-7-en-2-ol			No data available				
decanal			No data available				
pentyl salicylate			No data available				
[3R-(3 α ,3 β ,7 β ,8 α)]-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				
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate			No data available				
(Z)-3-hexenyl salicylate			No data available				
ionone, methyl-			No data available				
4-tert-butylcyclohexyl acetate			No data available				
ethylenediamine			No data available				
eugenol			No data available				
7-hydroxycitronellal			No data available				
linalool			No data available				
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol			No data available				
(-)-pin-2(3)-ene			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
alpha-hexylcinnamaldehyde		No data available				
benzyl salicylate		No data available				
aluminium hydroxide		No data available				
linalyl acetate		No data available				
geraniol		No data available				
d-limonene		No data available				
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)		No data available				
2,6-dimethyloct-7-en-2-ol		No data available				
decanal		No data available				
pentyl salicylate		No data available				

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[3R-(3 α ,3 β ,7 β ,8 α)]-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				
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate		No data available				
(Z)-3-hexenyl salicylate		No data available				
ionone, methyl-		No data available				
4-tert-butylcyclohexyl acetate		No data available				
ethylenediamine		No data available				
eugenol		No data available				
7-hydroxycitronellal		No data available				
linalool		No data available				
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available				
(-)-pin-2(3)-ene		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
alpha-hexylcinnamaldehyde		No data available				
benzyl salicylate		No data available				
aluminium hydroxide		No data available				
linalyl acetate		No data available				
geraniol		No data available				
d-limonene		No data available				
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)		No data available				
2,6-dimethyloct-7-en-2-ol		No data available				
decanal		No data available				
pentyl salicylate		No data available				
[3R-(3 α ,3 β ,7 β ,8 α)]-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				
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate		No data available				
(Z)-3-hexenyl salicylate		No data available				
ionone, methyl-		No data available				
4-tert-butylcyclohexyl acetate		No data available				
ethylenediamine		No data available				
eugenol		No data available				
7-hydroxycitronellal		No data available				
linalool		No data available				
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available				
(-)-pin-2(3)-ene		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
alpha-hexylcinnamaldehyde		No data available				
benzyl salicylate		No data available				
aluminium hydroxide		No data available				
linalyl acetate		No data available				
geraniol		No data available				

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d-limonene		No data available				
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)		No data available				
2,6-dimethyloct-7-en-2-ol		No data available				
decanal		No data available				
pentyl salicylate		No data available				
[3R-(3 α ,3 β ,7 β ,8 α)]-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				
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate		No data available				
(Z)-3-hexenyl salicylate		No data available				
ionone, methyl-		No data available				
4-tert-butylcyclohexyl acetate		No data available				
ethylenediamine		No data available				
eugenol		No data available				
7-hydroxycitronellal		No data available				
linalool		No data available				
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available				
(-)-pin-2(3)-ene		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
alpha-hexylcinnamaldehyde			No data available					
benzyl salicylate			No data available					
aluminium hydroxide			No data available					
linalyl acetate			No data available					
geraniol			No data available					
d-limonene			No data available					
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)			No data available					
2,6-dimethyloct-7-en-2-ol			No data available					
decanal			No data available					
pentyl salicylate			No data available					
[3R-(3 α ,3 β ,7 β ,8 α)]-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					
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate			No data available					
(Z)-3-hexenyl salicylate			No data available					
ionone, methyl-			No data available					
4-tert-butylcyclohexyl acetate			No data available					
ethylenediamine			No data available					
eugenol			No data available					
7-hydroxycitronellal			No data available					
linalool			No data available					
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol			No data available					

(-)-pin-2(3)-ene			No data available					
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STOT-single exposure

Ingredient(s)	Affected organ(s)
alpha-hexylcinnamaldehyde	No data available
benzyl salicylate	No data available
aluminium hydroxide	No data available
linalyl acetate	No data available
geraniol	No data available
d-limonene	No data available
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	No data available
2,6-dimethyloct-7-en-2-ol	No data available
decanal	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
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate	No data available
(Z)-3-hexenyl salicylate	No data available
ionone, methyl-	No data available
4-tert-butylcyclohexyl acetate	No data available
ethylenediamine	No data available
eugenol	No data available
7-hydroxycitronellal	No data available
linalool	No data available
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available
(-)-pin-2(3)-ene	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
alpha-hexylcinnamaldehyde	No data available
benzyl salicylate	No data available
aluminium hydroxide	No data available
linalyl acetate	No data available
geraniol	No data available
d-limonene	No data available
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	No data available
2,6-dimethyloct-7-en-2-ol	No data available
decanal	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
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate	No data available
(Z)-3-hexenyl salicylate	No data available
ionone, methyl-	No data available
4-tert-butylcyclohexyl acetate	No data available
ethylenediamine	No data available
eugenol	No data available
7-hydroxycitronellal	No data available
linalool	No data available
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available
(-)-pin-2(3)-ene	No data available

Aspiration hazard

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

Potential adverse health effects and symptoms

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

SECTION 12: Ecological information

12.1 Toxicity

No data is available on the mixture.

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

Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
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alpha-hexylcinnamaldehyde		No data available			
benzyl salicylate		No data available			
aluminium hydroxide		No data available			
linalyl acetate		No data available			
geraniol		No data available			
d-limonene	LC ₅₀	0.72	<i>Pimephales promelas</i>	OECD 203 (EU C.1)	96
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)		No data available			
2,6-dimethyloct-7-en-2-ol		No data available			
decanal		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			
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate		No data available			
(Z)-3-hexenyl salicylate		No data available			
ionone, methyl-		No data available			
4-tert-butylcyclohexyl acetate		No data available			
ethylenediamine		No data available			
eugenol		No data available			
7-hydroxycitronellal		No data available			
linalool		No data available			
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available			
(-)-pin-2(3)-ene		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alpha-hexylcinnamaldehyde		No data available			
benzyl salicylate		No data available			
aluminium hydroxide		No data available			
linalyl acetate		No data available			
geraniol		No data available			
d-limonene	EC ₅₀	0.36	<i>Daphnia magna</i> Straus	OECD 202 (EU C.2)	48
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)		No data available			
2,6-dimethyloct-7-en-2-ol		No data available			
decanal		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			
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate		No data available			
(Z)-3-hexenyl salicylate		No data available			
ionone, methyl-		No data available			
4-tert-butylcyclohexyl acetate		No data available			
ethylenediamine		No data available			
eugenol		No data available			
7-hydroxycitronellal		No data available			
linalool		No data			

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		available			
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available			
(-)-pin-2(3)-ene		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
alpha-hexylcinnamaldehyde		No data available			
benzyl salicylate		No data available			
aluminium hydroxide		No data available			
linalyl acetate		No data available			
geraniol		No data available			
d-limonene	E _r C ₅₀	150	<i>Desmodesmus subspicatus</i>	OECD 201 (EU C.3)	72
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)		No data available			
2,6-dimethyloct-7-en-2-ol		No data available			
decanal		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			
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate		No data available			
(Z)-3-hexenyl salicylate		No data available			
ionone, methyl-		No data available			
4-tert-butylcyclohexyl acetate		No data available			
ethylenediamine		No data available			
eugenol		No data available			
7-hydroxycitronellal		No data available			
linalool		No data available			
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available			
(-)-pin-2(3)-ene		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
alpha-hexylcinnamaldehyde		No data available			
benzyl salicylate		No data available			
aluminium hydroxide		No data available			
linalyl acetate		No data available			
geraniol		No data available			
d-limonene		No data available			-
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)		No data available			
2,6-dimethyloct-7-en-2-ol		No data available			
decanal		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			
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate		No data available			
(Z)-3-hexenyl salicylate		No data available			
ionone, methyl-		No data available			

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		available			
4-tert-butylcyclohexyl acetate		No data available			
ethylenediamine		No data available			
eugenol		No data available			
7-hydroxycitronellal		No data available			
linalool		No data available			
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available			
(-)-pin-2(3)-ene		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
alpha-hexylcinnamaldehyde		No data available			
benzyl salicylate		No data available			
aluminium hydroxide		No data available			
linalyl acetate		No data available			
geraniol		No data available			
d-limonene		No data available			
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)		No data available			
2,6-dimethyloct-7-en-2-ol		No data available			
decanal		No data available			
pentyl salicylate		No data available			
[3R-(3α,3aβ,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			
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate		No data available			
(Z)-3-hexenyl salicylate		No data available			
ionone, methyl-		No data available			
4-tert-butylcyclohexyl acetate		No data available			
ethylenediamine		No data available			
eugenol		No data available			
7-hydroxycitronellal		No data available			
linalool		No data available			
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available			
(-)-pin-2(3)-ene		No data available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
alpha-hexylcinnamaldehyde		No data available				
benzyl salicylate		No data available				
aluminium hydroxide		No data available				
linalyl acetate		No data available				
geraniol		No data available				
d-limonene		No data available				
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)		No data available				
2,6-dimethyloct-7-en-2-ol		No data available				

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decanal		No data available				
pentyl salicylate		No data available				
[3R-(3 α ,3 β ,7 β ,8 α)]-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				
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate		No data available				
(Z)-3-hexenyl salicylate		No data available				
ionone, methyl-		No data available				
4-tert-butylcyclohexyl acetate		No data available				
ethylenediamine		No data available				
eugenol		No data available				
7-hydroxycitronellal		No data available				
linalool		No data available				
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available				
(-)-pin-2(3)-ene		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
alpha-hexylcinnamaldehyde		No data available				
benzyl salicylate		No data available				
aluminium hydroxide		No data available				
linalyl acetate		No data available				
geraniol		No data available				
d-limonene		No data available				
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)		No data available				
2,6-dimethyloct-7-en-2-ol		No data available				
decanal		No data available				
pentyl salicylate		No data available				
[3R-(3 α ,3 β ,7 β ,8 α)]-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				
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate		No data available				
(Z)-3-hexenyl salicylate		No data available				
ionone, methyl-		No data available				
4-tert-butylcyclohexyl acetate		No data available				
ethylenediamine		No data available				
eugenol		No data available				
7-hydroxycitronellal		No data available				
linalool		No data available				
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available				
(-)-pin-2(3)-ene		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
alpha-hexylcinnamaldehyde		No data available				
benzyl salicylate		No data available				
aluminium hydroxide		No data available				

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		available				
linalyl acetate		No data available				
geraniol		No data available				
d-limonene		No data available			-	
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)		No data available				
2,6-dimethyloct-7-en-2-ol		No data available				
decanal		No data available				
pentyl salicylate		No data available				
[3R-(3 α ,3 β ,7 β ,8 α)]-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				
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate		No data available				
(Z)-3-hexenyl salicylate		No data available				
ionone, methyl-		No data available				
4-tert-butylcyclohexyl acetate		No data available				
ethylenediamine		No data available				
eugenol		No data available				
7-hydroxycitronellal		No data available				
linalool		No data available				
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		No data available				
(-)-pin-2(3)-ene		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
d-limonene		No data available			-	

Terrestrial toxicity - plants, if available:

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

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
d-limonene		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

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

Terrestrial toxicity - soil bacteria, if available:

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

12.2 Persistence and degradability**Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT ₅₀	Method	Evaluation
alpha-hexylcinnamaldehyde					Not readily biodegradable.
benzyl salicylate				OECD 301F	Readily biodegradable
aluminium hydroxide					No data available
linalyl acetate				OECD 301F	Readily biodegradable
geraniol				OECD 301F	Readily biodegradable
d-limonene			80 % in 28 day(s)	OECD 301D	Readily biodegradable
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	Activated sludge, aerobe	CO ₂ production		OECD 301B	Not readily biodegradable.
2,6-dimethyloct-7-en-2-ol				OECD 301B	Readily biodegradable
decanal				OECD 301F	Readily biodegradable
pentyl salicylate					Not readily biodegradable.
[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				OECD 301F	Not readily biodegradable.
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate					No data available
(Z)-3-hexenyl salicylate					No data available
ionone, methyl-				OECD 301F	Readily biodegradable
4-tert-butylcyclohexyl acetate				OECD 301B	Readily biodegradable
ethylenediamine					No data available
eugenol					Readily biodegradable
7-hydroxycitronellal				OECD 301F	Readily biodegradable
linalool				OECD 301D	Readily biodegradable
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol					Not readily biodegradable.
(-)-pin-2(3)-ene					No data available

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

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

Ingredient(s)	Value	Method	Evaluation	Remark
alpha-hexylcinnamaldehyde	No data available			
benzyl salicylate	No data available			
aluminium hydroxide	No data available			
linalyl acetate	No data available			
geraniol	No data available			
d-limonene	No data available		High potential for bioaccumulation	
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	No data available			
2,6-dimethyloct-7-en-2-ol	No data available			
decanal	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			
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate	No data available			
(Z)-3-hexenyl salicylate	No data available			
ionone, methyl-	No data available			
4-tert-butylcyclohexyl acetate	No data available			
ethylenediamine	No data available			
eugenol	No data available			
7-hydroxycitronellal	No data available			
linalool	No data available			
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available			
(-)-pin-2(3)-ene	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
alpha-hexylcinnamaldehyde	No data available				
benzyl salicylate	No data available				
aluminium hydroxide	No data available				
linalyl acetate	No data available				

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geraniol	No data available				
d-limonene	683.1		Method not given	High potential for bioaccumulation	
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	No data available				
2,6-dimethyloct-7-en-2-ol	No data available				
decanal	No data available				
pentyl salicylate	No data available				
[3R-(3 α ,3 β ,7 β ,8 α)]-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				
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate	No data available				
(Z)-3-hexenyl salicylate	No data available				
ionone, methyl-	No data available				
4-tert-butylcyclohexyl acetate	No data available				
ethylenediamine	No data available				
eugenol	No data available				
7-hydroxycitronellal	No data available				
linalool	No data available				
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available				
(-)-pin-2(3)-ene	No data available				

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log K _{oc}	Desorption coefficient Log K _{oc} (des)	Method	Soil/sediment type	Evaluation
alpha-hexylcinnamaldehyde	No data available				
benzyl salicylate	No data available				
aluminium hydroxide	No data available				
linalyl acetate	No data available				
geraniol	No data available				
d-limonene	No data available				High potential for mobility in soil
tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)	No data available				
2,6-dimethyloct-7-en-2-ol	No data available				
decanal	No data available				
pentyl salicylate	No data available				
[3R-(3 α ,3 β ,7 β ,8 α)]-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				
3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate	No data available				
(Z)-3-hexenyl salicylate	No data available				
ionone, methyl-	No data available				
4-tert-butylcyclohexyl acetate	No data available				
ethylenediamine	No data available				
eugenol	No data available				
7-hydroxycitronellal	No data available				
linalool	No data available				
2-ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	No data available				
(-)-pin-2(3)-ene	No data available				

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations

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13.1 Waste treatment methods**Waste from residues / unused products:**

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.
20 01 29* - detergents containing dangerous substances.

European Waste Catalogue:**Empty packaging****Recommendation:**

Dispose of observing national or local regulations.

SECTION 14: Transport information**Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)**

14.1 UN number: 3077

14.2 UN proper shipping name:

Environmentally hazardous substance, solid, n.o.s. (dipentene)

14.3 Transport hazard class(es):

Class: 9

Label(s): 9

14.4 Packing group: III**14.5 Environmental hazards:**

Environmentally hazardous: Yes

Marine pollutant: Yes

14.6 Special precautions for user: None known.**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** The product is not transported in bulk tankers.**Other relevant information:****ADR**

Classification code: M7

Tunnel restriction code: E

Hazard identification number: 90

IMO/IMDG

EmS: F-A, S-F

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code. Transport regulations include special provisions for dangerous goods packed in small quantities classified under UN3077 or UN3082.

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

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

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

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: MS1003625

Version: 01.0

Revision: 2018-01-25

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:

- H226 - Flammable liquid and vapour.
- H302 - Harmful if swallowed.
- H303 - May be harmful if swallowed.
- H304 - May be fatal if swallowed and enters airways.
- H312 - Harmful in contact with skin.

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- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- H411 - Toxic to aquatic life with long lasting effects.
- H412 - Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms:

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

End of Safety Data Sheet