



A Solenis Company

## TASKI Tapi Deo C9a

Revision: 2024-01-29

Version: 01.0

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

#### 1.1 Product identifier

**Trade name:** TASKI Tapi Deo C9a

UFI: VF8K-F1CN-R00C-7URK

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

**Product use:**

Odor Control - Residual action (fabric).

For professional use only.

**Uses advised against:**

Uses other than those identified are not recommended.

**SWED - Sector-specific worker exposure description :**

AISE\_SWED\_PW\_4\_2

#### 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

Eye irritation, Category 2 (H319)

Skin irritation, Category 2 (H315)

Skin sensitisation, Category 1 (H317)

Chronic aquatic toxicity, Category 2 (H411)

#### 2.2 Label elements



**Signal word:** Warning.

Contains geranyl acetate (Geranyl Acetate), linalool (Linalool), Isocyclocitral (Isocyclocitral), cineole (Eucalyptol), p-mentha-1,4(8)-diene (Terpinolene), d-limonene (Limonene)

#### Hazard statements:

H315 + H319 - Causes skin and serious eye irritation.

H317 - May cause an allergic skin reaction.

H411 - Toxic to aquatic life with long lasting effects.

#### Precautionary statements:

P280 - Wear protective gloves.

#### 2.3 Other hazards

No other hazards known.

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

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
linalyl acetate	204-116-4	115-95-7	01-211945478 9-19	Skin irritation, Category 2 (H315) Eye irritation, Category 2 (H319)		3-10
geranyl acetate	203-341-5	105-87-3	01-211997348 0-35	Skin irritation, Category 2 (H315) Skin sensitisation, Sub-category 1B (H317) Chronic aquatic toxicity, Category 3 (H412)		3-10
decanal	203-957-4	112-31-2	01-211996777 1-26	Skin irritation, Category 2 (H315) Eye irritation, Category 2 (H319) Chronic aquatic toxicity, Category 3 (H412)		3-10
dimethyl benzyl carbonyl butyrate	233-221-8	10094-34-5	01-212074257 8-44	Chronic aquatic toxicity, Category 2 (H411)		3-10
benzyl acetate	205-399-7	140-11-4	01-211963827 2-42	Specific target organ toxicity - Single exposure, Category 3 (H335) Skin irritation, Category 2 (H315) Eye irritation, Category 2 (H319)		3-10
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate	226-501-6	5413-60-5	01-211997828 1-32 01-211993449 1-39 01-212012014 3-77	Chronic aquatic toxicity, Category 3 (H412)		3-10
2-tert-butylcyclohexyl acetate	201-828-7	88-41-5	01-211997071 3-33	Chronic aquatic toxicity, Category 2 (H411)		3-10
2,6-dimethyl-7-en-2-ol	242-362-4	18479-58-8	01-211945727 4-37	Skin irritation, Category 2 (H315) Eye irritation, Category 2 (H319)		3-10
linalool	201-134-4	78-70-6	01-211947401 6-42	Skin irritation, Category 2 (H315) Eye irritation, Category 2 (H319) Skin sensitisation, Sub-category 1B (H317)		3-10
p-mentha-1,4(8)-diene	209-578-0	586-62-9	01-211998232 4-34, 01-211998232 5-32	Flammable liquids, Category 3 (H226) Aspiration toxicity, Category 1 (H304) Skin sensitisation, Sub-category 1B (H317) Chronic aquatic toxicity, Category 2 (H411)		1-3
Isocyclocitral	215-638-7	1335-66-6	01-212012014 7-69	Eye irritation, Category 2 (H319) Skin sensitisation, Sub-category 1B (H317) Chronic aquatic toxicity, Category 3 (H412)		1-3
undecan-4-olide	203-225-4	104-67-6	01-211995933 3-34	Chronic aquatic toxicity, Category 2 (H411)		1-3
Ethyl hexanoate	204-640-3	123-66-0	01-212074910 4-60	Flammable liquids, Category 3 (H226) Specific target organ toxicity - Single exposure, Category 3 (H335) Skin irritation, Category 2 (H315) Eye irritation, Category 2 (H319)		1-3
cineole	207-431-5	470-82-6	01-211996777 2-24	Flammable liquids, Category 3 (H226) Skin sensitisation, Sub-category 1B (H317)		1-3
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)but-3-ene-2-one	238-969-9	14901-07-6	01-211944992 1-34	Chronic aquatic toxicity, Category 2 (H411)		1-3
allyl heptanoate	205-527-1	142-19-8	01-211948896 1-23	Acute toxicity - Oral, Category 3 (H301) Acute toxicity - Dermal, Category 3 (H311) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 3 (H412)		1-3
d-limonene	227-813-5	5989-27-5	01-211952922 3-47	Flammable liquids, Category 3 (H226) Aspiration toxicity, Category 1 (H304) Skin irritation, Category 2 (H315) Skin sensitisation, Sub-category 1B (H317) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 1 M=1 (H410)		1-3
geraniol	203-377-1	106-24-1	01-211955243 0-49 01-211956062 1-44	Skin irritation, Category 2 (H315) Serious eye damage, Category 1 (H318) Skin sensitisation, Category 1 (H317)		1-3
citronellol	203-375-0	106-22-9	01-211945399 5-23	Skin irritation, Category 2 (H315) Eye irritation, Category 2 (H319) Skin sensitisation, Sub-category 1B (H317)		1-3
Dimethyl anthranilate	201-642-6	85-91-6	01-212073698 9-31	Eye irritation, Category 2 (H319) Chronic aquatic toxicity, Category 3 (H412)		1-3
nerol	203-378-7	106-25-2	01-211998324 4-33	Skin irritation, Category 2 (H315) Eye irritation, Category 2 (H319) Skin sensitisation, Sub-category 1B (H317)		0.1-1
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetraamethyl-2-naphthyl)ethan-1-one	259-174-3	54464-57-2	01-211948998 9-04	Skin irritation, Category 2 (H315) Skin sensitisation, Sub-category 1B (H317) Chronic aquatic toxicity, Category 1 M=1 (H410)		0.1-1
3-p-cumenyl-2-methylpropionaldehyde	203-161-7	103-95-7	01-211997058 2-32	Reproductive toxicity, Category 2 (H361) Skin irritation, Category 2 (H315)		0.1-1

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				Skin sensitisation, Sub-category 1B (H317) Chronic aquatic toxicity, Category 3 (H412)	
citronellal	203-376-6	106-23-0	01-211947490 0-37	Skin irritation, Category 2 (H315) Skin sensitisation, Category 1 (H317) Chronic aquatic toxicity, Category 2 (H411)	0.1-1
pin-2(10)-ene	204-872-5	127-91-3	01-211951923 0-54	Flammable liquids, Category 3 (H226) Skin irritation, Category 2 (H315) Skin sensitisation, Sub-category 1B (H317) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 1 M=1 (H410)	0.1-1
allyl 3-cyclohexylpropionate	220-292-5	2705-87-5	01-211997635 5-27	Acute toxicity - Oral, Category 4 (H302) Acute toxicity - Dermal, Category 4 (H312) Acute toxicity - Inhalation, Category 4 (H332) Skin sensitisation, Category 1 (H317) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 1 M=1 (H410)	0.1-1
d-p-mentha-1(6),8-dien-2-one	202-759-5	99-49-0	-	Skin sensitisation, Category 1 (H317)	0.1-1
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol		147060-73-9	01-212076746 7-40	Flammable liquids, Category 3 (H226) Skin irritation, Category 2 (H315) Skin sensitisation, Category 1 (H317) Chronic aquatic toxicity, Category 3 (H412)	0.1-1
citral	226-394-6	5392-40-5	01-211946282 9-23	Skin irritation, Category 2 (H315) Eye irritation, Category 2 (H319) Skin sensitisation, Category 1 (H317)	0.1-1
alpha-methyl-1,3-benzodioxole-5-propionaldehyde	214-881-6	1205-17-0	01-212074011 9-58	Reproductive toxicity, Category 2 (H361) Skin sensitisation, Sub-category 1B (H317) Chronic aquatic toxicity, Category 2 (H411)	0.1-1
p-mentha-1,4-diene	202-794-6	99-85-4	01-212078047 8-40	Flammable liquids, Category 3 (H226) Reproductive toxicity, Category 2 (H361) Chronic aquatic toxicity, Category 2 (H411)	0.1-1
isoeugenol	202-590-7	97-54-1	01-212022368 2-61	Skin sensitisation, Sub-category 1A (H317)	< 0.01

**Specific concentration limits**

isoeugenol:

- Skin sensitisation, Category 1 (H317)  $\geq$  0.01%

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.

**Inhalation:**

Get medical attention or advice if you feel unwell.

**Skin contact:**

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

**Eye contact:**

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

**Ingestion:**

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

**Self-protection of first aider:**

Consider personal protective equipment as indicated in subsection 8.2.

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

No known effects or symptoms in normal use.

**Skin contact:**

Causes irritation. May cause an allergic skin reaction.

**Eye contact:**

Causes severe irritation.

**Ingestion:**

No known effects or symptoms in normal use.

**4.3 Indication of any immediate medical attention and special treatment needed**

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

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

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

**5.2 Special hazards arising from the substance or mixture**

No special hazards known.

**5.3 Advice for firefighters**

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

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Repeated or prolonged contact: 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**

Collect mechanically. Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

**6.4 Reference to other sections**

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

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

No special precautions required.

**Measures required to protect the environment:**

For environmental exposure controls see subsection 8.2.

**Advices on general occupational hygiene:**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

**7.2 Conditions for safe storage, including any incompatibilities**

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

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

Comah - Lower Tier requirements (tonnes): 200

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:

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
linalyl acetate	-	-	-	0.2
geranyl acetate	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
dimethyl benzyl carbonyl butyrate	No data available	No data available	No data available	No data available
benzyl acetate	No data available	No data available	No data available	No data available
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
2,6-dimethyloct-7-en-2-ol	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
p-mentha-1,4(8)-diene	No data available	No data available	No data available	No data available
Isocyclocitral	No data available	No data available	No data available	No data available
undecan-4-olide	No data available	No data available	No data available	No data available
Ethyl hexanoate	No data available	No data available	No data available	No data available

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cineole	No data available	No data available	No data available	No data available
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	No data available	No data available	No data available	No data available
allyl heptanoate	No data available	No data available	No data available	No data available
d-limonene	-	-	-	4.76
geraniol	No data available	No data available	No data available	No data available
citronellol	No data available	No data available	No data available	No data available
Dimethyl anthranilate	No data available	No data available	No data available	No data available
nerol	No data available	No data available	No data available	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
3-p-cumenyl-2-methylpropionaldehyde	No data available	No data available	No data available	No data available
citronellal	No data available	No data available	No data available	No data available
pin-2(10)-ene	No data available	No data available	No data available	No data available
allyl 3-cyclohexylpropionate	No data available	No data available	No data available	No data available
d-p-mentha-1(6),8-dien-2-one	No data available	No data available	No data available	No data available
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol	No data available	No data available	No data available	No data available
citral	No data available	No data available	No data available	No data available
alpha-methyl-1,3-benzodioxole-5-propionaldehyde	No data available	No data available	No data available	No data available
p-mentha-1,4-diene	No data available	No data available	No data available	No data available
isoeugenol	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)
linalyl acetate	No data available	-	No data available	-
geranyl acetate	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
dimethyl benzyl carbonyl butyrate	No data available	No data available	No data available	No data available
benzyl acetate	No data available	No data available	No data available	No data available
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
2,6-dimethyloct-7-en-2-ol	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
p-mentha-1,4(8)-diene	No data available	No data available	No data available	No data available
Isocyclocitral	No data available	No data available	No data available	No data available
undecan-4-olide	No data available	No data available	No data available	No data available
Ethyl hexanoate	No data available	No data available	No data available	No data available
cineole	No data available	No data available	No data available	No data available
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	No data available	No data available	No data available	No data available
allyl heptanoate	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	-
geraniol	No data available	No data available	No data available	No data available
citronellol	No data available	No data available	No data available	No data available
Dimethyl anthranilate	No data available	No data available	No data available	No data available
nerol	No data available	No data available	No data available	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
3-p-cumenyl-2-methylpropionaldehyde	No data available	No data available	No data available	No data available
citronellal	No data available	No data available	No data available	No data available
pin-2(10)-ene	No data available	No data available	No data available	No data available
allyl 3-cyclohexylpropionate	No data available	No data available	No data available	No data available
d-p-mentha-1(6),8-dien-2-one	No data available	No data available	No data available	No data available
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol	No data available	No data available	No data available	No data available
citral	No data available	No data available	No data available	No data available
alpha-methyl-1,3-benzodioxole-5-propionaldehyde	No data available	No data available	No data available	No data available
p-mentha-1,4-diene	No data available	No data available	No data available	No data available
isoeugenol	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)
linalyl acetate	No data available	-	No data available	-
geranyl acetate	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
dimethyl benzyl carbonyl butyrate	No data available	No data available	No data available	No data available
benzyl acetate	No data available	No data available	No data available	No data available
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available

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2,6-dimethyloct-7-en-2-ol	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
p-mentha-1,4(8)-diene	No data available	No data available	No data available	No data available
Isocyclocitral	No data available	No data available	No data available	No data available
undecan-4-olide	No data available	No data available	No data available	No data available
Ethyl hexanoate	No data available	No data available	No data available	No data available
cineole	No data available	No data available	No data available	No data available
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	No data available	No data available	No data available	No data available
allyl heptanoate	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	-
geraniol	No data available	No data available	No data available	No data available
citronellol	No data available	No data available	No data available	No data available
Dimethyl anthranilate	No data available	No data available	No data available	No data available
nerol	No data available	No data available	No data available	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
3-p-cumenyl-2-methylpropionaldehyde	No data available	No data available	No data available	No data available
citronellal	No data available	No data available	No data available	No data available
pin-2(10)-ene	No data available	No data available	No data available	No data available
allyl 3-cyclohexylpropionate	No data available	No data available	No data available	No data available
d-p-mentha-1(6),8-dien-2-one	No data available	No data available	No data available	No data available
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol	No data available	No data available	No data available	No data available
citral	No data available	No data available	No data available	No data available
alpha-methyl-1,3-benzodioxole-5-propionaldehyde	No data available	No data available	No data available	No data available
p-mentha-1,4-diene	No data available	No data available	No data available	No data available
isoeugenol	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
linalyl acetate	-	-	-	-
geranyl acetate	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
dimethyl benzyl carbonyl butyrate	No data available	No data available	No data available	No data available
benzyl acetate	No data available	No data available	No data available	No data available
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
2,6-dimethyloct-7-en-2-ol	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
p-mentha-1,4(8)-diene	No data available	No data available	No data available	No data available
Isocyclocitral	No data available	No data available	No data available	No data available
undecan-4-olide	No data available	No data available	No data available	No data available
Ethyl hexanoate	No data available	No data available	No data available	No data available
cineole	No data available	No data available	No data available	No data available
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	No data available	No data available	No data available	No data available
allyl heptanoate	No data available	No data available	No data available	No data available
d-limonene	-	-	-	33.3
geraniol	No data available	No data available	No data available	No data available
citronellol	No data available	No data available	No data available	No data available
Dimethyl anthranilate	No data available	No data available	No data available	No data available
nerol	No data available	No data available	No data available	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
3-p-cumenyl-2-methylpropionaldehyde	No data available	No data available	No data available	No data available
citronellal	No data available	No data available	No data available	No data available
pin-2(10)-ene	No data available	No data available	No data available	No data available
allyl 3-cyclohexylpropionate	No data available	No data available	No data available	No data available
d-p-mentha-1(6),8-dien-2-one	No data available	No data available	No data available	No data available
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol	No data available	No data available	No data available	No data available
citral	No data available	No data available	No data available	No data available
alpha-methyl-1,3-benzodioxole-5-propionaldehyde	No data available	No data available	No data available	No data available
p-mentha-1,4-diene	No data available	No data available	No data available	No data available
isoeugenol	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	Short term - Systemic	Long term - Local	Long term - Systemic
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	effects	effects	effects	effects
linalyl acetate	-	-	-	-
geranyl acetate	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
dimethyl benzyl carbonyl butyrate	No data available	No data available	No data available	No data available
benzyl acetate	No data available	No data available	No data available	No data available
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
2,6-dimethyloct-7-en-2-ol	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
p-mentha-1,4(8)-diene	No data available	No data available	No data available	No data available
Isocyclocitral	No data available	No data available	No data available	No data available
undecan-4-olide	No data available	No data available	No data available	No data available
Ethyl hexanoate	No data available	No data available	No data available	No data available
cineole	No data available	No data available	No data available	No data available
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	No data available	No data available	No data available	No data available
allyl heptanoate	No data available	No data available	No data available	No data available
d-limonene	-	-	-	8.33
geraniol	No data available	No data available	No data available	No data available
citronellol	No data available	No data available	No data available	No data available
Dimethyl anthranilate	No data available	No data available	No data available	No data available
nerol	No data available	No data available	No data available	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
3-p-cumenyl-2-methylpropionaldehyde	No data available	No data available	No data available	No data available
citronellal	No data available	No data available	No data available	No data available
pin-2(10)-ene	No data available	No data available	No data available	No data available
allyl 3-cyclohexylpropionate	No data available	No data available	No data available	No data available
d-p-mentha-1(6),8-dien-2-one	No data available	No data available	No data available	No data available
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol	No data available	No data available	No data available	No data available
citral	No data available	No data available	No data available	No data available
alpha-methyl-1,3-benzodioxole-5-propionaldehyde	No data available	No data available	No data available	No data available
p-mentha-1,4-diene	No data available	No data available	No data available	No data available
isoeugenol	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)
linalyl acetate	-	-	-	-
geranyl acetate	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
dimethyl benzyl carbonyl butyrate	No data available	No data available	No data available	No data available
benzyl acetate	No data available	No data available	No data available	No data available
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
2,6-dimethyloct-7-en-2-ol	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
p-mentha-1,4(8)-diene	No data available	No data available	No data available	No data available
Isocyclocitral	No data available	No data available	No data available	No data available
undecan-4-olide	No data available	No data available	No data available	No data available
Ethyl hexanoate	No data available	No data available	No data available	No data available
cineole	No data available	No data available	No data available	No data available
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	No data available	No data available	No data available	No data available
allyl heptanoate	No data available	No data available	No data available	No data available
d-limonene	0.014	0.0014	-	1.8
geraniol	No data available	No data available	No data available	No data available
citronellol	No data available	No data available	No data available	No data available
Dimethyl anthranilate	No data available	No data available	No data available	No data available
nerol	No data available	No data available	No data available	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
3-p-cumenyl-2-methylpropionaldehyde	No data available	No data available	No data available	No data available
citronellal	No data available	No data available	No data available	No data available
pin-2(10)-ene	No data available	No data available	No data available	No data available
allyl 3-cyclohexylpropionate	No data available	No data available	No data available	No data available
d-p-mentha-1(6),8-dien-2-one	No data available	No data available	No data available	No data available
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol	No data available	No data available	No data available	No data available

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citral	No data available	No data available	No data available	No data available
alpha-methyl-1,3-benzodioxole-5-propionaldehyde	No data available	No data available	No data available	No data available
p-mentha-1,4-diene	No data available	No data available	No data available	No data available
isoeugenol	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> )
linalyl acetate	-	-	-	-
geranyl acetate	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
dimethyl benzyl carbonyl butyrate	No data available	No data available	No data available	No data available
benzyl acetate	No data available	No data available	No data available	No data available
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate	No data available	No data available	No data available	No data available
2-tert-butylcyclohexyl acetate	No data available	No data available	No data available	No data available
2,6-dimethyloct-7-en-2-ol	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
p-mentha-1,4(8)-diene	No data available	No data available	No data available	No data available
Isocyclocitral	No data available	No data available	No data available	No data available
undecan-4-olide	No data available	No data available	No data available	No data available
Ethyl hexanoate	No data available	No data available	No data available	No data available
cineole	No data available	No data available	No data available	No data available
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	No data available	No data available	No data available	No data available
allyl heptanoate	No data available	No data available	No data available	No data available
d-limonene	3.85	0.385	0.763	-
geraniol	No data available	No data available	No data available	No data available
citronellol	No data available	No data available	No data available	No data available
Dimethyl anthranilate	No data available	No data available	No data available	No data available
nerol	No data available	No data available	No data available	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available	No data available	No data available	No data available
3-p-cumenyl-2-methylpropionaldehyde	No data available	No data available	No data available	No data available
citronellal	No data available	No data available	No data available	No data available
pin-2(10)-ene	No data available	No data available	No data available	No data available
allyl 3-cyclohexylpropionate	No data available	No data available	No data available	No data available
d-p-mentha-1(6),8-dien-2-one	No data available	No data available	No data available	No data available
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol	No data available	No data available	No data available	No data available
citral	No data available	No data available	No data available	No data available
alpha-methyl-1,3-benzodioxole-5-propionaldehyde	No data available	No data available	No data available	No data available
p-mentha-1,4-diene	No data available	No data available	No data available	No data available
isoeugenol	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:** No special requirements under normal use conditions.  
**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

## REACH use scenarios considered for the undiluted product:

	SWED - Sector-specific worker exposure description	LCS	PROC	Duration (min)	ERC
Automatic application in a dedicated system	AISE_SWED_PW_4_2	PW	PROC 4	480	ERC8a

## Personal protective equipment

## Eye / face protection:

## Hand protection:

No special requirements under normal use conditions.

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



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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
<b>Physical state:</b> Solid	
<b>Appearance:</b> Granules	
<b>Colour:</b> Light , from Brown to Yellow	
<b>Odour:</b> Orange Citrus	
<b>Odour threshold:</b> Not applicable	
<b>Melting point/freezing point (°C):</b> Not determined	Not relevant to classification of this product
<b>Initial boiling point and boiling range (°C):</b> Not determined	Not applicable to solids or gases

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
linalyl acetate	No data available		
geranyl acetate	No data available		
decanal	No data available		
dimethyl benzyl carbinyl butyrate	No data available		
benzyl acetate	No data available		
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate	No data available		
2-tert-butylcyclohexyl acetate	No data available		
2,6-dimethyloct-7-en-2-ol	No data available		
linalool	No data available		
p-mentha-1,4(8)-diene	No data available		
Isocyclocitral	No data available		
undecan-4-olide	No data available		
Ethyl hexanoate	No data available		
cineole	No data available		
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	No data available		
allyl heptanoate	No data available		
d-limonene	175-178	Weight of evidence	1013
geraniol	No data available		
citronellol	No data available		
Dimethyl anthranilate	No data available		
nerol	No data available		
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available		
3-p-cumenyl-2-methylpropionaldehyde	No data available		
citronellal	No data available		
pin-2(10)-ene	No data available		
allyl 3-cyclohexylpropionate	No data available		
d-p-mentha-1(6),8-dien-2-one	No data available		
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol	No data available		
citral	No data available		
alpha-methyl-1,3-benzodioxole-5-propionaldehyde	No data available		
p-mentha-1,4-diene	No data available		
isoeugenol	No data available		

	Method / remark
<b>Flammability (solid, gas):</b> Not determined	
<b>Flammability (liquid):</b> Not applicable.	
<b>Flash point (°C):</b> Not applicable.	
<b>Sustained combustion:</b> Not applicable. ( UN Manual of Tests and Criteria, section 32, L.2 )	
<b>Lower and upper explosion limit/flammability limit (%):</b> 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

**Autoignition temperature:** Not determined  
**Decomposition temperature:** Not applicable.  
**pH:** Not applicable Not measured  
**Kinematic viscosity:** Not applicable to solids or gases  
**Solubility in / Miscibility with water:** Insoluble

## Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
linalyl acetate	No data available		
geranyl acetate	No data available		
decanal	No data available		
dimethyl benzyl carbonyl butyrate	No data available		
benzyl acetate	No data available		
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate	No data available		
2-tert-butylcyclohexyl acetate	No data available		
2,6-dimethyloct-7-en-2-ol	No data available		
linalool	No data available		
p-mentha-1,4(8)-diene	No data available		
Isocyclocitral	No data available		
undecan-4-olide	No data available		
Ethyl hexanoate	No data available		
cineole	No data available		
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	No data available		
allyl heptanoate	No data available		
d-limonene	Insoluble	Method not given	20
geraniol	No data available		
citronellol	No data available		
Dimethyl anthranilate	No data available		
nerol	No data available		
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available		
3-p-cumenyl-2-methylpropionaldehyde	No data available		
citronellal	No data available		
pin-2(10)-ene	No data available		
allyl 3-cyclohexylpropionate	No data available		
d-p-mentha-1(6),8-dien-2-one	No data available		
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol	No data available		
citral	No data available		
alpha-methyl-1,3-benzodioxole-5-propionaldehyde	No data available		
p-mentha-1,4-diene	No data available		
isoeugenol	No data available		

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

## Method / remark

**Vapour pressure:** Not determined

See substance data

## Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
linalyl acetate	No data available		
geranyl acetate	No data available		
decanal	No data available		
dimethyl benzyl carbonyl butyrate	No data available		
benzyl acetate	No data available		
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate	No data available		
2-tert-butylcyclohexyl acetate	No data available		
2,6-dimethyloct-7-en-2-ol	No data available		
linalool	No data available		
p-mentha-1,4(8)-diene	101	OECD 104 (EU A.4)	20
Isocyclocitral	No data available		
undecan-4-olide	No data available		
Ethyl hexanoate	No data available		
cineole	No data available		

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4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	No data available		
allyl heptanoate	No data available		
d-limonene	190-230	Method not given	20
geraniol	No data available		
citronellol	No data available		
Dimethyl anthranilate	No data available		
nerol	No data available		
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available		
3-p-cumenyl-2-methylpropionaldehyde	No data available		
citronellal	No data available		
pin-2(10)-ene	No data available		
allyl 3-cyclohexylpropionate	No data available		
d-p-mentha-1(6),8-dien-2-one	No data available		
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol	No data available		
citral	No data available		
alpha-methyl-1,3-benzodioxole-5-propionaldehyde	No data available		
p-mentha-1,4-diene	No data available		
isoeugenol	No data available		

**Relative density:**  $\approx 0.73$  (20 °C)

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

**Particle characteristics:** Not determined.

**Method / remark**

OECD 109 (EU A.3)

Not applicable to solids

Not relevant to classification of this product.

**9.2 Other information**

**9.2.1 Information with regard to physical hazard classes**

**Explosive properties:** Not explosive.

**Oxidising properties:** Not oxidising.

**Corrosion to metals:** Not determined

Not applicable to solids or gases

**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

ATE - Dermal (mg/kg): >2000

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

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**Acute toxicity**

## Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Oral (mg/kg)
linalyl acetate		9000				Not established
geranyl acetate		No data available				Not established
decanal		No data available				Not established
dimethyl benzyl carbonyl butyrate		No data available				Not established
benzyl acetate		No data available				Not established
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate		No data available				Not established
2-tert-butylcyclohexyl acetate		No data available				Not established
2,6-dimethyloct-7-en-2-ol		3600				Not established
linalool	LD <sub>50</sub>	2790	Rat			Not established
p-mentha-1,4(8)-diene		No data available				Not established
Isocyclocitral		No data available				Not established
undecan-4-olide		No data available				Not established
Ethyl hexanoate		No data available				Not established
cineole		4500	Rat	OECD 401 (EU B.1)		Not established
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	LD <sub>50</sub>	4590	Rat	Method not given		Not established
allyl heptanoate	LD <sub>50</sub>	218	Rat	Method not given		218
d-limonene	LD <sub>50</sub>	4400 - 5100	Rat	Method not given		Not established
geraniol		No data available				Not established
citronellol		No data available				Not established
Dimethyl anthranilate		No data available				Not established
nerol		No data available				Not established
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				Not established
3-p-cumenyl-2-methylpropionaldehyde	LD <sub>50</sub>	> 3000				Not established
citronellal		No data available				Not established
pin-2(10)-ene		No data available				Not established
allyl 3-cyclohexylpropionate		No data available				Not established
d-p-mentha-1(6),8-dien-2-one		No data available				Not established
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol	LD <sub>50</sub>	> 2000				Not established
citral	LD <sub>50</sub>	> 2000				Not established
alpha-methyl-1,3-benzodioxole-5-propionaldehyde		No data available				Not established
p-mentha-1,4-diene		No data available				Not established
isoeugenol		No data available				Not established

## Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Dermal (mg/kg)
linalyl acetate		No data available				Not established
geranyl acetate		No data available				Not established
decanal		No data available				Not established
dimethyl benzyl carbonyl butyrate		No data available				Not established
benzyl acetate		No data available				Not established
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate		No data available				Not established
2-tert-butylcyclohexyl acetate		No data available				Not established
2,6-dimethyloct-7-en-2-ol		No data available				Not established

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		available				
linalool		No data available				Not established
p-mentha-1,4(8)-diene		No data available				Not established
Isocyclocitral		No data available				Not established
undecan-4-olide		No data available				Not established
Ethyl hexanoate		No data available				Not established
cineole		No data available				Not established
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one		No data available				Not established
allyl heptanoate	LD <sub>50</sub>	810	Rabbit	Method not given		810
d-limonene	LD <sub>50</sub>	> 5000	Rabbit	Method not given		Not established
geraniol		No data available				Not established
citronellol		No data available				Not established
Dimethyl anthranilate		No data available				Not established
nerol		No data available				Not established
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				Not established
3-p-cumenyl-2-methylpropionaldehyde		No data available				Not established
citronellal		No data available				Not established
pin-2(10)-ene		No data available				Not established
allyl 3-cyclohexylpropionate		No data available				Not established
d-p-mentha-1(6),8-dien-2-one		No data available				Not established
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol		No data available				Not established
citral		No data available				Not established
alpha-methyl-1,3-benzodioxole-5-propionaldehyde		No data available				Not established
p-mentha-1,4-diene		No data available				Not established
isoeugenol		No data available				Not established

## Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
linalyl acetate		No data available			
geranyl acetate		No data available			
decanal		No data available			
dimethyl benzyl carbonyl butyrate		No data available			
benzyl acetate		No data available			
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate		No data available			
2-tert-butylcyclohexyl acetate		No data available			
2,6-dimethyloct-7-en-2-ol		No data available			
linalool		No data available			
p-mentha-1,4(8)-diene		No data available			
Isocyclocitral		No data available			
undecan-4-olide		No data available			
Ethyl hexanoate		No data available			
cineole		No data available			
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one		No data			

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		available		
allyl heptanoate		No data available		
d-limonene		No data available		
geraniol		No data available		
citronellol		No data available		
Dimethyl anthranilate		No data available		
nerol		No data available		
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available		
3-p-cumenyl-2-methylpropionaldehyde		No data available		
citronellal		No data available		
pin-2(10)-ene		No data available		
allyl 3-cyclohexylpropionate		No data available		
d-p-mentha-1(6),8-dien-2-one		No data available		
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol		No data available		
citral		No data available		
alpha-methyl-1,3-benzodioxole-5-propionaldehyde		No data available		
p-mentha-1,4-diene		No data available		
isoeugenol		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)
linalyl acetate	Not established	Not established	Not established	Not established
geranyl acetate	Not established	Not established	Not established	Not established
decanal	Not established	Not established	Not established	Not established
dimethyl benzyl carbonyl butyrate	Not established	Not established	Not established	Not established
benzyl acetate	Not established	Not established	Not established	Not established
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate	Not established	Not established	Not established	Not established
2-tert-butylcyclohexyl acetate	Not established	Not established	Not established	Not established
2,6-dimethyloct-7-en-2-ol	Not established	Not established	Not established	Not established
linalool	Not established	Not established	Not established	Not established
p-mentha-1,4(8)-diene	Not established	Not established	Not established	Not established
Isocyclocitral	Not established	Not established	Not established	Not established
undecan-4-olide	Not established	Not established	Not established	Not established
Ethyl hexanoate	Not established	Not established	Not established	Not established
cineole	Not established	Not established	Not established	Not established
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	Not established	Not established	Not established	Not established
allyl heptanoate	Not established	Not established	Not established	Not established
d-limonene	Not established	Not established	Not established	Not established
geraniol	Not established	Not established	Not established	Not established
citronellol	Not established	Not established	Not established	Not established
Dimethyl anthranilate	Not established	Not established	Not established	Not established
nerol	Not established	Not established	Not established	Not established
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	Not established	Not established	Not established	Not established
3-p-cumenyl-2-methylpropionaldehyde	Not established	Not established	Not established	Not established
citronellal	Not established	Not established	Not established	Not established
pin-2(10)-ene	Not established	Not established	Not established	Not established
allyl 3-cyclohexylpropionate	Not established	Not established	Not established	Not established
d-p-mentha-1(6),8-dien-2-one	Not established	Not established	Not established	Not established
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol	Not established	Not established	Not established	Not established
citral	Not established	Not established	Not established	Not established
alpha-methyl-1,3-benzodioxole-5-propionaldehyde	Not established	Not established	Not established	Not established
p-mentha-1,4-diene	Not established	Not established	Not established	Not established
isoeugenol	Not established	Not established	Not established	Not established

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## Irritation and corrosivity

## Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
linalyl acetate	No data available			
geranyl acetate	No data available			
decanal	No data available			
dimethyl benzyl carbonyl butyrate	No data available			
benzyl acetate	No data available			
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate	No data available			
2-tert-butylcyclohexyl acetate	No data available			
2,6-dimethyloct-7-en-2-ol	No data available			
linalool	No data available			
p-mentha-1,4(8)-diene	No data available			
Isocyclocitral	No data available			
undecan-4-olide	No data available			
Ethyl hexanoate	No data available			
cineole	No data available			
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	No data available			
allyl heptanoate	Not irritant			
d-limonene	Irritant	Rabbit	Method not given	
geraniol	No data available			
citronellol	No data available			
Dimethyl anthranilate	No data available			
nerol	No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
3-p-cumenyl-2-methylpropionaldehyde	No data available			
citronellal	No data available			
pin-2(10)-ene	No data available			
allyl 3-cyclohexylpropionate	No data available			
d-p-mentha-1(6),8-dien-2-one	No data available			
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol	No data available			
citral	No data available			
alpha-methyl-1,3-benzodioxole-5-propionaldehyde	No data available			
p-mentha-1,4-diene	No data available			
isoeugenol	No data available			

## Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
linalyl acetate	No data available			
geranyl acetate	No data available			
decanal	No data available			
dimethyl benzyl carbonyl butyrate	No data available			
benzyl acetate	No data available			
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate	No data available			
2-tert-butylcyclohexyl acetate	No data available			
2,6-dimethyloct-7-en-2-ol	No data available			
linalool	No data available			
p-mentha-1,4(8)-diene	No data available			
Isocyclocitral	No data available			
undecan-4-olide	No data available			
Ethyl hexanoate	No data available			
cineole	No data available			
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	No data available			
allyl heptanoate	Not corrosive or irritant			
d-limonene	No data available			
geraniol	No data available			
citronellol	No data available			
Dimethyl anthranilate	No data available			
nerol	No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
3-p-cumenyl-2-methylpropionaldehyde	No data available			
citronellal	No data available			
pin-2(10)-ene	No data available			
allyl 3-cyclohexylpropionate	No data available			

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d-p-mentha-1(6),8-dien-2-one	No data available		
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol	No data available		
citral	No data available		
alpha-methyl-1,3-benzodioxole-5-propionaldehyde	No data available		
p-mentha-1,4-diene	No data available		
isoeugenol	No data available		

## Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
linalyl acetate	No data available			
geranyl acetate	No data available			
decanal	No data available			
dimethyl benzyl carbonyl butyrate	No data available			
benzyl acetate	No data available			
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate	No data available			
2-tert-butylcyclohexyl acetate	No data available			
2,6-dimethyloct-7-en-2-ol	No data available			
linalool	No data available			
p-mentha-1,4(8)-diene	No data available			
Isocyclocitral	No data available			
undecan-4-olide	No data available			
Ethyl hexanoate	No data available			
cineole	No data available			
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	No data available			
allyl heptanoate	No data available			
d-limonene	No data available			
geraniol	No data available			
citronellol	No data available			
Dimethyl anthranilate	No data available			
nerol	No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
3-p-cumenyl-2-methylpropionaldehyde	No data available			
citronellal	No data available			
pin-2(10)-ene	No data available			
allyl 3-cyclohexylpropionate	No data available			
d-p-mentha-1(6),8-dien-2-one	No data available			
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol	No data available			
citral	No data available			
alpha-methyl-1,3-benzodioxole-5-propionaldehyde	No data available			
p-mentha-1,4-diene	No data available			
isoeugenol	No data available			

## Sensitisation

## Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
linalyl acetate	No data available			
geranyl acetate	No data available			
decanal	No data available			
dimethyl benzyl carbonyl butyrate	No data available			
benzyl acetate	No data available			
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate	No data available			
2-tert-butylcyclohexyl acetate	No data available			
2,6-dimethyloct-7-en-2-ol	No data available			
linalool	No data available			
p-mentha-1,4(8)-diene	No data available			
Isocyclocitral	No data available			
undecan-4-olide	No data available			
Ethyl hexanoate	No data available			
cineole	No data available			
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	No data available			
allyl heptanoate	No data available			
d-limonene	Sensitising	Guinea pig	Method not given	
geraniol	No data available			



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citronellol	No data available		
Dimethyl anthranilate	No data available		
nerol	No data available		
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available		
3-p-cumenyl-2-methylpropionaldehyde	No data available		
citronellal	No data available		
pin-2(10)-ene	No data available		
allyl 3-cyclohexylpropionate	No data available		
d-p-mentha-1(6),8-dien-2-one	No data available		
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol	No data available		
citral	No data available		
alpha-methyl-1,3-benzodioxole-5-propionaldehyde	No data available		
p-mentha-1,4-diene	No data available		
isoeugenol	No data available		

## Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
linalyl acetate	No data available			
geranyl acetate	No data available			
decanal	No data available			
dimethyl benzyl carbonyl butyrate	No data available			
benzyl acetate	No data available			
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate	No data available			
2-tert-butylcyclohexyl acetate	No data available			
2,6-dimethyloct-7-en-2-ol	No data available			
linalool	No data available			
p-mentha-1,4(8)-diene	No data available			
Isocyclocitral	No data available			
undecan-4-olide	No data available			
Ethyl hexanoate	No data available			
cineole	No data available			
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	No data available			
allyl heptanoate	No data available			
d-limonene	No data available			
geraniol	No data available			
citronellol	No data available			
Dimethyl anthranilate	No data available			
nerol	No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
3-p-cumenyl-2-methylpropionaldehyde	No data available			
citronellal	No data available			
pin-2(10)-ene	No data available			
allyl 3-cyclohexylpropionate	No data available			
d-p-mentha-1(6),8-dien-2-one	No data available			
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol	No data available			
citral	No data available			
alpha-methyl-1,3-benzodioxole-5-propionaldehyde	No data available			
p-mentha-1,4-diene	No data available			
isoeugenol	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)
linalyl acetate	No data available		No data available	
geranyl acetate	No data available		No data available	
decanal	No data available		No data available	
dimethyl benzyl carbonyl butyrate	No data available		No data available	
benzyl acetate	No data available		No data available	
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate	No data available		No data available	
2-tert-butylcyclohexyl acetate	No data available		No data available	
2,6-dimethyloct-7-en-2-ol	No data available		No data available	
linalool	No data available		No data available	

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p-mentha-1,4(8)-diene	No data available		No data available	
Isocyclocitral	No data available		No data available	
undecan-4-olide	No data available		No data available	
Ethyl hexanoate	No data available		No data available	
cineole	No data available		No data available	
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	No data available		No data available	
allyl heptanoate	No data available		No data available	
d-limonene	No data available		No data available	
geraniol	No data available		No data available	
citronellol	No data available		No data available	
Dimethyl anthranilate	No data available		No data available	
nerol	No data available		No data available	
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available		No data available	
3-p-cumenyl-2-methylpropionaldehyde	No data available		No data available	
citronellal	No data available		No data available	
pin-2(10)-ene	No data available		No data available	
allyl 3-cyclohexylpropionate	No data available		No data available	
d-p-mentha-1(6),8-dien-2-one	No data available		No data available	
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol	No data available		No data available	
citral	No data available		No data available	
alpha-methyl-1,3-benzodioxole-5-propionaldehyde	No data available		No data available	
p-mentha-1,4-diene	No data available		No data available	
isoeugenol	No data available		No data available	

## Carcinogenicity

Ingredient(s)	Effect
linalyl acetate	No data available
geranyl acetate	No data available
decanal	No data available
dimethyl benzyl carbonyl butyrate	No data available
benzyl acetate	No data available
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate	No data available
2-tert-butylcyclohexyl acetate	No data available
2,6-dimethyloct-7-en-2-ol	No data available
linalool	No data available
p-mentha-1,4(8)-diene	No data available
Isocyclocitral	No data available
undecan-4-olide	No data available
Ethyl hexanoate	No data available
cineole	No data available
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	No data available
allyl heptanoate	No data available
d-limonene	No data available
geraniol	No data available
citronellol	No data available
Dimethyl anthranilate	No data available
nerol	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available
3-p-cumenyl-2-methylpropionaldehyde	No data available
citronellal	No data available
pin-2(10)-ene	No data available
allyl 3-cyclohexylpropionate	No data available
d-p-mentha-1(6),8-dien-2-one	No data available
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol	No data available
citral	No data available
alpha-methyl-1,3-benzodioxole-5-propionaldehyde	No data available
p-mentha-1,4-diene	No data available
isoeugenol	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
linalyl acetate			No data available				

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geranyl acetate			No data available				
decanal			No data available				
dimethyl benzyl carbonyl butyrate			No data available				
benzyl acetate			No data available				
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate			No data available				
2-tert-butylcyclohexyl acetate			No data available				
2,6-dimethyloct-7-en-2-ol			No data available				
linalool			No data available				
p-mentha-1,4(8)-diene			No data available				
Isocyclocitral			No data available				
undecan-4-olide			No data available				
Ethyl hexanoate			No data available				
cineole			No data available				
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one			No data available				
allyl heptanoate			No data available				
d-limonene			No data available				
geraniol			No data available				
citronellol			No data available				
Dimethyl anthranilate			No data available				
nerol			No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one			No data available				
3-p-cumenyl-2-methylpropionaldehyde			No data available				
citronellal			No data available				
pin-2(10)-ene			No data available				
allyl 3-cyclohexylpropionate			No data available				
d-p-mentha-1(6),8-diene-2-one			No data available				
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol			No data available				
citral			No data available				
alpha-methyl-1,3-benzodioxole-5-propionaldehyde			No data available				
p-mentha-1,4-diene			No data available				
isoeugenol			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
linalyl acetate		No data available				
geranyl acetate		No data available				
decanal		No data available				
dimethyl benzyl carbonyl butyrate		No data available				

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		available				
benzyl acetate		No data available				
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate		No data available				
2-tert-butylcyclohexyl acetate		No data available				
2,6-dimethyloct-7-en-2-ol		No data available				
linalool		No data available				
p-mentha-1,4(8)-diene		No data available				
Isocyclocitral		No data available				
undecan-4-olide		No data available				
Ethyl hexanoate		No data available				
cineole		No data available				
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one		No data available				
allyl heptanoate		No data available				
d-limonene		No data available				
geraniol		No data available				
citronellol		No data available				
Dimethyl anthranilate		No data available				
nerol		No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				
3-p-cumenyl-2-methylpropionaldehyde		No data available				
citronellal		No data available				
pin-2(10)-ene		No data available				
allyl 3-cyclohexylpropionate		No data available				
d-p-mentha-1(6),8-dien-2-one		No data available				
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol		No data available				
citral		No data available				
alpha-methyl-1,3-benzodioxole-5-propionaldehyde		No data available				
p-mentha-1,4-diene		No data available				
isoeugenol		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
linalyl acetate		No data available				
geranyl acetate		No data available				
decanal		No data available				
dimethyl benzyl carbonyl butyrate		No data available				
benzyl acetate		No data available				
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate		No data available				
2-tert-butylcyclohexyl acetate		No data available				
2,6-dimethyloct-7-en-2-ol		No data available				
linalool		No data available				
p-mentha-1,4(8)-diene		No data available				

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Isocyclocitral		No data available				
undecan-4-olide		No data available				
Ethyl hexanoate		No data available				
cineole		No data available				
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one		No data available				
allyl heptanoate		No data available				
d-limonene		No data available				
geraniol		No data available				
citronellol		No data available				
Dimethyl anthranilate		No data available				
nerol		No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				
3-p-cumenyl-2-methylpropionaldehyde		No data available				
citronellal		No data available				
pin-2(10)-ene		No data available				
allyl 3-cyclohexylpropionate		No data available				
d-p-mentha-1(6),8-dien-2-one		No data available				
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol		No data available				
citral		No data available				
alpha-methyl-1,3-benzodioxole-5-propionaldehyde		No data available				
p-mentha-1,4-diene		No data available				
isoeugenol		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
linalyl acetate		No data available				
geranyl acetate		No data available				
decanal		No data available				
dimethyl benzyl carbonyl butyrate		No data available				
benzyl acetate		No data available				
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate		No data available				
2-tert-butylcyclohexyl acetate		No data available				
2,6-dimethyloct-7-en-2-ol		No data available				
linalool		No data available				
p-mentha-1,4(8)-diene		No data available				
Isocyclocitral		No data available				
undecan-4-olide		No data available				
Ethyl hexanoate		No data available				
cineole		No data available				
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one		No data available				
allyl heptanoate		No data available				
d-limonene		No data available				

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		available				
geraniol		No data available				
citronellol		No data available				
Dimethyl anthranilate		No data available				
nerol		No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				
3-p-cumenyl-2-methylpropionaldehyde		No data available				
citronellal		No data available				
pin-2(10)-ene		No data available				
allyl 3-cyclohexylpropionate		No data available				
d-p-mentha-1(6),8-dien-2-one		No data available				
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol		No data available				
citral		No data available				
alpha-methyl-1,3-benzodioxole-5-propionaldehyde		No data available				
p-mentha-1,4-diene		No data available				
isoeugenol		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
linalyl acetate			No data available					
geranyl acetate			No data available					
decanal			No data available					
dimethyl benzyl carbonyl butyrate			No data available					
benzyl acetate			No data available					
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate			No data available					
2-tert-butylcyclohexyl acetate			No data available					
2,6-dimethyloct-7-en-2-ol			No data available					
linalool			No data available					
p-mentha-1,4(8)-diene			No data available					
Isocyclocitral			No data available					
undecan-4-olide			No data available					
Ethyl hexanoate			No data available					
cineole			No data available					
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one			No data available					
allyl heptanoate			No data available					
d-limonene			No data available					
geraniol			No data available					
citronellol			No data available					
Dimethyl anthranilate			No data available					
nerol			No data available					
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl			No data available					

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-2-naphthyl)ethan-1-one							
3-p-cumenyl-2-methylpropionaldehyde			No data available				
citronellal			No data available				
pin-2(10)-ene			No data available				
allyl 3-cyclohexylpropionate			No data available				
d-p-mentha-1(6),8-dien-2-one			No data available				
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol			No data available				
citral			No data available				
alpha-methyl-1,3-benzodioxole-5-propionaldehyde			No data available				
p-mentha-1,4-diene			No data available				
isoeugenol			No data available				

## STOT-single exposure

Ingredient(s)	Affected organ(s)
linalyl acetate	No data available
geranyl acetate	No data available
decanal	No data available
dimethyl benzyl carbonyl butyrate	No data available
benzyl acetate	No data available
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate	No data available
2-tert-butylcyclohexyl acetate	No data available
2,6-dimethyloct-7-en-2-ol	No data available
linalool	No data available
p-mentha-1,4(8)-diene	No data available
Isocyclocitral	No data available
undecan-4-olide	No data available
Ethyl hexanoate	No data available
cineole	No data available
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	No data available
allyl heptanoate	No data available
d-limonene	No data available
geraniol	No data available
citronellol	No data available
Dimethyl anthranilate	No data available
nerol	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available
3-p-cumenyl-2-methylpropionaldehyde	No data available
citronellal	No data available
pin-2(10)-ene	No data available
allyl 3-cyclohexylpropionate	No data available
d-p-mentha-1(6),8-dien-2-one	No data available
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol	No data available
citral	No data available
alpha-methyl-1,3-benzodioxole-5-propionaldehyde	No data available
p-mentha-1,4-diene	No data available
isoeugenol	No data available

## STOT-repeated exposure

Ingredient(s)	Affected organ(s)
linalyl acetate	No data available
geranyl acetate	No data available
decanal	No data available
dimethyl benzyl carbonyl butyrate	No data available
benzyl acetate	No data available
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate	No data available
2-tert-butylcyclohexyl acetate	No data available
2,6-dimethyloct-7-en-2-ol	No data available
linalool	No data available

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p-mentha-1,4(8)-diene	No data available
Isocyclocitral	No data available
undecan-4-olide	No data available
Ethyl hexanoate	No data available
cineole	No data available
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	No data available
allyl heptanoate	No data available
d-limonene	No data available
geraniol	No data available
citronellol	No data available
Dimethyl anthranilate	No data available
nerol	No data available
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available
3-p-cumenyl-2-methylpropionaldehyde	No data available
citronellal	No data available
pin-2(10)-ene	No data available
allyl 3-cyclohexylpropionate	No data available
d-p-mentha-1(6),8-dien-2-one	No data available
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol	No data available
citral	No data available
alpha-methyl-1,3-benzodioxole-5-propionaldehyde	No data available
p-mentha-1,4-diene	No data available
isoeugenol	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)
linalyl acetate	LC <sub>50</sub>	11	<i>Cyprinus carpio</i>	OECD 203, flow-through	96
geranyl acetate		No data available			
decanal		No data available			
dimethyl benzyl carbonyl butyrate		No data available			
benzyl acetate		No data available			
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate		No data available			
2-tert-butylcyclohexyl acetate		No data available			
2,6-dimethyloct-7-en-2-ol	LC <sub>50</sub>	27.8	<i>Oncorhynchus mykiss</i>	OECD 203, static	96
linalool		No data available			
p-mentha-1,4(8)-diene		No data available			
Isocyclocitral		No data available			
undecan-4-olide		No data			



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		available			
Ethyl hexanoate		No data available			
cineole		No data available			
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	LC <sub>50</sub>	6.81	<i>Fish</i>	DIN 38412, Part 15	96
allyl heptanoate	LC <sub>50</sub>	0.12	<i>Brachydanio rerio</i>	OECD 203, semi-static	96
d-limonene	LC <sub>50</sub>	0.72	<i>Pimephales promelas</i>	OECD 203 (EU C.1)	96
geraniol		No data available			
citronellol		No data available			
Dimethyl anthranilate		No data available			
nerol		No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	LC <sub>50</sub>	1.3	<i>Lepomis macrochirus</i>	OECD 203, semi-static	96
3-p-cumenyl-2-methylpropionaldehyde		No data available			
citronellal		No data available			
pin-2(10)-ene		No data available			
allyl 3-cyclohexylpropionate		No data available			
d-p-mentha-1(6),8-dien-2-one		No data available			
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol		No data available			
citral		No data available			
alpha-methyl-1,3-benzodioxole-5-propionaldehyde		No data available			
p-mentha-1,4-diene		No data available			
isoeugenol		No data available			

## Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
linalyl acetate	EC <sub>50</sub>	59	<i>Daphnia</i>	OECD 202, static	48
geranyl acetate		No data available			
decanal		No data available			
dimethyl benzyl carbonyl butyrate		No data available			
benzyl acetate		No data available			
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate		No data available			
2-tert-butylcyclohexyl acetate		No data available			
2,6-dimethyloct-7-en-2-ol	EC <sub>50</sub>	38	<i>Daphnia</i>	OECD 202, static	48
linalool		No data available			
p-mentha-1,4(8)-diene		No data available			
Isocyclocitral		No data available			
undecan-4-olide	EC <sub>50</sub>	5.85	<i>Daphnia magna Straus</i>	OECD 202, static	48
Ethyl hexanoate		No data available			
cineole		No data available			
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	LC <sub>50</sub>	4.03	<i>Daphnia magna Straus</i>	OECD 202, static	48
allyl heptanoate		No data available			
d-limonene	EC <sub>50</sub>	0.36	<i>Daphnia magna Straus</i>	OECD 202 (EU C.2)	48
geraniol		No data available			
citronellol		No data available			

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Dimethyl anthranilate		No data available			
nerol		No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	EC <sub>50</sub>	1.38	<i>Daphnia</i>	OECD 202, semi-static	48
3-p-cumenyl-2-methylpropionaldehyde		No data available			
citronellal		No data available			
pin-2(10)-ene		No data available			
allyl 3-cyclohexylpropionate		No data available			
d-p-mentha-1(6),8-dien-2-one		No data available			
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol		No data available			
citral		No data available			
alpha-methyl-1,3-benzodioxole-5-propionaldehyde		No data available			
p-mentha-1,4-diene		No data available			
isoeugenol		No data available			

## Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
linalyl acetate	EC <sub>50</sub>	68	<i>Pseudokirchneriella subcapitata</i>	OECD 201 (EU C.3)	72
geranyl acetate		No data available			
decanal		No data available			
dimethyl benzyl carbonyl butyrate		No data available			
benzyl acetate		No data available			
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate		No data available			
2-tert-butylcyclohexyl acetate		No data available			
2,6-dimethyloct-7-en-2-ol	E <sub>b</sub> C <sub>50</sub>	65	<i>Desmodesmus subspicatus</i>	OECD 201, static	72
linalool		No data available			
p-mentha-1,4(8)-diene		No data available			
Isocyclocitral		No data available			
undecan-4-olide	EC <sub>50</sub>	7.218	<i>Pseudokirchneriella subcapitata</i>	OECD 201, static	72
Ethyl hexanoate		No data available			
cineole		No data available			
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	E <sub>b</sub> C <sub>50</sub>	20.9	<i>Desmodesmus subspicatus</i>	DIN 38412, Part 9	72
allyl heptanoate		No data available			
d-limonene	E <sub>r</sub> C <sub>50</sub>	150	<i>Desmodesmus subspicatus</i>	OECD 201 (EU C.3)	72
geraniol		No data available			
citronellol		No data available			
Dimethyl anthranilate		No data available			
nerol		No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	EC <sub>50</sub>	> 2.6	<i>Desmodesmus subspicatus</i>	OECD 201, static	72
3-p-cumenyl-2-methylpropionaldehyde		No data available			
citronellal		No data available			
pin-2(10)-ene		No data available			

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allyl 3-cyclohexylpropionate		No data available		
d-p-mentha-1(6),8-dien-2-one		No data available		
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol		No data available		
citral		No data available		
alpha-methyl-1,3-benzodioxole-5-propionaldehyde		No data available		
p-mentha-1,4-diene		No data available		
isoeugenol		No data available		

## Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
linalyl acetate		No data available			
geranyl acetate		No data available			
decanal		No data available			
dimethyl benzyl carbonyl butyrate		No data available			
benzyl acetate		No data available			
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate		No data available			
2-tert-butylcyclohexyl acetate		No data available			
2,6-dimethyloct-7-en-2-ol		No data available			
linalool		No data available			
p-mentha-1,4(8)-diene		No data available			
Isocyclocitral		No data available			
undecan-4-olide		No data available			
Ethyl hexanoate		No data available			
cineole		No data available			
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one		No data available			
allyl heptanoate		No data available			
d-limonene		No data available			
geraniol		No data available			
citronellol		No data available			
Dimethyl anthranilate		No data available			
nerol		No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available			
3-p-cumenyl-2-methylpropionaldehyde		No data available			
citronellal		No data available			
pin-2(10)-ene		No data available			
allyl 3-cyclohexylpropionate		No data available			
d-p-mentha-1(6),8-dien-2-one		No data available			
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol		No data available			
citral		No data available			
alpha-methyl-1,3-benzodioxole-5-propionaldehyde		No data available			
p-mentha-1,4-diene		No data available			
isoeugenol		No data			

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		available		
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## Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
linalyl acetate		No data available			
geranyl acetate		No data available			
decanal		No data available			
dimethyl benzyl carbonyl butyrate		No data available			
benzyl acetate		No data available			
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate		No data available			
2-tert-butylcyclohexyl acetate		No data available			
2,6-dimethyloct-7-en-2-ol		No data available			
linalool		No data available			
p-mentha-1,4(8)-diene		No data available			
Isocyclocitral		No data available			
undecan-4-olide		No data available			
Ethyl hexanoate		No data available			
cineole		No data available			
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one		No data available			
allyl heptanoate		No data available			
d-limonene		No data available			
geraniol		No data available			
citronellol		No data available			
Dimethyl anthranilate		No data available			
nerol		No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available			
3-p-cumenyl-2-methylpropionaldehyde		No data available			
citronellal		No data available			
pin-2(10)-ene		No data available			
allyl 3-cyclohexylpropionate		No data available			
d-p-mentha-1(6),8-dien-2-one		No data available			
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol		No data available			
citral		No data available			
alpha-methyl-1,3-benzodioxole-5-propionaldehyde		No data available			
p-mentha-1,4-diene		No data available			
isoeugenol		No data available			

## Aquatic long-term toxicity

## Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
linalyl acetate		No data available				
geranyl acetate		No data available				
decanal		No data available				

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dimethyl benzyl carbinylyl butyrate		No data available				
benzyl acetate		No data available				
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate		No data available				
2-tert-butylcyclohexyl acetate		No data available				
2,6-dimethyloct-7-en-2-ol		No data available				
linalool		No data available				
p-mentha-1,4(8)-diene		No data available				
Isocyclocitral		No data available				
undecan-4-olide		No data available				
Ethyl hexanoate		No data available				
cineole		No data available				
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one		No data available				
allyl heptanoate		No data available				
d-limonene		No data available				
geraniol		No data available				
citronellol		No data available				
Dimethyl anthranilate		No data available				
nerol		No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				
3-p-cumenylyl-2-methylpropionaldehyde		No data available				
citronellal		No data available				
pin-2(10)-ene		No data available				
allyl 3-cyclohexylpropionate		No data available				
d-p-mentha-1(6),8-dien-2-one		No data available				
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol		No data available				
citral		No data available				
alpha-methyl-1,3-benzodioxole-5-propionaldehyde		No data available				
p-mentha-1,4-diene		No data available				
isoeugenol		No data available				

## Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
linalyl acetate		No data available				
geranyl acetate		No data available				
decanal		No data available				
dimethyl benzyl carbinylyl butyrate		No data available				
benzyl acetate		No data available				
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate		No data available				
2-tert-butylcyclohexyl acetate		No data available				
2,6-dimethyloct-7-en-2-ol		No data available				
linalool		No data available				
p-mentha-1,4(8)-diene		No data available				

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		available				
Isocyclocitral		No data available				
undecan-4-olide		No data available				
Ethyl hexanoate		No data available				
cineole		No data available				
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one		No data available				
allyl heptanoate		No data available				
d-limonene		No data available				
geraniol		No data available				
citronellol		No data available				
Dimethyl anthranilate		No data available				
nerol		No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8-tetramethyl-2-naphthyl)ethan-1-one		No data available				
3-p-cumenyl-2-methylpropionaldehyde		No data available				
citronellal		No data available				
pin-2(10)-ene		No data available				
allyl 3-cyclohexylpropionate		No data available				
d-p-mentha-1(6),8-dien-2-one		No data available				
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol		No data available				
citral		No data available				
alpha-methyl-1,3-benzodioxole-5-propionaldehyde		No data available				
p-mentha-1,4-diene		No data available				
isoeugenol		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
linalyl acetate		No data available				
geranyl acetate		No data available				
decanal		No data available				
dimethyl benzyl carbonyl butyrate		No data available				
benzyl acetate		No data available				
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate		No data available				
2-tert-butylcyclohexyl acetate		No data available				
2,6-dimethyloct-7-en-2-ol		No data available				
linalool		No data available				
p-mentha-1,4(8)-diene		No data available				
Isocyclocitral		No data available				
undecan-4-olide		No data available				
Ethyl hexanoate		No data available				
cineole		No data available				
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one		No data available				
allyl heptanoate		No data available				

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		available			
d-limonene		No data available			
geraniol		No data available			
citronellol		No data available			
Dimethyl anthranilate		No data available			
nerol		No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one		No data available			
3-p-cumenyl-2-methylpropionaldehyde		No data available			
citronellal		No data available			
pin-2(10)-ene		No data available			
allyl 3-cyclohexylpropionate		No data available			
d-p-mentha-1(6),8-dien-2-one		No data available			
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol		No data available			
citral		No data available			
alpha-methyl-1,3-benzodioxole-5-propionaldehyde		No data available			
p-mentha-1,4-diene		No data available			
isoeugenol		No data available			

**Terrestrial toxicity**

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

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

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

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

**Biodegradation**

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT <sub>50</sub>	Method	Evaluation
linalyl acetate				OECD 301F	Readily biodegradable
geranyl acetate	Activated sludge, aerobe	CO <sub>2</sub> production			Readily biodegradable
decanal				OECD 301F	Readily biodegradable
dimethyl benzyl carbonyl butyrate				OECD 301F	Readily biodegradable
benzyl acetate	Activated sludge, aerobe	CO <sub>2</sub> production	100.9% in 28 day(s)	OECD 301B	Readily biodegradable
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate					Readily biodegradable
2-tert-butylcyclohexyl acetate				Method not given	Not readily biodegradable.
2,6-dimethyloct-7-en-2-ol				OECD 301B	Readily biodegradable
linalool	Activated sludge, aerobe	Oxygen depletion	64.2% in 28 day(s)	OECD 301D	Readily biodegradable
p-mentha-1,4(8)-diene				OECD 301D	Readily biodegradable
Isocyclocitral		Episuite			Readily biodegradable
undecan-4-olide				OECD 301F	Readily biodegradable

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Ethyl hexanoate				OECD 301F	Readily biodegradable
cineole				OECD 301F	Readily biodegradable
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one			75.4% in 28 day(s)	OECD 301B	Readily biodegradable
allyl heptanoate	Activated sludge, aerobe		40%	OECD 301D	Not readily biodegradable.
d-limonene			80 % in 28 day(s)	OECD 301D	Readily biodegradable
geraniol				OECD 301F	Readily biodegradable
citronellol	Activated sludge, aerobe	CO <sub>2</sub> production		OECD 301F	Readily biodegradable
Dimethyl anthranilate				OECD 301D	Inherently biodegradable.
nerol				OECD 301D	Readily biodegradable
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one					Not readily biodegradable.
3-p-cumenyl-2-methylpropionaldehyde				OECD 301B	Readily biodegradable
citronellal	Activated sludge, aerobe		83%	OECD 301B	Readily biodegradable
pin-2(10)-ene				Weight of evidence	Readily biodegradable
allyl 3-cyclohexylpropionate					Readily biodegradable
d-p-mentha-1(6),8-dien-2-one					Not readily biodegradable.
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol					Not readily biodegradable.
citral				OECD 301F	Readily biodegradable
alpha-methyl-1,3-benzodioxole-5-propionaldehyde					Not readily biodegradable.
p-mentha-1,4-diene	Activated sludge, aerobe	Oxygen depletion	27% in 28 day(s)	OECD 301F	Readily biodegradable
isoeugenol		Oxygen depletion	79% in 28 day(s)	OECD 301F	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

### 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
linalyl acetate	No data available			
geranyl acetate	No data available			
decanal	No data available			
dimethyl benzyl carbonyl butyrate	No data available			
benzyl acetate	No data available			
3a,4,5,6,7,7a-hexahydro-4,7-methanoin den-6-yl acetate	No data available			
2-tert-butylcyclohexyl acetate	No data available			
2,6-dimethyloct-7-en-2-ol	No data available			
linalool	No data available			
p-mentha-1,4(8)-diene	No data available			
Isocyclocitral	No data available			
undecan-4-olide	No data available			
Ethyl hexanoate	No data available			
cineole	No data available			
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	No data available			
allyl heptanoate	No data available			
d-limonene	No data available		High potential for bioaccumulation	
geraniol	No data available			
citronellol	No data available			
Dimethyl anthranilate	No data available			
nerol	No data available			
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available			
3-p-cumenyl-2-methylpropionaldehyde	No data available			
citronellal	No data available			
pin-2(10)-ene	No data available			
allyl 3-cyclohexylpropionate	No data available			
d-p-mentha-1(6),8-dien-2-one	No data available			
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol	No data available			
citral	No data available			
alpha-methyl-1,3-benzodioxole-5-propio	No data available			



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naldehyde				
p-mentha-1,4-diene	No data available			
isoeugenol	No data available			

## Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
linalyl acetate	No data available				
geranyl acetate	No data available				
decanal	No data available				
dimethyl benzyl carbiny butyrate	No data available				
benzyl acetate	No data available				
3a,4,5,6,7,7a-hexahydr o-4,7-methanoinden-6- yl acetate	No data available				
2-tert-butylcyclohexyl acetate	No data available				
2,6-dimethyloct-7-en-2- ol	No data available				
linalool	No data available				
p-mentha-1,4(8)-diene	No data available				
Isocyclocitral	No data available				
undecan-4-olide	No data available				
Ethyl hexanoate	No data available				
cineole	No data available				
4-(2,6,6-trimethylcycloh ex-1-ene-1-yl)-but-3-en e-2-one	No data available				
allyl heptanoate	No data available				
d-limonene	683.1		Method not given	High potential for bioaccumulation	
geraniol	No data available				
citronellol	No data available				
Dimethyl anthranilate	No data available				
nerol	No data available				
1-(1,2,3,4,5,6,7,8-octah ydro-2,3,8,8-tetramethyl -2-naphthyl)ethan-1-on e	No data available				
3-p-cumenyl-2-methylpr opionaldehyde	No data available				
citronellal	No data available				
pin-2(10)-ene	No data available				
allyl 3-cyclohexylpropionate	No data available				
d-p-mentha-1(6),8-dien -2-one	No data available				
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol	No data available				
citral	No data available				
alpha-methyl-1,3-benzo dioxole-5-propionaldeh yde	No data available				
p-mentha-1,4-diene	No data available				
isoeugenol	No data available				

## 12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
linalyl acetate	No data available				
geranyl acetate	No data available				
decanal	No data available				
dimethyl benzyl carbiny butyrate	No data available				
benzyl acetate	No data available				
3a,4,5,6,7,7a-hexahydro-4,7-methanoinden-6-yl acetate	No data available				
2-tert-butylcyclohexyl acetate	No data available				
2,6-dimethyloct-7-en-2-ol	No data available				
linalool	No data available				

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p-mentha-1,4(8)-diene	No data available				
Isocyclocitral	No data available				
undecan-4-olide	No data available				
Ethyl hexanoate	No data available				
cineole	No data available				
4-(2,6,6-trimethylcyclohex-1-ene-1-yl)-but-3-ene-2-one	No data available				
allyl heptanoate	No data available				
d-limonene	No data available				High potential for mobility in soil
geraniol	No data available				
citronellol	No data available				
Dimethyl anthranilate	No data available				
nerol	No data available				
1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one	No data available				
3-p-cumenyl-2-methylpropionaldehyde	No data available				
citronellal	No data available				
pin-2(10)-ene	No data available				
allyl 3-cyclohexylpropionate	No data available				
d-p-mentha-1(6),8-dien-2-one	No data available				
2,6-Octadienal, 3,7-dimethyl-, reaction products with ethyl alcohol	No data available				
citral	No data available				
alpha-methyl-1,3-benzodioxole-5-propionaldehyde	No data available				
p-mentha-1,4-diene	No data available				
isoeugenol	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 03 05\* - organic wastes 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:** 3077

**14.2 UN proper shipping name:**

Environmentally hazardous substance, solid, n.o.s. ( d-limonene , 2-tert-butylcyclohexyl acetate )

**14.3 Transport hazard class(es):**

**Transport hazard class (and subsidiary risks):** 9

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

**Environmentally hazardous:** Yes

**Marine pollutant:** Yes

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**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:** M7

**Tunnel restriction code:** (-)

**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

**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:** E2 - Hazardous to the Aquatic Environment in Category Chronic 2

### 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:** MS1006152

**Version:** 01.0

**Revision:** 2024-01-29

### 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
- H226 - Flammable liquid and vapour.
- H301 - Toxic if swallowed.
- H302 - Harmful if swallowed.
- H304 - May be fatal if swallowed and enters airways.
- H311 - Toxic in contact with skin.
- H312 - Harmful in contact with skin.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.

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- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H332 - Harmful if inhaled.
- H335 - May cause respiratory irritation.
- H361 - Suspected of damaging fertility or the unborn child.
- H400 - Very toxic to aquatic life.
- H402 - Harmful to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- H411 - Toxic to aquatic life with long lasting effects.
- H412 - Harmful to aquatic life with long lasting effects.

**End of Safety Data Sheet**