

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## WHITE CITRUS & LIME ALL NATURAL

Version 2.0      Revision Date: 14.01.2023      SDS Number: 620373      Date of last issue: 17.04.2022  
Date of first issue: 17.04.2022

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

#### 1.1 Product identifier

Trade name : WHITE CITRUS & LIME ALL NATURAL

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

Use of the Sub-stance/Mixture : Fragrance mix

#### 1.3 Details of the supplier of the safety data sheet

Candle Supply Pty Ltd  
Unit 3 8-9 Lagana Place  
Wetherill Park, NSW 2164  
ABN: 70612899626

Phone Number: 02 8741 4000  
e-mail: customerservice@candlesupply.com.au

#### 1.4 Emergency telephone number

13 11 26

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1      H317: May cause an allergic skin reaction.

Long-term (chronic) aquatic hazard, Category 2      H411: Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



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Signal word	:	<b>Warning</b>
Hazard statements	:	<b>H317 May cause an allergic skin reaction.</b> <b>H411 Toxic to aquatic life with long lasting effects.</b>
Precautionary statements	:	<b>Prevention:</b> <b>P261 Avoid breathing mist or vapours.</b> <b>P272 Contaminated work clothing should not be allowed out of the workplace.</b> <b>P273 Avoid release to the environment.</b> <b>P280 Wear protective gloves.</b> <b>Response:</b> <b>P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.</b> <b>P391 Collect spillage.</b>

### Hazardous components which must be listed on the label:

(R)-p-mentha-1,8-diene; d-limonene  
citral  
p-Mentha-1,4(8)-diene  
Pin-2(10)-ene  
l-carvone; (5R)-2-methyl-5- (prop-1-en-2-yl)cyclohex-2-en- 1-one  
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool  
Geraniol  
Pin-2(3)-ene  
Cineole  
isoeugenol

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
(R)-p-mentha-1,8-diene; d-	5989-27-5	<b>Flam. Liq. 3; H226</b>	<b>&gt;= 2,5 - &lt; 10</b>

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limonene	227-813-5	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 3; H412	
	601-029-00-7		
citral	5392-40-5	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 1 - < 10
	226-394-6		
	605-019-00-3		
[1S-(1 $\alpha$ ,4 $\alpha$ ,5 $\beta$ ,7 $\beta$ ,8 $\alpha$ R*)]-1,1a,4,4a,5,6,7,8-octahydro-2,4a,8,8-tetramethylcyclopro-pa[d]naphthalene	470-40-6 207-426-8	Aquatic Acute 1; H400	>= 1 - < 2,5
[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	469-61-4 207-418-4	Skin Irrit. 2; H315 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,25 - < 1
p-Mentha-1,4-diene	99-85-4	Flam. Liq. 3; H226 Repr. 2; H361 Aquatic Chronic 2; H411	>= 0,25 - < 1
	202-794-6		
p-Mentha-1,4(8)-diene	586-62-9	Skin Sens. 1; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,25 - < 1
	209-578-0		
Pin-2(10)-ene	127-91-3	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,25 - < 1
	204-872-5		
l-carvone; (5R)-2-methyl-5-(prop-1-en-2-yl)cyclohex-2-en-1-one	6485-40-1 99-49-0	Acute Tox. 4; H302 Skin Sens. 1B; H317	>= 0,1 - < 1

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	229-352-5 606-148-00-8		
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool	78-70-6 201-134-4 603-235-00-2	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	$\geq 0,1 - < 1$
[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-Octahydro-3,8,8-trimethyl-6-methylene-1H-3a,7-methanoazulene	546-28-1 208-898-8	Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	$\geq 0,1 - < 0,25$
Geraniol	106-24-1 203-377-1	Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1B; H317	$\geq 0,1 - < 1$
Pin-2(3)-ene	80-56-8 201-291-9	Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	$\geq 0,1 - < 0,25$
Cineole	470-82-6 207-431-5	Flam. Liq. 3; H226 Skin Sens. 1B; H317	$\geq 0,1 - < 1$
isoeugenol	97-54-1 202-590-7 604-094-00-X	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1A; H317 STOT SE 3; H335	$\geq 0,01 - < 0,1$

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		(Respiratory system)	
		specific concentration limit	
		Skin Sens. 1A; H317	
		>= 0,01 %	

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
- If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.  
Keep patient warm and at rest.  
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Rinse mouth with water.  
Keep respiratory tract clear.  
Do NOT induce vomiting.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

- Risks : First aider needs to protect himself.  
  
May cause an allergic skin reaction.

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

- Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.  
There is no specific antidote available.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

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

Hazardous combustion products : No hazardous combustion products are known

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : In the event of fire and/or explosion do not breathe fumes. Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use a water spray to cool fully closed containers.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas.

#### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of aerosol.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Hygiene measures : When using do not eat or drink. Wash hands before breaks and at the end of workday.

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

- Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.
- Advice on common storage : No special restrictions on storage with other products.
- Storage class (TRGS 510) : 10, Combustible liquids
- Further information on storage stability : No decomposition if stored and applied as directed.

#### 7.3 Specific end use(s)

- Specific use(s) : Fragrance mix

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
(R)-p-mentha-1,8-diene; d-limonene	5989-27-5	MAK	5 ppm 28 mg/m <sup>3</sup>	DFG
		AGW	5 ppm 28 mg/m <sup>3</sup>	DE TRGS 900

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### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

Hand protection

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use. Wear chemicals-resistant gloves, e.g. safety gloves of nitril (thickness 0.4mm) or of butyl rubber (thickness 0.7mm).

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Not required; except in case of aerosol formation.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : clear liquid

Colour : pale yellow to yellow

Odour : characteristic

Odour Threshold : No data available

Melting point/freezing point :  
not determined

Boiling point/boiling range : not determined

Upper explosion limit / Upper flammability limit : Vapours may form explosive mixtures with air.

Lower explosion limit / Lower flammability limit : Vapours may form explosive mixtures with air.

Flash point : 80 °C

Decomposition temperature : not determined

pH : Not applicable

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Viscosity  
Viscosity, dynamic : not determined  
Viscosity, kinematic : not determined  
Solubility(ies)  
Water solubility : immiscible  
Partition coefficient: n-octanol/water : Not applicable  
Vapour pressure : 1 kPa (50 °C)  
calculated  
Relative density : not determined  
0,9440 - 0,9540 (20 °C)  
relation to density of water at 4°C  
Bulk density : Not applicable  
Relative vapour density : not determined

### 9.2 Other information

Explosives : Due to its structural properties, the product is not classified as explosive  
Oxidizing properties : The substance or mixture is not classified as oxidizing.  
Self-ignition : The substance or mixture is not classified as self heating.  
Evaporation rate : Not applicable  
Molecular weight : Not applicable

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.  
Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : No data available

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### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Not classified based on available information.

#### Components:

##### **(R)-p-mentha-1,8-diene; d-limonene:**

Acute oral toxicity : LD50 Oral (Rat, female): > 2.000 mg/kg  
Method: OECD Test Guideline 423  
GLP: yes

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg  
Remarks: Information given is based on data obtained from similar substances.

##### **citral:**

Acute oral toxicity : LD50 Oral (Rat, male and female): ca. 6.800 mg/kg  
GLP: no

Acute dermal toxicity : LD50 Dermal (Rabbit): 2.250 mg/kg  
GLP: no

##### **p-Mentha-1,4-diene:**

Acute oral toxicity : LD50 Oral (Rat, female): > 2.000 mg/kg  
Method: OECD 423  
GLP: yes

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

##### **p-Mentha-1,4(8)-diene:**

Acute oral toxicity : LD50 Oral (Rat): > 4.000 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg

##### **Pin-2(10)-ene:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

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Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

### **l-carvone; (5R)-2-methyl-5- (prop-1-en-2-yl)cyclohex-2-en- 1-one:**

Acute oral toxicity : LD50 Oral (Rat): 1.640 mg/kg

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

### **linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:**

Acute oral toxicity : LD50 (Rat, male and female): 2.790 mg/kg  
Method: OECD Test Guideline 401  
GLP: no  
Remarks: Weight of Evidence

Acute dermal toxicity : LD50 (Rabbit): 5.610 mg/kg  
Method: OECD Test Guideline 402  
GLP: no

### **Geraniol:**

Acute oral toxicity : LD50 Oral (Rat, male and female): 3.600 mg/kg  
GLP: No information available.

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg  
GLP: no

### **Pin-2(3)-ene:**

Acute oral toxicity : LD50 Oral: 500 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

### **Cineole:**

Acute oral toxicity : LD50 Oral (Rat, male and female): 4.500 mg/kg  
Method: OECD Test Guideline 401  
GLP: No information available.  
Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

### **isoeugenol:**

Acute oral toxicity : LD50 (Rat): 1.560 mg/kg

### **Skin corrosion/irritation**

Not classified based on available information.

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### **Components:**

#### **(R)-p-mentha-1,8-diene; d-limonene:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : Skin irritation  
GLP : yes  
Concentration : 100 %

#### **p-Mentha-1,4-diene:**

Species : reconstructed human epidermis (RhE)  
Exposure time : 1 h  
Method : OECD Test Guideline 439  
Result : No skin irritation  
GLP : yes  
Concentration : 100 %

#### **p-Mentha-1,4(8)-diene:**

Species : Rabbit  
Exposure time : 4 h  
Method : Directive 67/548/EEC, Annex V, B.4.  
Result : Mild skin irritation  
Dose : 0,5 ml  
Concentration : 100 %

Species : Humans  
Exposure time : 48 h  
Method : Closed patch test  
Result : No skin irritation  
Concentration : 20 %  
solvents : Petrolatum

#### **Pin-2(10)-ene:**

Species : Rabbit  
Exposure time : 24 h  
Result : Moderate irritation of skin

Species : Humans  
Exposure time : 48 h  
Method : Closed patch test  
Result : No skin irritation  
Concentration : 12 %  
solvents : Petrolatum

#### **l-carvone; (5R)-2-methyl-5- (prop-1-en-2-yl)cyclohex-2-en- 1-one:**

Species : Humans  
Result : No skin irritation  
Concentration : 8 %

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### **linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : Skin irritation  
GLP : yes  
Concentration : 100 %

### **Geraniol:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : Skin irritation  
GLP : yes  
Concentration : 100 %

### **Pin-2(3)-ene:**

Species : reconstructed human epidermis (RhE)  
Exposure time : 15 min  
Result : Skin irritation  
GLP : yes  
Concentration : 100 %

### **Cineole:**

Species : reconstructed human epidermis (RhE)  
Exposure time : 15 min  
Method : OECD 439  
Result : No skin irritation  
GLP : yes  
Concentration : 100 %

### **Serious eye damage/eye irritation**

Not classified based on available information.

### **Components:**

#### **(R)-p-mentha-1,8-diene; d-limonene:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Mild eye irritation  
GLP : yes  
Concentration : 100 %

#### **citral:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Eye irritation  
GLP : no  
Concentration : 100 %

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### **p-Mentha-1,4-diene:**

Species : Bovine cornea  
Method : OECD 437  
Result : Mild eye irritation  
GLP : yes  
Concentration : 100 %

### **p-Mentha-1,4(8)-diene:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Mild eye irritation  
Concentration : 100 %

### **l-carvone; (5R)-2-methyl-5- (prop-1-en-2-yl)cyclohex-2-en- 1-one:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation  
GLP : yes  
Dose : 0,1ML  
Concentration : 100 %

### **linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irritating to eyes.  
GLP : no  
Concentration : 100 %  
Remarks : Weight of Evidence

### **Geraniol:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Corrosive  
GLP : yes  
Concentration : 100 %

### **Cineole:**

Species : Bovine cornea  
Method : OECD 437  
Result : Mild eye irritation  
GLP : yes  
Dose : 0,75 ML  
Concentration : 100 %

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Mild eye irritation  
GLP : yes  
Concentration : 100 %  
Remarks : Information given is based on data obtained from similar sub-

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stances.

### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### Respiratory sensitisation

Not classified based on available information.

#### Components:

##### **(R)-p-mentha-1,8-diene; d-limonene:**

Test Type : Local Lymph Node Assay  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : Sensitizing effect.  
GLP : yes  
Concentration : 22 %  
solvents : Diethylphthalate/Ethyl alcohol (3:1)

##### **citral:**

Test Type : Local Lymph Node Assay  
Species : Mouse  
Method : OECD 429  
Result : Sensitizing effect.  
Concentration : 6,3 %  
solvents : Diethylphthalate/Ethyl alcohol (3:1)

Test Type : Maximisation Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Sensitizing effect.  
GLP : no  
Concentration : 6,3 %  
solvents : Diethylphthalate/Ethyl alcohol (3:1)

##### **p-Mentha-1,4-diene:**

Species : Humans  
Result : No sensitizing effect.  
Concentration : 5 %

##### **Pin-2(10)-ene:**

Test Type : Maximisation Test  
Species : Humans  
Result : No sensitizing effect.  
Concentration : 12 %  
solvents : Petrolatum

##### **l-carvone; (5R)-2-methyl-5-(prop-1-en-2-yl)cyclohex-2-en- 1-one:**

Test Type : Local Lymph Node Assay

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Species : Mouse  
Method : OECD 429  
Result : Sensitizing effect.  
GLP : yes  
Concentration : 10,7 %  
solvents : Diethylphthalate/Ethyl alcohol (3:1)

### **linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:**

Test Type : Local Lymph Node Assay  
Species : Mouse  
Method : OECD 429  
Result : Sensitizing effect.  
GLP : yes  
Concentration : 35,5 %  
solvents : N,N-Dimethylformamide

### **Geraniol:**

Test Type : Local Lymph Node Assay  
Species : Mouse  
Method : OECD 429  
Result : Sensitizing effect.  
GLP : No information available.  
Concentration : 11,4 %  
solvents : Diethylphthalate/Ethyl alcohol (3:1)

### **Cineole:**

Test Type : Local Lymph Node Assay  
Species : Mouse  
Method : OECD 429  
Result : Sensitizing effect.  
GLP : yes  
Concentration : 65,9 %  
solvents : Acetone/Olive oil (4:1)

### **Germ cell mutagenicity**

Not classified based on available information.

### **Components:**

#### **(R)-p-mentha-1,8-diene; d-limonene:**

Genotoxicity in vitro : Test Type: In vitro Mammalian Cell Gene Mutation Test  
Test system: mouse lymphoma L5178Y cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

Test Type: sister chromatid exchange assay  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 479  
Result: negative



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GLP: no

Test Type: In vitro Mammalian Chromosome Aberration Test  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: no

Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Genotoxicity in vivo : Test Type: comet assay  
Species: Rat (male)  
Application Route: Oral  
Result: negative  
GLP: no

### **citral:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD 471  
Result: negative

Test Type: In vitro Mammalian Cell Gene Mutation Test  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD 476  
Result: negative  
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD 473  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test  
Species: Mouse (male and female)  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative

### **p-Mentha-1,4-diene:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD 471  
Result: negative  
GLP: yes

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Test Type: In vitro Mammalian Cell Gene Mutation Test  
Test system: mouse lymphoma L5178Y cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 490  
Result: negative  
GLP: yes

Test Type: In Vitro Mammalian Cell Micronucleus Test  
Test system: mouse lymphoma L5178Y cells  
Metabolic activation: with and without metabolic activation  
Method: OECD 487  
Result: negative  
GLP: yes

### **p-Mentha-1,4(8)-diene:**

Genotoxicity in vitro : Test Type: Ames test  
Method: OECD 471  
Result: negative

### **l-carvone; (5R)-2-methyl-5- (prop-1-en-2-yl)cyclohex-2-en- 1-one:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD 471  
Result: negative  
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test  
Test system: Human lymphocytes  
Metabolic activation: with and without metabolic activation  
Method: OECD 473  
Result: negative  
GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test  
Test system: mouse lymphoma L5178Y cells  
Metabolic activation: with and without metabolic activation  
Method: OECD 476  
Result: negative  
GLP: yes

### **linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD 471  
Result: negative  
GLP: yes

Test Type: In vitro Mammalian Chromosome Aberration Test  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD 473  
Result: negative

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GLP: yes

Test Type: In vitro Mammalian Cell Gene Mutation Test  
Test system: mouse lymphoma L5178Y cells  
Metabolic activation: with and without metabolic activation  
Method: OECD 476  
Result: negative  
GLP: yes

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test  
Species: Mouse (male and female)  
Cell type: Bone marrow  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

### Geraniol:

Genotoxicity in vitro : Test Type: In vitro Mammalian Cell Gene Mutation Test  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD 476  
Result: negative  
GLP: yes

Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Result: negative  
GLP: No information available.

Test Type: In vitro Mammalian Chromosome Aberration Test  
Result: equivocal  
GLP: No information available.

Test Type: sister chromatid exchange assay  
Test system: Chinese hamster ovary cells  
Result: negative  
GLP: No information available.

Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test  
Species: Mouse (male)  
Cell type: Bone marrow  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

### Pin-2(3)-ene:

Genotoxicity in vitro : Test Type: Ames test  
Result: negative

### Cineole:

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- Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD 471  
Result: negative  
GLP: No information available.
- Test Type: In vitro Mammalian Chromosome Aberration Test  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Result: negative  
GLP: No information available.
- Genotoxicity in vivo : Test Type: Mammalian Erythrocyte Micronucleus Test  
Species: Rat (male and female)  
Application Route: Oral  
Method: OECD 474  
Result: negative  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.

### **Carcinogenicity**

Not classified based on available information.

### **Reproductive toxicity**

Not classified based on available information.

### **STOT - single exposure**

Not classified based on available information.

### **STOT - repeated exposure**

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

## 11.2 Information on other hazards

### **Endocrine disrupting properties**

#### **Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### **Components:**

**(R)-p-mentha-1,8-diene; d-limonene:**

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Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0,720 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: flow-through test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,307 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Raphidocelis subcapitata (freshwater green alga)): 0,32 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes

EC10 (Raphidocelis subcapitata (freshwater green alga)): 0,174 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (Activated sludge): 209 mg/l  
Exposure time: 3 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 209  
GLP: yes

EC10 (Activated sludge): 18 mg/l  
Exposure time: 3 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 209  
GLP: yes

Toxicity to fish (Chronic toxicity) : EC10: > 0,37 - < 0,67 mg/l  
Exposure time: 8 d  
Species: Pimephales promelas (fathead minnow)  
Test Type: semi-static test

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Analytical monitoring: yes  
Method: OECD 212  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: 0,153 mg/l  
End point: Reproduction rate  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 211  
GLP: yes

### **citral:**

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 6,78 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: static test  
Method: DIN 38412  
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 6,8 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Method: Directive 67/548/EEC, Annex V, C.2.  
GLP: no

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 103,8 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: no  
Method: DIN 38412 (part 9)  
GLP: no

EC10 (Desmodesmus subspicatus (green algae)): 3 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: no  
Method: DIN 38412 (part 9)  
GLP: no

### **[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene:**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 0,044 mg/l  
Exposure time: 48 h

M-Factor (Acute aquatic toxicity) : 10

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M-Factor (Chronic aquatic  
toxicity) : 10

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### **p-Mentha-1,4-diene:**

- Toxicity to fish : EC50 (Danio rerio (zebra fish)): 2,792 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 10,189 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes
- Toxicity to algae/aquatic plants : EC50 (Scenedesmus capricornutum (fresh water algae)): > 10,82 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes
- Toxicity to microorganisms : EC50 (Activated sludge): > 1.000 mg/l  
Exposure time: 3 h  
Analytical monitoring: yes  
Method: OECD 209  
GLP: yes

### **l-carvone; (5R)-2-methyl-5- (prop-1-en-2-yl)cyclohex-2-en- 1-one:**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 6,1 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 38 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 19 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes



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NOEC (*Pseudokirchneriella subcapitata* (green algae)): 4,3  
mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test

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Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes

### **linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 27,8 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 59 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 156,7 mg/l  
End point: Growth rate  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: no  
Method: DIN 38412 (part 9)  
GLP: no

EC10 (Desmodesmus subspicatus (green algae)): 54,3 mg/l  
End point: Growth rate  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: no  
Method: DIN 38412 (part 9)  
GLP: no

Toxicity to microorganisms : EC50 (Activated sludge): > 100 mg/l  
End point: Respiration inhibition  
Exposure time: 3 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD 209  
GLP: yes

### **[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-Octahydro-3,8,8-trimethyl-6-methylene-1H-3a,7-methanoazulene:**

Toxicity to fish : LC50 (Fish): 0,042 mg/l  
Exposure time: 96 h

M-Factor (Acute aquatic toxicity) : 10

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M-Factor (Chronic aquatic) : 10

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toxicity)

### Geraniol:

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): ca. 22 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 10,8 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 13,1 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.
- EC10 (Desmodesmus subspicatus (green algae)): 3,77 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: Information given is based on data obtained from similar substances.
- Toxicity to microorganisms : EC50 (Activated sludge): 144 mg/l  
Exposure time: 96 h  
Method: ISO 8192  
GLP: yes

### Pin-2(3)-ene:

- M-Factor (Acute aquatic toxicity) : 1
- M-Factor (Chronic aquatic toxicity) : 1

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### **Cineole:**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 57 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 74 mg/l  
End point: Growth rate  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes
- Toxicity to microorganisms : EC50 (Activated sludge): > 100 mg/l  
End point: Growth inhibition  
Exposure time: 3 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD 209  
GLP: yes

### **isoeugenol:**

- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 7,5 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes

## 12.2 Persistence and degradability

### **Components:**

#### **(R)-p-mentha-1,8-diene; d-limonene:**

- Biodegradability : Test Type: CO2 Evolution Test  
Result: Readily biodegradable.  
Biodegradation: 71 %  
Exposure time: 28 d  
Method: OECD 301B

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GLP: yes

### **citral:**

Biodegradability : Test Type: Manometric respiration test  
Result: Readily biodegradable.  
Biodegradation: > 90 %  
Exposure time: 28 d  
Method: OECD 301F  
GLP: yes

### **[1AS-(1 $\alpha$ ,4 $\beta$ ,8 $\alpha$ R\*)]-1,1a,4,4a,5,6,7,8-octahydro-2,4a,8,8-tetramethylcyclopropa[d]naphthalene:**

Biodegradability : Test Type: Manometric respiration test  
Result: Not readily biodegradable.  
Biodegradation: 56 %  
Exposure time: 60 d  
Method: OECD 301F  
GLP: yes

### **[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene:**

Biodegradability : Test Type: Manometric respiration test  
Result: Readily biodegradable.  
Biodegradation: 78 %  
Exposure time: 28 d  
Method: OECD 301F  
GLP: yes

### **p-Mentha-1,4-diene:**

Biodegradability : Test Type: MITI test, (BOD/COD):  
Result: Readily biodegradable.  
Biodegradation: 94 %  
Exposure time: 28 d  
Method: OECD 301C

### **p-Mentha-1,4(8)-diene:**

Biodegradability : Test Type: Manometric Respirometry Test  
Result: Readily biodegradable.  
Biodegradation: 78 %  
Exposure time: 28 d  
Method: OECD 301F  
GLP: yes

### **Pin-2(10)-ene:**

Biodegradability : Test Type: Manometric respiration test  
Result: Readily biodegradable.  
Biodegradation: 81 %  
Exposure time: 28 d  
Method: OECD 301F  
GLP: yes

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### **l-carvone; (5R)-2-methyl-5- (prop-1-en-2-yl)cyclohex-2-en- 1-one:**

Biodegradability : Test Type: Manometric respiration test  
Result: Readily biodegradable.  
Biodegradation: 90 %  
Exposure time: 28 d  
Method: OECD 301F

### **linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:**

Biodegradability : Test Type: Closed Bottle test  
Result: Readily biodegradable.  
Biodegradation: 64,2 %  
Exposure time: 28 d  
Method: OECD 301D  
GLP: yes

### **[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-Octahydro-3,8,8-trimethyl-6-methylene-1H-3a,7-methanoazulene:**

Biodegradability : Result: Readily biodegradable.  
Remarks: Information given is based on data obtained from similar substances.

### **Geraniol:**

Biodegradability : Test Type: Closed bottle test, OECD 301-D, (BOD[28]/COD):  
Result: Readily biodegradable.  
Biodegradation: 82 %  
Exposure time: 28 d  
Method: OECD 301D  
GLP: yes

Test Type: Manometric Respirometry Test  
Result: Readily biodegradable.  
Biodegradation: 86 %  
Exposure time: 28 d  
Method: OECD 301  
GLP: yes

### **Pin-2(3)-ene:**

Biodegradability : Test Type: Closed Bottle test  
Result: Readily biodegradable.  
Biodegradation: 68 %  
Exposure time: 28 d  
Method: OECD 301D  
GLP: yes

### **Cineole:**

Biodegradability : Test Type: Manometric Respirometry Test  
Result: Readily biodegradable.  
Biodegradation: 82 %  
Exposure time: 28 d

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Method: OECD 301F  
GLP: yes

### isoeugenol:

Biodegradability : Test Type: Manometric respiration test  
Result: Readily biodegradable.  
Biodegradation: 79 %  
Exposure time: 28 d  
Method: OECD 301F  
GLP: yes

### 12.3 Bioaccumulative potential

#### Components:

##### **(R)-p-mentha-1,8-diene; d-limonene:**

Partition coefficient: n-octanol/water : log Pow: 4,38 (37 °C)  
pH: 7,2  
Method: OECD Test Guideline 117

##### **citral:**

Partition coefficient: n-octanol/water : log Pow: 2,76 (25 °C)  
Method: OECD Test Guideline 107  
GLP: no

##### **[3R-(3 $\alpha$ ,3 $\beta$ ,7 $\beta$ ,8 $\alpha$ )]-2,3,4,7,8,8a-Hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene:**

Partition coefficient: n-octanol/water : log Pow: 6,09  
Remarks: calculated

##### **p-Mentha-1,4-diene:**

Partition coefficient: n-octanol/water : log Pow: 5,4 (25 °C)  
Method: OECD Test Guideline 117  
GLP: no

##### **p-Mentha-1,4(8)-diene:**

Partition coefficient: n-octanol/water : log Pow: 4,88  
Remarks: calculated

##### **Pin-2(10)-ene:**

Partition coefficient: n-octanol/water : log Pow: 5,4 (35 °C)

##### **l-carvone; (5R)-2-methyl-5-(prop-1-en-2-yl)cyclohex-2-en- 1-one:**

Partition coefficient: n-octanol/water : log Pow: 2,73 (20 °C)  
GLP: yes

##### **linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool:**



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Partition coefficient: n- : log Pow: 2,84 (25 °C)

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octanol/water      Method: OECD Test Guideline 107  
GLP: no

### Geraniol:

Partition coefficient: n-octanol/water      : log Pow: 2,6 (25 °C)  
Method: OECD 117  
GLP: yes

### Pin-2(3)-ene:

Partition coefficient: n-octanol/water      : log Pow: 5,7 (35 °C)

### Cineole:

Partition coefficient: n-octanol/water      : log Pow: 3,4  
Method: OECD 117  
GLP: yes

### isoeugenol:

Partition coefficient: n-octanol/water      : log Pow: 2,55

## 12.4 Mobility in soil

### Components:

#### Cineole:

Distribution among environmental compartments      : Adsorption/Soil  
Medium: Sludge  
log Koc: 2,33  
Method: OECD 121

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment      : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Endocrine disrupting properties

### Product:

Assessment      : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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### 12.7 Other adverse effects

**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life with long lasting effects.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.

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## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR : UN 3082  
RID : UN 3082  
IMDG : UN 3082  
IATA : UN 3082

### 14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(ALPHA-CEDRENE, BETA-CEDRENE)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(ALPHA-CEDRENE, BETA-CEDRENE)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(ALPHA-CEDRENE, BETA-CEDRENE)

IATA : Environmentally hazardous substance, liquid, n.o.s.  
(ALPHA-CEDRENE, BETA-CEDRENE)

### 14.3 Transport hazard class(es)

ADR : 9  
RID : 9

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**IMDG** : 9

**IATA** : 9

### 14.4 Packing group

#### ADR

Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (-)

#### RID

Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

#### IMDG

Packing group : III  
Labels : 9  
EmS Code : F-A, S-F

#### IATA (Cargo)

Packing instruction (cargo aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous

#### IATA (Passenger)

Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous

### 14.5 Environmental hazards

#### ADR

Environmentally hazardous : yes

#### RID

Environmentally hazardous : yes

#### IMDG

Marine pollutant : yes

#### IATA (Cargo)

Environmentally hazardous : yes

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 3

Juniper, *Juniperus mexicana*, ext.  
(Number on list 3)  
*Cymbopogon flexuosus*, ext.  
(Number on list 3)  
Lemon, ext. (Number on list 40, 3)  
Spearmint, ext. (Number on list 3)  
Decanal (Number on list 3)  
Octanal (Number on list 40, 3)  
citral (Number on list 3)  
Lime (*Citrus aurantifolia*), ext.  
(Number on list 40, 3)  
Orange, sweet, ext. (Number on list 40, 3)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E2	ENVIRONMENTAL HAZARDS	Quantity 1	Quantity 2
		200 t	500 t

Water hazard class (Germany) : WGK 3 highly hazardous to water  
Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : Total dust:  
Not applicable  
Inorganic substances in powdered form:  
Not applicable  
Inorganic substances in vapour or gaseous form:  
Not applicable  
Organic Substances:  
portion Class 1: 0,65 %  
  
Carcinogenic substances:  
Not applicable  
Mutagenic:

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Not applicable  
Toxic to reproduction:  
Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 8,57 %

### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

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## SECTION 16: Other information

### Full text of H-Statements

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

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Repr.	: Reproductive toxicity
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT SE	: Specific target organ toxicity - single exposure
DE TRGS 900	: Germany. TRGS 900 - Occupational exposure limit values.
DFG	: Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).
DE TRGS 900 / AGW	: Exposure limit(s):
DFG / MAK	: Maximum allowable concentration:

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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Skin Sens. 1                      H317  
Aquatic Chronic 2                H411

#### Classification procedure:

Calculation method  
Calculation method

*The data contained in this Safety Data Sheet is accurate to the best knowledge of Candle Supply Pty Ltd, applies to the product as supplied Candle Supply Pty Ltd, and does not relate to use in combination with any other material or in any process. Data and information is furnished without warranty expressed or implied, nor does Candle Supply Pty Ltd, assume responsibility for use or reliance upon this data.*

*This SDS is current to the date listed above. However, the GHS classifications may change due to hazard communication updates by the overseeing governing body. For the most current SDS information please contact customerservice@candlesupply.com.au*