

Trade name: Cajuputi aetheroleum

Substance number: 013700

Version: 9 / CH

Date revised: 15.12.2022

Replaces Version: 8 / CH

Print date: 15.12.22

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

### **1.1. Product identifier**

Cajuputi aetheroleum

Item No. 01370000

#### **Substance / product identification**

INCI Melaleuca leucadendron

CAS-No. 8008-98-8

REACH Registry No. 01-2120119951-57

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

#### **Use of the substance/preparation**

Flavour/Fragrance

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

#### **Address/Manufacturer**

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible  
for this SDS

### **1.4. Emergency telephone number**

Switzerland :145 / Abroad +41 (0)44 251 51 51

## **SECTION 2: Hazards identification \*\*\***

### **2.1. Classification of the substance or mixture**

#### **Classification (Regulation (EC) No. 1272/2008)**

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 3 H226

Skin Irrit. 2 H315

Eye Irrit. 2 H319

Skin Sens. 1A H317

Asp. Tox. 1 H304

Aquatic Chronic 2 H411

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

### **2.2. Label elements**

#### **Labelling according to regulation (EC) No 1272/2008**

#### **Hazard pictograms**



#### **Signal word**

Danger

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**Hazard statements \*\*\***

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H304	May be fatal if swallowed and enters airways.
H411	Toxic to aquatic life with long lasting effects.

**Precautionary statements \*\*\***

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331	Do NOT induce vomiting.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

**Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)**

contains ***	1,8-Cineole; Geraniol; 7-Methyl-3-methylenocta-1,6-dien; 3,7-Dimethyl-1,6-octadien-3-ol; (S)-p-mentha-1,8-diene; alpha-Pinene, not specified; beta-Pinene, not specified; isoeugenol; 3-Carene, not specified; citronellol; Eugenol; Farnesol; (Z)-3,7-dimethylocta-2,6-dienal; p-mentha-1,4(8)-diene; beta-Caryophyllen; p-Isopropyl toluene
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**SECTION 3: Composition/information on ingredients \*\*\*****Hazardous ingredients \*\*\*****1,8-Cineole**

CAS No.	470-82-6
EINECS no.	207-431-5
Concentration	>= 50 %
Classification (Regulation (EC) No. 1272/2008)	Flam. Liq. 3 H226 Skin Sens. 1B H317

**p-menth-1-en-8-ol**

CAS No.	10482-56-1
EINECS no.	233-986-8
Concentration	>= 10 < 25 %
Classification (Regulation (EC) No. 1272/2008)	Skin Irrit. 2 H315 Eye Irrit. 2 H319

**(S)-p-mentha-1,8-diene**

CAS No.	5989-27-5
EINECS no.	227-813-5
Concentration	>= 10 < 25 %
Classification (Regulation (EC) No. 1272/2008)	Flam. Liq. 3 H226 Asp. Tox. 1 H304 Skin Irrit. 2 H315 Skin Sens. 1 H317 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

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## Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Acute 1	M = 1
Aquatic Chronic 1	M = 1

CLP Regulation (EC) No 1272/2008, Annex VI, Note C

**3,7-Dimethyl-1,6-octadien-3-ol**

CAS No. 78-70-6

EINECS no. 201-134-4

Concentration  $\geq$  1 < 10 %

Classification (Regulation (EC) No. 1272/2008)

Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1B	H317

**p-menth-1-en-4-ol**

CAS No. 562-74-3

EINECS no. 209-235-5

Concentration  $\geq$  1 < 10 %

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4	H302
Skin Irrit. 2	H315
Eye Irrit. 2	H319

**p-mentha-1,4(8)-diene**

CAS No. 586-62-9

EINECS no. 209-578-0

Concentration  $\geq$  2.5 < 10 %

Classification (Regulation (EC) No. 1272/2008)

Asp. Tox. 1	
Flam. Liq. 3	
Aquatic Chronic 2	

**beta-Caryophyllen**

CAS No. 87-44-5

EINECS no. 201-746-1

Concentration  $\geq$  1 < 10 %

Classification (Regulation (EC) No. 1272/2008)

Asp. Tox. 1	H304
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**p-mentha-1,4-diene**

CAS No. 99-85-4

EINECS no. 202-794-6

Concentration  $\geq$  1 < 2.5 %

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 3	H226
Repr. 2	H361
Aquatic Chronic 2	H411

**7-Methyl-3-methylenocta-1,6-dien**

CAS No. 123-35-3

EINECS no. 204-622-5

Concentration  $\geq$  1 < 2.5 %

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 3	H226
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Asp. Tox. 1	H304
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Concentration limits (Regulation (EC) No. 1272/2008)  
M = 1

**alpha-Pinene, not specified**

CAS No.	80-56-8
EINECS no.	201-291-9
Concentration	>= 1 < 2.5 %
Classification (Regulation (EC) No. 1272/2008)	
Flam. Liq. 3	H226
Asp. Tox. 1	H304
Skin Irrit. 2	H315
Skin Sens. 1B	H317
Aquatic Acute 1	H400
Aquatic Chronic 1	H410
Acute Tox. 4	H302

Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Acute 1	M = 1
Aquatic Chronic 1	M = 1

**beta-Pinene, not specified**

CAS No.	127-91-3
EINECS no.	204-872-5
Concentration	>= 1 < 2.5 %
Classification (Regulation (EC) No. 1272/2008)	
Flam. Liq. 3	H226
Asp. Tox. 1	H304
Skin Sens. 1	H317
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Acute 1	M = 1
Aquatic Chronic 1	M = 1

**3-Carene, not specified**

CAS No.	13466-78-9
EINECS no.	236-719-3
Concentration	>= 1 < 2.5 %
Classification (Regulation (EC) No. 1272/2008)	
Flam. Liq. 3	H226
Asp. Tox. 1	H304
Skin Sens. 1	H317
Aquatic Chronic 2	H411

**p-Isopropyl toluene**

CAS No.	99-87-6
EINECS no.	202-796-7
Concentration	>= 1 < 2.5 %
Classification (Regulation (EC) No. 1272/2008)	
Flam. Liq. 3	H226

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Asp. Tox. 1	H304
Aquatic Chronic 2	H411

**Geraniol**

CAS No.	106-24-1			
EINECS no.	203-377-1			
Concentration	>= 0.1	<	1	%
Classification (Regulation (EC) No. 1272/2008)				
	Skin Irrit. 2		H315	
	Skin Sens. 1		H317	
	Eye Dam. 1		H318	

**(Z)-3,7-dimethylocta-2,6-dienal**

CAS No.	106-26-3			
EINECS no.	203-379-2			
Concentration	>= 0.1	<	1	%
Classification (Regulation (EC) No. 1272/2008)				
	Skin Irrit. 2		H315	
	Skin Sens. 1		H317	
	Eye Irrit. 2		H319	

**camphene**

CAS No.	79-92-5			
EINECS no.	201-234-8			
Concentration	>= 0.1	<	0.25	%
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Sol. 2		H228	
	Eye Irrit. 2		H319	
	Aquatic Chronic 1		H410	

**citronellol**

CAS No.	106-22-9			
EINECS no.	203-375-0			
Concentration	>= 0.1	<	1	%
Classification (Regulation (EC) No. 1272/2008)				
	Skin Irrit. 2		H315	
	Skin Sens. 1B		H317	
	Eye Irrit. 2		H319	

**Eugenol**

CAS No.	97-53-0			
EINECS no.	202-589-1			
Concentration	>= 0.1	<	1	%
Classification (Regulation (EC) No. 1272/2008)				
	Skin Sens. 1B		H317	
	Eye Irrit. 2		H319	

**Farnesol**

CAS No.	4602-84-0			
EINECS no.	225-004-1			
Concentration	>= 0.1	<	1	%
Classification (Regulation (EC) No. 1272/2008)				
	Skin Irrit. 2		H315	
	Skin Sens. 1		H317	
	Eye Irrit. 2		H319	

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**isoeugenol**

CAS No.	97-54-1				
EINECS no.	202-590-7				
Concentration	>= 0.1	<	1		%
Classification (Regulation (EC) No. 1272/2008)					
	Acute Tox. 4				H312
	Acute Tox. 4				H302
	Skin Irrit. 2				H315
	Eye Irrit. 2				H319
	Skin Sens. 1A				H317

**benzyl benzoate**

CAS No.	120-51-4				
EINECS no.	204-402-9				
Registration no.	01-2119976371-33-0006				
Concentration	>= 0.1	<	1		%
Classification (Regulation (EC) No. 1272/2008)					
	Acute Tox. 4				H302
	Aquatic Acute 1				H400
	Aquatic Chronic 2				H411

**SECTION 4: First aid measures****4.1. Description of first aid measures****After inhalation**

Remove the casualty into fresh air and keep him calm. In the event of symptoms take medical treatment.

**After skin contact**

Wash off immediately with soap and water and rinse well. Remove contaminated, soaked clothing immediately and dispose of safely.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

**After ingestion**

Rinse mouth thoroughly with water. Summon a doctor immediately. Do not induce vomiting.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, Dry chemical extinguisher, Foam

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

In the event of fire the following can be released: Carbon monoxide (CO)

**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

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

Do not inhale vapours. Avoid contact with eyes and skin. Refer to protective measures listed in Sections

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7 and 8.

**6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

**6.3. Methods and material for containment and cleaning up**

Take up with absorbent material (eg sand, kieselguhr, universal binder). When picked up, treat material as prescribed under Section 13 "Disposal". Ensure adequate ventilation.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Avoid contact with skin and eyes. Provide good ventilation of working area (local exhaust ventilation if necessary). Isolate from sources of heat, sparks and open flame.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Use glass containers. Use aluminium containers.

**Storage classes**

Storage class according to TRGS 510	3	Flammable liquid
Storage category (Switzerland)	3	Flammable liquid

**Further information on storage conditions**

Keep container dry in a cool, well-ventilated place. Protect from light. Keep container tightly closed.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limit values****(S)-p-mentha-1,8-diene**

List	SUVA			
Type	MAK			
Value	40	mg/m <sup>3</sup>	7	ppm(V)
Short term exposure limit	80	mg/m <sup>3</sup>	14	ppm(V)

Pregnancy group: S; Remarks: S SSc; LeberKT AN

**8.2. Exposure controls****Respiratory protection**

Provide good ventilation of working area (local exhaust ventilation if necessary).

**Hand protection**

Gloves

**Eye protection**

Face shield

**Body protection**

Protective clothing

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Form	Liquid
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<b>Colour</b>	colourless to yellowish
<b>Odour</b>	camphor-like
<b>Flash point</b>	
Value	50 °C
<b>Upper/lower flammability or explosive limits</b>	
Remarks	not determined
<b>Vapour pressure</b>	
Remarks	not determined
<b>Density</b>	
Value	0.905 to 0.920
Remarks	Relative Density according specification
<b>Solubility(ies)</b>	
Remarks	not determined
<b>Partition coefficient: n-octanol/water</b>	
Remarks	not determined
<b>Viscosity</b>	
Remarks	not determined

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

### **10.2. Chemical stability**

No decomposition if stored and applied as directed.

### **10.3. Possibility of hazardous reactions**

No hazardous reactions known.

### **10.4. Conditions to avoid**

Keep away from sources of heat and ignition.

### **10.5. Incompatible materials**

Reactions with strong acids and alkalies. Reactions with oxidising agents.

### **10.6. Hazardous decomposition products**

No data available.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Acute oral toxicity**

ATE	7'142.85	mg/kg
	71	
Method	calculated value (Regulation (EC) No. 1272/2008)	

#### **Acute oral toxicity (Components)**

##### **1,8-Cineole**

Species	rat	
LD50	2840	mg/kg
Source	RTECS	

##### **Geraniol**

Species	rat
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LD50	3600	mg/kg
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**7-Methyl-3-methylenocta-1,6-dien**

Species	Rats (male/female)	
LD50	> 11390	mg/kg

**7-Methyl-3-methylenocta-1,6-dien**

Species	Rats (male/female)	
LOAEL	250	mg/kg

**(S)-p-mentha-1,8-diene**

Species	rat	
LD50	4400	mg/kg

**(S)-p-mentha-1,8-diene**

Species	mouse	
NOAEL	1650	mg/kg

**(S)-p-mentha-1,8-diene**

Species	mouse	
LOAEL	3300	mg/kg

**citronellol**

Species	rat	
LD50	3450	mg/kg

**beta-Caryophyllen**

Species	rat	
LD	> 48	mg/kg
Source	Intratracheal (RTECS)	

**camphene**

Species	rabbit	
LD50	> 2500	mg/kg
Source	IUCLID	

**Eugenol**

Species	rat	
LD50	> 2000	mg/kg
Method	OECD 423	

**Eugenol**

Species	rat	
LDLo	800	mg/kg
Remarks	intraperitoneal	

**Farnesol**

Species	rat	
LD50	6000	mg/kg

**benzyl benzoate**

Species	rat	
LD50	1500	mg/kg

**Acute dermal toxicity (Components)****Geraniol**

Species	rabbit	
	> 5000	mg/kg

**7-Methyl-3-methylenocta-1,6-dien**

Species	rabbit	
LD50	> 5000	mg/kg

**(S)-p-mentha-1,8-diene**

Species	rabbit	
LD50	> 5000	mg/kg

**citronellol**

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Species	rabbit		
LD50	2650		mg/kg

**beta-Caryophyllen**

Remarks No data available.

**Eugenol**

Remarks No data available.

**Farnesol**

Remarks No data available.

**Acute inhalative toxicity (Components)****Geraniol**

Remarks No data available.

**7-Methyl-3-methylenocta-1,6-dien**

Remarks No data available.

**(S)-p-mentha-1,8-diene**

Remarks No data available.

**citronellol**

Remarks No data available.

**beta-Caryophyllen**

Remarks No data available.

**Eugenol**

Species	rat		
LD	>	2580	mg/m <sup>3</sup>
Duration of exposure	4		h

**Farnesol**

Remarks No data available.

**Skin corrosion/irritation**

Remarks Irritating to skin.

**Skin corrosion/irritation (Components)****Geraniol**

Species	guinea pig		
Duration of exposure	24		h
evaluation	irritant		
Source	RTECS		

**Geraniol**

Species	man		
Duration of exposure	24		h
evaluation	irritant		
Source	RTECS		

**Geraniol**

Species	rabbit		
Duration of exposure	24		h
evaluation	irritant		
Source	RTECS		

**7-Methyl-3-methylenocta-1,6-dien**

Species	rabbit		
Observation Period	24		h
evaluation	irritant		

**(S)-p-mentha-1,8-diene**

Remarks No data available.

**citronellol**

Species Human

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Duration of exposure evaluation 48 h  
 irritant  
 Remarks Irritating to skin.

**beta-Caryophyllen**

Species rabbit  
 Duration of exposure evaluation 24 h  
 non-irritant  
 Method Draize method  
 Source RTECS

**camphene**

evaluation non-irritant  
 Method OECD 404

**Eugenol**

Species guinea pig  
 Duration of exposure evaluation 24 h  
 strongly irritant  
 Source RTECS  
 Source 100 mg/ 24h

**Eugenol**

Species rabbit  
 Duration of exposure evaluation 24 h  
 strongly irritant  
 Method Draize method  
 Source RTECS  
 Source 100 mg/ 24 h

**Eugenol**

Species guinea pig  
 Duration of exposure evaluation 24 h  
 Moderately irritating  
 Method Draize method

**Farnesol**

Remarks No data available.

**benzyl benzoate**

Species rabbit  
 Duration of exposure evaluation 4 h  
 Moderately irritating  
 Method OECD 404

**Serious eye damage/irritation**

evaluation irritant - risk of serious damage to eyes

**Serious eye damage/irritation (Components)****Geraniol**

evaluation irritant - risk of serious damage to eyes  
 Remarks Irritates the eyes.

**7-Methyl-3-methylenocta-1,6-dien**

Species rabbit  
 evaluation irritant

**(S)-p-mentha-1,8-diene**

Species rabbit  
 evaluation non-irritant  
 Method OECD 405  
 Remarks No effect of irritation known

**citronellol**

Remarks No data available.

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**beta-Caryophyllen**

Remarks No data available.

**camphene**evaluation strongly irritant  
Method OECD 405**Eugenol**Species rabbit  
evaluation irritant**Farnesol**

Remarks No data available.

**benzyl benzoate**Species rabbit  
evaluation Moderately irritating  
Method OECD 405**Sensitization**

Remarks May cause sensitization by skin contact.

**Sensitization (Components)****7-Methyl-3-methylenocta-1,6-dien**Species mouse  
evaluation non-sensitizing  
Method OECD 429**Geraniol**

Remarks No data available.

**(S)-p-mentha-1,8-diene**Species mouse  
evaluation sensitizing  
Method OECD 429  
Remarks May cause sensitization by skin contact.**citronellol**Species mouse  
evaluation sensitizing  
Remarks May cause sensitization by skin contact.**beta-Caryophyllen**

Remarks No data available.

**camphene**evaluation non-sensitizing  
Source IUCLID**Eugenol**Species mouse  
Method OECD 429  
Remarks May cause allergic skin reactions.**Farnesol**

Remarks No data available.

**benzyl benzoate**Species mouse  
evaluation non-sensitizing  
Method OECD 429**Subacute, subchronic, chronic toxicity (Components)****Geraniol**

Remarks Not applicable

**7-Methyl-3-methylenocta-1,6-dien**

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Remarks Not applicable

**(S)-p-mentha-1,8-diene**

Remarks No data available.

**citronellol**

Remarks No data available.

**Farnesol**

Remarks No data available.

**Mutagenicity (Components)****Geraniol**

Remarks No data available.

**7-Methyl-3-methylenocta-1,6-dien**

Species Salmonella typhimurium  
 evaluation No mutagenicity in the Ames-test.  
 Method Ames test

**7-Methyl-3-methylenocta-1,6-dien**

Species mouse  
 evaluation No mutagenicity in the micronucleus test.  
 Remarks negative

**(S)-p-mentha-1,8-diene**

Species mouse  
 Remarks negative

**(S)-p-mentha-1,8-diene**

Species rat (male)  
 Remarks negative

**citronellol**

Remarks No data available.

**beta-Caryophyllen**

Remarks No data available.

**camphene**

evaluation No mutagenicity in the micronucleus test.

**camphene**

evaluation No mutagenicity in the Ames-test.  
 Source IUCLID

**Eugenol**

Species rat  
 evaluation DNA damage

**Eugenol**

Species mouse  
 evaluation May cause genetic defects.

**Eugenol**

Species hamster  
 evaluation May cause genetic defects.

**Farnesol**

Remarks No data available.

**Reproduction toxicity (Components)****7-Methyl-3-methylenocta-1,6-dien**

Species rat  
 evaluation Can cause malformations.

**Geraniol**

Remarks No data available.

**(S)-p-mentha-1,8-diene**

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Remarks No data available.

**citronellol**

Remarks No data available

**beta-Caryophyllen**

Remarks No data available.

**Eugenol**

Remarks No data available.

**Farnesol**

Remarks No data available.

**Carcinogenicity (Components)****7-Methyl-3-methylenocta-1,6-dien**

Remarks No data available.

**(S)-p-mentha-1,8-diene**

Species rat

Remarks May cause cancer.

Source RTECS

**(S)-p-mentha-1,8-diene**

Species mouse

Remarks Based on available data, the classification criteria are not met.

Source RTECS

**citronellol**

Remarks No data available.

**Eugenol**

Species mouse

evaluation Essential points have been found for a possible cancer causing effects in the experiment on test animals.

Remarks Based on available data, the classification criteria are not met.

Source RTECS

**Farnesol**

Remarks No data available.

**Specific Target Organ Toxicity (STOT) (Components)****Geraniol**

Remarks Not applicable

**(S)-p-mentha-1,8-diene**

Remarks Not applicable

**citronellol**

Remarks Not applicable

**beta-Caryophyllen**

Remarks Not applicable

**Eugenol**

Remarks Not applicable

**Farnesol**

Remarks Not applicable

**Aspiration hazard (Components)****beta-Caryophyllen**

Harmful: may cause lung damage if swallowed.

**SECTION 12: Ecological information****12.1. Toxicity**

Trade name: Cajuputi aetheroleum

Substance number: 013700

Version: 9 / CH

Date revised: 15.12.2022

Replaces Version: 8 / CH

Print date: 15.12.22

**Fish toxicity**

Remarks No data available.

**Fish toxicity (Components)****1,8-Cineole**

Species	Fathead minnow ( <i>Pimephales promelas</i> )		
LC50	102		mg/l
Duration of exposure	96	h	

**Geraniol**

LC50	Medi	3.45	mg/l
	an		
Duration of exposure	96	h	

**7-Methyl-3-methylenocta-1,6-dien**

Remarks No data available.

**(S)-p-mentha-1,8-diene**

Species	Fathead minnow ( <i>Pimephales promelas</i> )		
LC50	0.72		mg/l
Duration of exposure	96	h	
Method	OECD 203		

**citronellol**

Species	golden orfe ( <i>Leuciscus idus</i> )		
LC50	10	to	22 mg/l
Duration of exposure	96	h	

**beta-Caryophyllen**

Remarks No data available.

**Eugenol**

Species	zebra fish ( <i>Brachydanio rerio</i> )		
LC50	13		mg/l
Duration of exposure	96	h	
Method	OECD 203		

**Farnesol**

Remarks No data available.

**benzyl benzoate**

Species	zebra fish ( <i>Brachydanio rerio</i> )		
LC50	2.32		mg/l
Duration of exposure	96	h	

**Daphnia toxicity (Components)****Geraniol**

Remarks No data available.

**7-Methyl-3-methylenocta-1,6-dien**

Remarks No data available.

**(S)-p-mentha-1,8-diene**

Species	Daphnia magna		
	0.36		mg/l
Duration of exposure	48	h	

**citronellol**

Species	Daphnia		
EC50	17		mg/l
Duration of exposure	48	h	

**beta-Caryophyllen**

Remarks No data available.

**camphene**

Trade name: Cajuputi aetheroleum

Substance number: 013700

Version: 9 / CH

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Species	Daphnia magna			
EC50	13	to	36	mg/l
Duration of exposure	48	h		
Source	Literature value			

**Eugenol**

Species	Daphnia			
EC50	1.13			mg/l

**Farnesol**

Remarks	No data available.			
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**benzyl benzoate**

Species	Daphnia magna			
EC50	3.09			mg/l
Duration of exposure	48	h		
Method	OECD 202			

**benzyl benzoate**

Species	Daphnia magna			
NOEC	0.258			mg/l
Duration of exposure	21	d		
Method	OECD 211			

**Algae toxicity (Components)****Geraniol**

Remarks	No data available.			
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**7-Methyl-3-methylenocta-1,6-dien**

Remarks	No data available.			
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**(S)-p-mentha-1,8-diene**

Remarks	No data available.			
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**citronellol**

EC50	2.4			mg/l
Duration of exposure	72	h		

**beta-Caryophyllen**

Remarks	No data available.			
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**Eugenol**

Remarks	No data available.			
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**Farnesol**

Remarks	No data available.			
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**benzyl benzoate**

Species	Pseudokirchneriella subcapitata			
EC50	0.475			mg/l
Duration of exposure	72	h		
Method	OECD 201			

**benzyl benzoate**

Species	Pseudokirchneriella subcapitata			
NOEC	0.247			mg/l
Duration of exposure	72	h		
Method	OECD 201			

**Bacteria toxicity (Components)****Geraniol**

Remarks	No data available.			
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**7-Methyl-3-methylenocta-1,6-dien**

Remarks	No data available.			
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**(S)-p-mentha-1,8-diene**



Trade name: Cajuputi aetheroleum

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Species	activated sludge	
EC50	3.94	mg/l
Method	OECD 209	

**citronellol**

Remarks No data available.

**beta-Caryophyllen**

Remarks No data available.

**Eugenol**

Remarks No data available.

**Farnesol**

Remarks No data available.

**benzyl benzoate**

Species	activated sludge	
EC50	> 10000	mg/l
Duration of exposure	3	h
Method	OECD 209	

**12.2. Persistence and degradability****Physico-chemical eliminability (Components)****Geraniol**

Remarks No data available.

**(S)-p-mentha-1,8-diene**

Remarks No data available.

**beta-Caryophyllen**

Remarks No data available.

**Eugenol**

Remarks No data available.

**Farnesol**

Remarks No data available.

**Biodegradability (Components)****7-Methyl-3-methylenocta-1,6-dien**

Value	76	%
Duration of test evaluation	28	d
	Readily biodegradable	

**Geraniol**

Remarks No data available.

**(S)-p-mentha-1,8-diene**

Value evaluation	71	%
	Readily biodegradable	

**citronellol**

evaluation Readily biodegradable

**beta-Caryophyllen**

Remarks No data available.

**Farnesol**

Remarks No data available.

**benzyl benzoate**

Value	94.4	%
Duration of test evaluation	28	d
	Readily biodegradable	
Method	OECD 301	

**Ready degradability (Components)**

Trade name: Cajuputi aetheroleum

Substance number: 013700

Version: 9 / CH

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Print date: 15.12.22

**Geraniol**

Remarks No data available.

**7-Methyl-3-methylenocta-1,6-dien****(S)-p-mentha-1,8-diene****citronellol****beta-Caryophyllen**

Remarks No data available.

**Farnesol**

Remarks No data available.

**Chemical oxygen demand (COD) (Components)****Geraniol**

Remarks No data available.

**(S)-p-mentha-1,8-diene**

Remarks No data available.

**citronellol**

Value 2050 mg/g

**Farnesol**

Remarks No data available.

**Biochemical oxygen demand (BOD5) (Components)****Geraniol**

Remarks No data available.

**(S)-p-mentha-1,8-diene**

Remarks No data available.

**Farnesol**

Remarks No data available.

**12.3. Bioaccumulative potential****Partition coefficient: n-octanol/water**

Remarks not determined

**Octanol/water partition coefficient (log Pow) (Components)****7-Methyl-3-methylenocta-1,6-dien**log Pow 5.285  
Temperature 25 °C**(S)-p-mentha-1,8-diene**

log Pow 4.2

**Eugenol**

log Pow 2.7

**Bioconcentration factor (BCF) (Components)****Farnesol**

Remarks No data available

**12.6. Other adverse effects****General information / ecology**

Do not allow it to reach ground water, water bodies or sewage system.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

Trade name: Cajuputi aetheroleum

Substance number: 013700

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Disposal in compliance with local and national regulations.

**Disposal recommendations for packaging**

Dispose of as unused product.

**SECTION 14: Transport information**

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	D/E		
14.1. UN number	1169	1169	1169
14.2. UN proper shipping name	EXTRACTS, AROMATIC, LIQUID (1,8-Cineole, (S)-p-mentha-1,8-diene)	EXTRACTS, AROMATIC, LIQUID (1,8-Cineole, (S)-p-mentha-1,8-diene)	EXTRACTS, AROMATIC, LIQUID (1,8-Cineole, (S)-p-mentha-1,8-diene)
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 l		
Transport category	3		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant 	 ENVIRONMENTALLY HAZARDOUS

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Germany)**

Water Hazard Class (Germany) WGK 3

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

**SECTION 16: Other information****Hazard statements listed in Chapter 3**

H226 Flammable liquid and vapour.

Trade name: Cajuputi aetheroleum

Substance number: 013700

Version: 9 / CH

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H228	Flammable solid.
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.
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.

**CLP categories listed in Chapter 3**

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Flam. Sol. 2	Flammable solid, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1A	Skin sensitization, Category 1A
Skin Sens. 1B	Skin sensitization, Category 1B

**Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*  
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.