

Trade name: Myristicae aetheroleum

Substance number: 015150

Version: 5 / CH

Date revised: 02.03.2018

Replaces Version: 4 / CH

Print date: 02.03.18

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

### **1.1. Product identifier**

Myristicae aetheroleum

Item No. 01515000

### **Substance / product identification**

INCI Myristica Fragrans Oil

### **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**

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
Skin Sens. 1	H317
Eye Irrit. 2	H319
Asp. Tox. 1	H304
Carc. 1B	H350
Muta. 2	H341
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

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**

Trade name: Myristicae aetheroleum

Substance number: 015150

Version: 5 / CH

Date revised: 02.03.2018

Replaces Version: 4 / CH

Print date: 02.03.18

Danger

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

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H350	May cause cancer.
H341	Suspected of causing genetic defects.
H410	Very toxic to aquatic life with long lasting effects.

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

P201	Obtain special instructions before use.
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.
P308+P313	IF expoed or concerned: Get medicinal advice/attention.
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	Dipentene;(-)-pin-2(3)-ene;(1S)-beta-Pinene;Geraniol;3,7-Dimethyl-1,6-octadien-3-ol;Eugenol;isoeugenol;3-Carene, not specified;5-Allyl-1,3-benzodioxole;p-mentha-1,4-diene;p-mentha-1,3-diene;p-mentha-1,4(8)-diene;7-Methyl-3-methylenocta-1,6-dien;beta-Caryophyllen
----------	--

**Further supplemental information \*\*\***

Restricted to professional users

**Other information \*\*\***

Not for supply to the general public in Switzerland

**SECTION 3: Composition/information on ingredients \*\*\*****Chemical characterization**

Essential oil

Mixture of the following listed substances with harmless admixtures.

**Hazardous ingredients (Regulation (EC) No. 1272/2008) \*\*\*****(-)-pin-2(3)-ene**

CAS No.	7785-26-4
EINECS no.	232-077-3
Concentration	>= 10 < 25 %
Classification (Regulation (EC) No. 1272/2008)	
	Flam. Liq. 3 H226
	Skin Sens. 1B H317
	Asp. Tox. 1 H304
	Aquatic Acute 1 H400
	Aquatic Chronic 1 H410
	Skin Irrit. 2 H315

**(1S)-beta-Pinene**

CAS No.	18172-67-3
EINECS no.	242-060-2



Trade name: Myristicae aetheroleum

Substance number: 015150

Version: 5 / CH

Date revised: 02.03.2018

Replaces Version: 4 / CH

Print date: 02.03.18

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	>= 1	<	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	>= 1	<	10	%
Classification (Regulation (EC) No. 1272/2008)				
	Asp. Tox. 1		H304	

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

CAS No.	123-35-3			
EINECS no.	204-622-5			
Concentration	>= 1	<	10	%
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 3		H226	
	Asp. Tox. 1		H304	
	Skin Irrit. 2		H315	
	Eye Irrit. 2		H319	

**5-Allyl-1,3-benzodioxole**

CAS No.	94-59-7			
EINECS no.	202-345-4			
Concentration	>= 1	<	3.7	%
Classification (Regulation (EC) No. 1272/2008)				
	Muta. 2		H341	
	Acute Tox. 4		H302	
	Carc. 1B		H350	

Additional remarks:

DSD Directive 67/548/EEC, Annex I, Note E

**camphene**

CAS No.	79-92-5			
EINECS no.	201-234-8			
Concentration	>= 1	<	10	%
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Sol. 2		H228	
	Eye Irrit. 2		H319	
	Aquatic Chronic 1		H410	

**Geraniol**

CAS No.	106-24-1			
EINECS no.	203-377-1			
Concentration		<	1	%
Classification (Regulation (EC) No. 1272/2008)				
	Skin Irrit. 2		H315	

Trade name: Myristicae aetheroleum

Substance number: 015150

Version: 5 / CH

Date revised: 02.03.2018

Replaces Version: 4 / CH

Print date: 02.03.18

Skin Sens. 1	H317
Eye Dam. 1	H318

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

CAS No.	78-70-6			
EINECS no.	201-134-4			
Concentration		<	1	%
Classification (Regulation (EC) No. 1272/2008)				
	Skin Irrit. 2		H315	
	Eye Irrit. 2		H319	
	Skin Sens. 1B		H317	

**Eugenol**

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

**4-allylveratrole (Methyl eugenol)**

CAS No.	93-15-2			
EINECS no.	202-223-0			
Concentration		<	1	%
Classification (Regulation (EC) No. 1272/2008)				
	Acute Tox. 4		H302	
	Muta. 2		H341	
	Carc. 2		H351	

**isoeugenol**

CAS No.	97-54-1			
EINECS no.	202-590-7			
Concentration		<	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. 1		H317	

**3-Carene, not specified**

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

**Further ingredients****beta-Phellandren**

CAS No.	555-10-2			
EINECS no.	209-081-9			
Concentration	>=	1	<	10
				%

Trade name: Myristicae aetheroleum

Substance number: 015150

Version: 5 / CH

Date revised: 02.03.2018

Replaces Version: 4 / CH

Print date: 02.03.18

Advice: [4]

**geranyl acetate**

CAS No. 105-87-3

EINECS no. 203-341-5

Concentration &lt; 1 %

Advice: [4]

Classification (Regulation (EC) No. 1272/2008)  
Aquatic Chronic 2 H411**Advice:**

[4] Voluntary information

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Summon a doctor immediately.

**After inhalation**

Ensure supply of fresh air. Summon a doctor immediately. If the patient is likely to become unconscious, place and transport in stable sideways position.

**After skin contact**

Wash off immediately with soap and water and rinse well. Take medical treatment.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical advice immediately.

**After ingestion**

Seek medical advice immediately.

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

Carbon dioxide, Dry powder, Sand

**Non suitable extinguishing media**

Full water jet

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

No special measures required.

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

Wear protective equipment. Keep away unprotected persons.

**6.2. Environmental precautions**

Advise water authority if spillage has entered water course or drainage system. Do not discharge into the drains/surface waters/groundwater.

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

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder, sawdust). Ensure adequate ventilation. When picked up, treat material as prescribed under Section 13 "Disposal". Don't

Trade name: Myristicae aetheroleum

Substance number: 015150

Version: 5 / CH

Date revised: 02.03.2018

Replaces Version: 4 / CH

Print date: 02.03.18

rinse away with water.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Handle and open container with care. Avoid formation of aerosols.

#### **Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Hold breathing apparatus.

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

#### **Requirements for storage rooms and vessels**

No special requirements.

#### **Hints on storage assembly**

Not required.

#### **Storage classes**

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

#### **Further information on storage conditions**

Keep container tightly closed.

## **SECTION 8: Exposure controls/personal protection \*\*\***

### **8.2. Exposure controls**

#### **Exposure controls**

See Section 7. No measures exceeding the ones mentioned necessary.

#### **General protective and hygiene measures**

Keep away from food-stuffs, beverages and feed-stocks. Take off immediately all contaminated clothing. Wash hands before breaks and after work. Store work clothing separately. Avoid contact with skin and eyes.

#### **Respiratory protection**

Short term: filter apparatus; At intensive and longer exposition use self-contained breathing apparatus.

#### **Hand protection**

Protective gloves

Appropriate Material

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

#### **Eye protection**

Tightly fitting safety glasses

## **SECTION 9: Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

<b>Form</b>	liquid
<b>Colour</b>	yellowish
<b>Odour</b>	characteristic
<b>Melting point</b>	
Remarks	not determined

Trade name: Myristicae aetheroleum

Substance number: 015150

Version: 5 / CH

Date revised: 02.03.2018

Replaces Version: 4 / CH

Print date: 02.03.18

**Flash point**

Value 47 °C

**Density**Value 0.89 g/cm<sup>3</sup>

Temperature 20 °C

**Solubility in water**

Remarks Immiscible resp. little miscible.

**Decomposition temperature**

Remarks No decomposition if used as prescribed.

**9.2. Other information****Other information**

The product is not dangerous for explosions. Forms explosive mixture with air are possible.

**SECTION 10: Stability and reactivity****10.4. Conditions to avoid**

No decomposition if stored and applied as directed.

**Decomposition temperature**

Remarks No decomposition if used as prescribed.

**10.5. Incompatible materials**

No dangerous reactions known.

**10.6. Hazardous decomposition products**

No hazardous decomposition products known when handled according to prescribed instructions.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity**ATE 4'003.20 mg/kg  
26

Method calculated value (Regulation (EC) No. 1272/2008)

**Acute oral toxicity (Components)****Geraniol**Species rat  
LD50 3600 mg/kg**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**beta-Caryophyllen**Species rat  
LD > 48 mg/kg  
Source Intratracheal (RTECS)**camphene**Species rabbit  
LD50 > 2500 mg/kg



Trade name: Myristicae aetheroleum

Substance number: 015150

Version: 5 / CH

Date revised: 02.03.2018

Replaces Version: 4 / CH

Print date: 02.03.18

Source IUCLID

**Eugenol**

Species rat  
 LD50 > 2000 mg/kg  
 Method OECD 423

**Eugenol**

Species rat  
 LDLo 800 mg/kg  
 Remarks intraperitoneal

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

Species rabbit  
 > 5000 mg/kg

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

Species rabbit  
 LD50 > 5000 mg/kg

**Acute inhalative toxicity (Components)****Eugenol**

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

**Skin corrosion/irritation**

Remarks Irritates the mucous membrane.  
 Remarks Irritating to skin.

**Serious eye damage/irritation**

Remarks Irritates the eyes.

**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

**camphene**

evaluation non-sensitizing  
 Source IUCLID

**Mutagenicity**

Reference substance 5-Allyl-1,3-benzodioxole

**Reproductive toxicity**

Remarks None

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

Species rat  
 evaluation Can cause malformations.

**Carcinogenicity**

Reference substance 5-Allyl-1,3-benzodioxole

**Carcinogenicity (Components)****Eugenol**

Trade name: Myristicae aetheroleum

Substance number: 015150

Version: 5 / CH

Date revised: 02.03.2018

Replaces Version: 4 / CH

Print date: 02.03.18

Species evaluation	mouse
Remarks	Essential points have been found for a possible cancer causing effects in the experiment on test animals.
Source	Based on available data, the classification criteria are not met. RTECS

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

#### **Fish toxicity**

Remarks	Very toxic for fishes.
---------	------------------------

#### **Fish toxicity (Components)**

##### **Geraniol**

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

##### **Eugenol**

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

#### **Daphnia toxicity (Components)**

##### **camphene**

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

### **12.2. Persistence and degradability**

#### **Biodegradability (Components)**

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

Value	76	%
Duration of test evaluation	28	d
	Readily biodegradable	

### **12.3. Bioaccumulative potential**

#### **Octanol/water partition coefficient (log Pow) (Components)**

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

log Pow	5.285
Temperature	25 °C

##### **Eugenol**

log Pow	2.7
---------	-----

### **12.6. Other adverse effects**

#### **General information / ecology**

Product is hazardous to water. Do not allow it to reach ground water, water bodies or sewage system.  
Hazard for drinking water supplies. Toxic for aquatic organisms.

## **SECTION 13: Disposal considerations**

Trade name: Myristicae aetheroleum

Substance number: 015150

Version: 5 / CH

Date revised: 02.03.2018

Replaces Version: 4 / CH

Print date: 02.03.18

**13.1. Waste treatment methods****Disposal recommendations for the product**

EWC waste code

No not dispose with rubbish.

EWC waste code

Should not be released into the sanitary sewer system.

**Disposal recommendations for packaging**

Disposal in compliance with local and national regulations.

**SECTION 14: Transport information****Land transport ADR/RID****14.1. UN number**

UN 1993

**14.2. UN proper shipping name**

FLAMMABLE LIQUID, N.O.S. ((1S)-beta-Pinene, (-)-pin-2(3)-ene)

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

Class 3

Label 3

**14.4. Packing group**

Packing group III

Special provision 640E

Limited Quantity 5 I

Transport category 3

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS

Tunnel restriction code D/E

**Marine transport IMDG/GGVSee****14.1. UN number**

UN 1993

**14.2. UN proper shipping name**

FLAMMABLE LIQUID, N.O.S. ((1S)-beta-Pinene, (-)-pin-2(3)-ene)

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

Class 3

**14.4. Packing group**

Packing group III

**Air transport ICAO/IATA****14.1. UN number**

UN 1993

**14.2. UN proper shipping name**

FLAMMABLE LIQUID, N.O.S. ((1S)-beta-Pinene, (-)-pin-2(3)-ene)

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

Class 3

**14.4. Packing group**

Packing group III

**14.5. Environmental hazards**

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 WGK 3

Trade name: Myristicae aetheroleum

Substance number: 015150

Version: 5 / CH

Date revised: 02.03.2018

Replaces Version: 4 / CH

Print date: 02.03.18

(Germany)

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.
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.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

**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
Carc. 1B	Carcinogenicity, Category 1B
Carc. 2	Carcinogenicity, Category 2
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
Muta. 2	Germ cell mutagenicity, Category 2
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1B	Skin Sens. 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.