

Trade name: Cinnamomi zeylanici folii aeth. / Solmer

Substance number: 014160

Version: 3 / CH

Date revised: 17.12.2018

Replaces Version: 2 / CH

Print date: 16.05.19

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

1.1. Product identifier

Cinnamomi zeylanici folii aeth. / Solmer

Item No. 01416000

Substance / product identification

CAS-No. 8015-91-6

EINECS-No. 283-479-0

INCI CINNAMOMUM ZEYLANICUM LEAF OIL

REACH Registry No. 01-2119487278-3

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)

Skin Sens. 1 H317

Aquatic Chronic 3 H412

Eye Irrit. 2 H319

Muta. 2 H341

Carc. 1B H350

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

H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.
H319	Causes serious eye irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.

Precautionary statements

P201	Obtain special instructions before use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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 exposed or concerned: Get medicinal advice/attention.

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

contains	1,8-Cineole; 3,7-Dimethyl-1,6-octadien-3-ol; Cinnamaldehyde ; Eugenol; cinnamyl alcohol; (R)-p-mentha-1,8-diene; Citral; 5-Allyl-1,3-benzodioxole; coumarin
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Supplemental information**Further supplemental information**

Restricted to professional users

Other information

Not for supply to the general public in Switzerland

SECTION 3: Composition/information on ingredients**Hazardous ingredients****Eugenol**

CAS No.	97-53-0			
EINECS no.	202-589-1			
Concentration	>=	50		%
Classification (Regulation (EC) No. 1272/2008)				
	Skin Sens. 1B		H317	
	Eye Irrit. 2		H319	

Benzyl benzoate

CAS No.	120-51-4			
EINECS no.	204-402-9			
Concentration	>=	1	<	10 %
Classification (Regulation (EC) No. 1272/2008)				
	Acute Tox. 4		H302	
	Aquatic Acute 1		H400	
	Aquatic Chronic 2		H411	

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

CAS No.	78-70-6			
EINECS no.	201-134-4			
Concentration	>=	1	<	5.5 %
Classification (Regulation (EC) No. 1272/2008)				
	Skin Irrit. 2		H315	
	Eye Irrit. 2		H319	
	Skin Sens. 1B		H317	

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Cinnamaldehyde

CAS No. 104-55-2
 EINECS no. 203-213-9
 Concentration >= 1 < 4.5 %
 Classification (Regulation (EC) No. 1272/2008)
 Acute Tox. 4 H312
 Skin Irrit. 2 H315
 Skin Sens. 1 H317
 Eye Irrit. 2 H319

1,8-Cineole

CAS No. 470-82-6
 EINECS no. 207-431-5
 Concentration >= 1 < 10 %
 Classification (Regulation (EC) No. 1272/2008)
 Flam. Liq. 3 H226
 Skin Sens. 1B H317

5-Allyl-1,3-benzodioxole

CAS No. 94-59-7
 EINECS no. 202-345-4
 Concentration >= 1 < 3 %
 Classification (Regulation (EC) No. 1272/2008)
 Acute Tox. 4 H302
 Muta. 2 H341
 Carc. 1B H350

Additional remarks:

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

(R)-p-mentha-1,8-diene

CAS No. 5989-27-5
 EINECS no. 227-813-5
 Concentration < 1 %
 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

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

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

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

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

coumarin

CAS No. 91-64-5
 EINECS no. 202-086-7
 Concentration < 1 %
 Classification (Regulation (EC) No. 1272/2008)
 Acute Tox. 4 H302
 Skin Sens. 1 H317
 Aquatic Chronic 3 H412

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cinnamyl alcohol

CAS No.	104-54-1		
EINECS no.	203-212-3		
Concentration		< 1	%
Classification (Regulation (EC) No. 1272/2008)			
	Skin Sens. 1	H317	
	Skin Irrit. 2	H315	
	Eye Irrit. 2	H319	
	Acute Tox. 4	H302	

Citral

CAS No.	5392-40-5		
EINECS no.	226-394-6		
Concentration		< 1	%
Classification (Regulation (EC) No. 1272/2008)			
	Skin Irrit. 2	H315	
	Eye Irrit. 2	H319	
	Skin Sens. 1	H317	

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

Ensure supply of fresh air. 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.

After eye contact

Remove contact lenses. Separate eyelids, wash the eyes thoroughly with water (15 min.).

After ingestion

Do not induce vomiting - aspiration hazard. Seek medical advice immediately.

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

Carbon dioxide, Dry powder, 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**

In case of combustion use a suitable 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 7 and 8.

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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). When picked up, treat material as prescribed under Section 13 "Disposal".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Isolate from sources of heat, sparks and open flame. Smoking, eating and drinking should be prohibited in application area. Wear protective equipment. Provide good ventilation of working area (local exhaust ventilation if necessary).

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a well-ventilated place. Keep in a cool place. explosion proof

Hints on storage assembly

Not required.

Storage classes

Storage class according to TRGS 510	6.1C	Combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects
Storage category (Switzerland)	6.1	Toxic substances

Further information on storage conditions

Keep container tightly closed.

7.3. Specific end use(s)

flavour/ fragrance

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

(R)-p-mentha-1,8-diene

List	SUVA			
Type	MAK			
Value	40	mg/m ³	7	ppm(V)
Short term exposure limit	80	mg/m ³	14	ppm(V)
Pregnancy group: S; Status: 2017; Remarks: S SSc; LeberKT AN				

8.2. Exposure controls

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. Avoid contact with skin. Avoid contact with eyes.

Respiratory protection

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

Hand protection

Chemical resistant gloves

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Appropriate Material Ansell Barrier 02-100

Eye protection

Tightly fitting safety glasses

Body protection

Protective clothing

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

Form	liquid
Colour	clear yellow to red
Odour	characteristic
Odour threshold	
Remarks	not determined
pH value	
Remarks	not determined
Melting point	
Remarks	not determined
Initial boiling point and boiling range	
Remarks	not determined
Flash point	
Value	88 °C
Flammability (solid, gas)	
Not applicable	
Vapour density	
Remarks	not determined
Density	
Value	1.0300 to 1.0590 g/cm ³
Remarks	Relative Density according specification
Solubility in water	
Remarks	Immiscible resp. little miscible.
Partition coefficient: n-octanol/water	
Remarks	not determined

9.2. Other information**Other information**

The product is not dangerous for explosions.

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

No decomposition if stored and applied as directed.

10.2. Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

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Heat

10.5. Incompatible materials

Reactions with acids, alkalies and oxidizing agents.

10.6. Hazardous decomposition products

None known

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

ATE	10'000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute oral toxicity (Components)**1,8-Cineole**

Species	rat	
LD50	2840	mg/kg
Source	RTECS	

Eugenol

Species	rat	
LD50	> 2000	mg/kg
Method	OECD 423	

Eugenol

Species	rat	
LDLo	800	mg/kg
Remarks	intraperitoneal	

(R)-p-mentha-1,8-diene

Species	rat	
LD50	4400	mg/kg

(R)-p-mentha-1,8-diene

Species	mouse	
NOAEL	1650	mg/kg

(R)-p-mentha-1,8-diene

Species	mouse	
LOAEL	3300	mg/kg

Citral

Species	Rats (male/female)	
LD50	6800	mg/kg

Citral

Species	rat (female)	
LOAEL	335	mg/kg

Citral

Species	rat (male)	
LOAEL	345	mg/kg

Acute dermal toxicity

ATE	> 10'000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute dermal toxicity (Components)**(R)-p-mentha-1,8-diene**

Species	rabbit	
LD50	> 5000	mg/kg

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Citral

Species	Rats (male/female)	
	> 2000	mg/kg

Acute inhalative toxicity (Components)**Eugenol**

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

Skin corrosion/irritation

Remarks	Irritating to skin.
Remarks	Irritates the mucous membrane.

Serious eye damage/irritation

evaluation	strongly irritant
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Sensitization

Remarks	May cause sensitization by skin contact.
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Sensitization (Components)**(R)-p-mentha-1,8-diene**

Species	mouse
evaluation	sensitizing
Method	OECD 429
Remarks	May cause sensitization by skin contact.

Citral

Species	mouse
evaluation	sensitizing
Method	OECD 429

Mutagenicity

evaluation	Suspected of causing genetic defects.
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Mutagenicity (Components)**Citral**

Species	hamster
evaluation	No experimental information on genotoxicity in vitro available.
Remarks	negative

Citral

Species	mouse
Remarks	negative

Carcinogenicity

evaluation	Can cause cancer.
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Carcinogenicity (Components)**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

Aspiration hazard

Harmful:	may cause lung damage if swallowed.
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SECTION 12: Ecological information

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12.1. Toxicity

General information

May cause long lasting harmful effects to aquatic life. Do not allow it to reach soil, ground water, water bodies or sewage system.

Fish toxicity (Components)

1,8-Cineole

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

Eugenol

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

(R)-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	

Citral

Species	golden orfe (<i>Leuciscus idus</i>)	
LC50	6.78	mg/l
Duration of exposure	96	h
Method	DIN 38412 T.15	

Daphnia toxicity (Components)

Eugenol

Species	Daphnia	
EC50	1.13	mg/l

(R)-p-mentha-1,8-diene

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

Citral

Species	Daphnia magna	
EC50	6.8	mg/l
Duration of exposure	48	h

Bacteria toxicity (Components)

(R)-p-mentha-1,8-diene

Species	activated sludge	
EC50	3.94	mg/l
Method	OECD 209	

12.2. Persistence and degradability

General information

May cause long lasting harmful effects to aquatic life.

Biodegradability (Components)

(R)-p-mentha-1,8-diene

Value	71	%
evaluation	Readily biodegradable	

Citral

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Value evaluation Method	85 to 95 %
	Readily biodegradable OECD 301C

12.3. Bioaccumulative potential**General information**

There is no data available on the product apart from the information given in this subsection.

Partition coefficient: n-octanol/water

Remarks not determined

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

log Pow 2.7

(R)-p-mentha-1,8-diene

log Pow 4.2

Citral

log Pow 2.9
Temperature 25 °C

12.4. Mobility in soil**General information**

There is no data available on the product apart from the information given in this subsection.

12.5. Results of PBT and vPvB assessment**General information**

May cause long lasting harmful effects to aquatic life.

Evaluation of persistence and bioaccumulation potential

The Substance doesn't meets PBT/vPvB-criteria

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

Hazard for drinking water supplies. Harmful to aquatic organisms.

SECTION 13: Disposal considerations**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 in compliance with local and national regulations.	

SECTION 14: Transport information

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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	-		
14.1. UN number	3082	3082	3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3. Transport hazard class(es)	9	9	9
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 I		
Transport category	3		

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.
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.
H319	Causes serious eye irritation.
H341	Suspected of causing genetic defects.
H350	May cause 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.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

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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 3	Hazardous to the aquatic environment, chronic, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 1B	Carcinogenicity, Category 1B
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
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 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.