

Trade name: Cinnamomi zeylanici folii aeth. / Solmer

Substance number: 014160

Version: 4 / CH

Date revised: 22.05.2025

Replaces Version: 3 / CH

Print date: 22.05.25

## **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. 01-2119487278-23

### **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 Irrit. 2 H315

Eye Irrit. 2 H319

Skin Sens. 1A H317

Muta. 2 H341

Carc. 1B H350

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**

Trade name: Cinnamomi zeylanici folii aeth. / Solmer

Substance number: 014160

Version: 4 / CH

Date revised: 22.05.2025

Replaces Version: 3 / CH

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Danger

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

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H411	Toxic to aquatic life with long lasting effects.

**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 \*\*\* 3,7-Dimethyl-1,6-octadien-3-ol; Cinnamaldehyde; Eugenol; cinnamyl alcohol; coumarin; isoeugenol; dipentene; citral; (1R)-alpha-Pinene; Farnesol; safrole

**Supplemental information****Further supplemental information**

Restricted to professional users

**Other information**

Not for supply to the general public in Switzerland

**2.3. Other hazards**

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

**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	

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

CAS No.	78-70-6			
EINECS no.	201-134-4			
Concentration	>=	1	<	10 %
Classification (Regulation (EC) No. 1272/2008)				
	Skin Irrit. 2		H315	
	Eye Irrit. 2		H319	
	Skin Sens. 1B		H317	

**citral**

CAS No.	5392-40-5
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Trade name: Cinnamomi zeylanici folii aeth. / Solmer

Substance number: 014160

Version: 4 / CH

Date revised: 22.05.2025

Replaces Version: 3 / CH

Print date: 22.05.25

EINECS no. 226-394-6  
 Concentration  $\geq$  1 < 5.9 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Skin Irrit. 2 H315  
 Eye Irrit. 2 H319  
 Skin Sens. 1 H317

ATE oral 345 mg/kg

**benzyl benzoate**

CAS No. 120-51-4  
 EINECS no. 204-402-9  
 Registration no. 01-2119976371-33-0006  
 Concentration  $\geq$  2.5 < 5.9 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Acute Tox. 4 H302  
 Aquatic Acute 1 H400  
 Aquatic Chronic 2 H411

ATE oral 1'500 mg/kg

**4-allyl-2-methoxyphenyl acetate**

CAS No. 93-28-7  
 EINECS no. 202-235-6  
 Concentration  $\geq$  1 < 3.5 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Acute Tox. 4 H302

ATE oral 1'670 mg/kg

**Cinnamaldehyde**

CAS No. 104-55-2  
 EINECS no. 203-213-9  
 Concentration  $\geq$  1 < 10 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Acute Tox. 4 H312  
 Skin Irrit. 2 H315  
 Skin Sens. 1 H317  
 Eye Irrit. 2 H319

cATpE dermal 1'100 mg/kg

**cinnamyl alcohol**

CAS No. 104-54-1  
 EINECS no. 203-212-3  
 Concentration  $\geq$  1 < 10 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Skin Sens. 1 H317  
 Skin Irrit. 2 H315

**(1R)-alpha-Pinene**

CAS No. 7785-70-8  
 EINECS no. 232-087-8  
 Concentration  $\geq$  1 < 2.3 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Flam. Liq. 3 H226  
 Asp. Tox. 1 H304  
 Skin Irrit. 2 H315  
 Skin Sens. 1 H317

Trade name: Cinnamomi zeylanici folii aeth. / Solmer

Substance number: 014160

Version: 4 / CH

Date revised: 22.05.2025

Replaces Version: 3 / CH

Print date: 22.05.25

	Aquatic Acute 1	H400	
	Aquatic Chronic 1	H410	
ATE	oral	500	mg/kg

**dipentene**

CAS No.	138-86-3	
EINECS no.	205-341-0	
Concentration	>= 1	< 2.5 %
Classification (Regulation (EC) No. 1272/2008)		
	Flam. Liq. 3	H226
	Skin Irrit. 2	H315
	Skin Sens. 1	H317
	Aquatic Acute 1	H400
	Aquatic Chronic 1	H410

Additional remarks:

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

**safrole**

CAS No.	94-59-7	
EINECS no.	202-345-4	
Concentration	>= 1	< 1.4 %
Classification (Regulation (EC) No. 1272/2008)		
	Acute Tox. 4	H302
	Muta. 2	H341
	Carc. 1B	H350

cATpE	oral	500	mg/kg
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**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
	Acute Tox. 3	H331
	Asp. Tox. 1	H304
	Aquatic Chronic 2	H411

cATpE	inhalative, Dust/Mist	0.5	mg/l
cATpE	inhalative, Vapors	3	mg/l

**coumarin**

CAS No.	91-64-5	
EINECS no.	202-086-7	
Concentration	>= 0.1	< 1 %
Classification (Regulation (EC) No. 1272/2008)		
	Acute Tox. 4	H302
	Skin Sens. 1	H317
	Aquatic Chronic 3	H412

**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

Trade name: Cinnamomi zeylanici folii aeth. / Solmer

Substance number: 014160

Version: 4 / CH

Date revised: 22.05.2025

Replaces Version: 3 / CH

Print date: 22.05.25

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

**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		

**Further ingredients****beta-Caryophyllen**

CAS No.	87-44-5			
EINECS no.	201-746-1			
Concentration	>= 1	< 10		%
Advice: [4]				
Classification (Regulation (EC) No. 1272/2008)				
	Asp. Tox. 1	H304		

**Propyphenazone**

CAS No.	479-92-5			
EINECS no.	207-539-2			
Concentration		< 1		%
Advice: [4]				
Classification (Regulation (EC) No. 1272/2008)				
	Acute Tox. 4	H302		

**benzaldehyde**

CAS No.	100-52-7			
EINECS no.	202-860-4			
Concentration		< 1		%
Advice: [4]				
Classification (Regulation (EC) No. 1272/2008)				
	Acute Tox. 4	H302		
	Acute Tox. 4	H332		
	Eye Irrit. 2	H319		
	STOT SE 3	H335		

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

CAS No.	586-62-9			
EINECS no.	209-578-0			
Concentration		< 1		%
[4]				
Classification (Regulation (EC) No. 1272/2008)				
	Asp. Tox. 1			
	Flam. Liq. 3			
	Aquatic Chronic 2			

**Note**

[4] Voluntary information

Trade name: Cinnamomi zeylanici folii aeth. / Solmer

Substance number: 014160

Version: 4 / CH

Date revised: 22.05.2025

Replaces Version: 3 / CH

Print date: 22.05.25

## **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.

### **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**

Trade name: Cinnamomi zeylanici folii aeth. / Solmer

Substance number: 014160

Version: 4 / CH

Date revised: 22.05.2025

Replaces Version: 3 / CH

Print date: 22.05.25

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  
Toxic substances

Storage category (Switzerland) 6.1

**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****Derived No/Minimal Effect Levels (DNEL/DMEL)****benzyl benzoate**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	5.1	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	102	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	2.6	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	0.4	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	1.25	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	

Trade name: Cinnamomi zeylanici folii aeth. / Solmer

Substance number: 014160

Version: 4 / CH

Date revised: 22.05.2025

Replaces Version: 3 / CH

Print date: 22.05.25

Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	25	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	1.3	mg/kg/d

**Predicted No Effect Concentration (PNEC)****benzyl benzoate**

Type of value	PNEC	
Type	Freshwater	
Concentration	0.017	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	10.66	mg/kg
Type of value	PNEC	
Type	Saltwater	
Concentration	0.00168	mg/l
Type of value	PNEC	
Type	Marine sediment	
Concentration	1.07	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	100	mg/l
Type of value	PNEC	
Type	Soil	
Concentration	2.12	mg/kg

**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  
Appropriate Material      Ansell Barrier 02-100

**Eye protection**

Tightly fitting safety glasses

**Body protection**

Protective clothing



Trade name: Cinnamomi zeylanici folii aeth. / Solmer

Substance number: 014160

Version: 4 / CH

Date revised: 22.05.2025

Replaces Version: 3 / CH

Print date: 22.05.25

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

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

**Physical state**

liquid

**Colour**

clear yellow to red

**Odour**

characteristic

**Melting point**

Remarks

not determined

**Boiling point or initial boiling point and boiling range**

Remarks

not determined

**Flammability**

Not applicable

**Flash point**

Value

88

°C

**pH value**

Remarks

not determined

**Partition coefficient n-octanol/water (log value)**

Remarks

not determined

**Density and/or relative density**

Value

1.0300 to 1.0590 g/cm<sup>3</sup>

Remarks

Relative Density according specification

**Relative vapour density**

Remarks

not determined

### **9.2. Other information**

**Odour threshold**

Remarks

not determined

**Solubility in water**

Remarks

Immiscible resp. little miscible.

**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**

Heat

### **10.5. Incompatible materials**

Reactions with acids, alkalies and oxidizing agents.

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

None known

Trade name: Cinnamomi zeylanici folii aeth. / Solmer

Substance number: 014160

Version: 4 / CH

Date revised: 22.05.2025

Replaces Version: 3 / CH

Print date: 22.05.25

## SECTION 11: Toxicological information

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

#### Acute oral toxicity

ATE	3'842.82	mg/kg
	92	
Method	calculated value (Regulation (EC) No. 1272/2008)	

#### Acute oral toxicity (Components)

##### Eugenol

Species	rat	
LD50	> 2000	mg/kg
Method	OECD 423	

##### Eugenol

Species	rat	
LDLo	800	mg/kg
Remarks	intraperitoneal	

##### Propyphenazone

Species	rat	
LD50	860	mg/kg

##### beta-Caryophyllen

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

##### 4-allyl-2-methoxyphenyl acetate

Species	rat	
LD50	1670	mg/kg

##### 4-allyl-2-methoxyphenyl acetate

Species	rat	
LDLo	48	mg/kg
Source	Intratracheal (RTECS)	

##### Farnesol

Species	rat	
LD50	6000	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

##### benzyl benzoate

Species	rat	
LD50	1500	mg/kg

##### (1R)-alpha-Pinene

Species	rat	
LD50	3700	mg/kg

##### (1R)-alpha-Pinene

Species	mouse	
LD	> 500	mg/kg

Trade name: Cinnamomi zeylanici folii aeth. / Solmer

Substance number: 014160

Version: 4 / CH

Date revised: 22.05.2025

Replaces Version: 3 / CH

Print date: 22.05.25

Remarks intraperitoneal

**Acute dermal toxicity**

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

**Acute dermal toxicity (Components)****beta-Caryophyllen**

Remarks No data available.

**Eugenol**

Remarks No data available.

**4-allyl-2-methoxyphenyl acetate**

Species rabbit  
 LD50 > 5000 mg/kg

**Farnesol**

Remarks No data available.

**citral**

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

**(1R)-alpha-Pinene**

Species rabbit  
 LD50 > 5000 mg/kg

**Acute inhalational toxicity**

ATE > 100 mg/l  
 Administration/Form Vapors  
 Method calculated value (Regulation (EC) No. 1272/2008)  
 ATE > 20 mg/l  
 Administration/Form Dust/Mist  
 Method calculated value (Regulation (EC) No. 1272/2008)

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

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

**beta-Caryophyllen**

Remarks No data available.

**4-allyl-2-methoxyphenyl acetate**

Remarks No data available.

**Farnesol**

Remarks No data available.

**citral**

Remarks No data available.

**(1R)-alpha-Pinene**

Species rat  
 LCLo 625 µg/m<sup>3</sup>  
 Source RTECS: DT7000000

**(1R)-alpha-Pinene**

Species guinea pig  
 LCLo 572 µg/m<sup>3</sup>  
 Source RTECS

**Skin corrosion/irritation**

Remarks Irritating to skin.  
 Remarks Irritates the mucous membrane.

Trade name: Cinnamomi zeylanici folii aeth. / Solmer

Substance number: 014160

Version: 4 / CH

Date revised: 22.05.2025

Replaces Version: 3 / CH

Print date: 22.05.25

**Skin corrosion/irritation (Components)****beta-Caryophyllen**

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

**Eugenol**

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

**Eugenol**

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

**Eugenol**

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

**4-allyl-2-methoxyphenyl acetate**

Species	rabbit
Duration of exposure	24 h
evaluation	Moderately irritating

**Farnesol**

Remarks	No data available.
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**citral**

Species	rabbit
evaluation	irritant
Remarks	Irritating to skin.

**benzyl benzoate**

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

**(1R)-alpha-Pinene**

Species	Human
Duration of exposure	15 min
Remarks	Irritating to skin.
Source	Test mit künstlichem Hautmodell (Episkin)

**(1R)-alpha-Pinene**

Species	rabbit
Duration of exposure	24 h
evaluation	Moderately irritating
Source	RTECS

**Serious eye damage/irritation**

evaluation	strongly irritant
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Trade name: Cinnamomi zeylanici folii aeth. / Solmer

Substance number: 014160

Version: 4 / CH

Date revised: 22.05.2025

Replaces Version: 3 / CH

Print date: 22.05.25

**Serious eye damage/irritation (Components)****beta-Caryophyllen**

Remarks No data available.

**Eugenol**Species rabbit  
evaluation irritant**4-allyl-2-methoxyphenyl acetate**

Remarks No data available.

**Farnesol**

Remarks No data available.

**citral**Species rabbit  
evaluation irritant  
Method OECD 405  
Remarks Irritates the eyes.**benzyl benzoate**Species rabbit  
evaluation Moderately irritating  
Method OECD 405**(1R)-alpha-Pinene**

Remarks No data available.

**Sensitization**

Remarks May cause sensitization by skin contact.

**Sensitization (Components)****beta-Caryophyllen**

Remarks No data available.

**Eugenol**Species mouse  
Method OECD 429  
Remarks May cause allergic skin reactions.**4-allyl-2-methoxyphenyl acetate**

Remarks No data available.

**Farnesol**

Remarks No data available.

**citral**Species mouse  
evaluation sensitizing  
Method OECD 429**benzyl benzoate**Species mouse  
evaluation non-sensitizing  
Method OECD 429**(1R)-alpha-Pinene**

Remarks No data available.

**Subacute, subchronic, chronic toxicity (Components)****Farnesol**

Remarks No data available.

**benzyl benzoate**Chronic toxicity  
Route of exposure dermal

Trade name: Cinnamomi zeylanici folii aeth. / Solmer

Substance number: 014160

Version: 4 / CH

Date revised: 22.05.2025

Replaces Version: 3 / CH

Print date: 22.05.25

Species	Rats (male/female)	
NOAEL	781	mg/kg
Repeated exposure		
Duration of exposure	28	d

**(1R)-alpha-Pinene**

Remarks Not applicable

**Mutagenicity**

evaluation Suspected of causing genetic defects.

**Mutagenicity (Components)****beta-Caryophyllen**

Remarks No data available.

**Eugenol**

Species	rat
evaluation	DNA damage

**Eugenol**

Species	mouse
evaluation	May cause genetic defects.

**Eugenol**

Species	hamster
evaluation	May cause genetic defects.

**4-allyl-2-methoxyphenyl acetate**

Remarks No data available.

**Farnesol**

Remarks No data available.

**citral**

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

**citral**

Species	mouse
Remarks	negative

**benzyl benzoate**

Species	Human
evaluation	No experimental information on genotoxicity in vitro available.
Method	OECD 473

**benzyl benzoate**

Species	hamster
evaluation	No experimental information on genotoxicity in vitro available.
Method	OECD 476

**(1R)-alpha-Pinene**

Species	Salmonella typhimurium
Method	Ames test
Remarks	negative

**Reproduction toxicity (Components)****beta-Caryophyllen**

Remarks No data available.

**Eugenol**

Remarks No data available.

**Farnesol**

Remarks No data available.

**citral**

Trade name: Cinnamomi zeylanici folii aeth. / Solmer

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Version: 4 / CH

Date revised: 22.05.2025

Replaces Version: 3 / CH

Print date: 22.05.25

Remarks No data available.

**benzyl benzoate**

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

**(1R)-alpha-Pinene**

Remarks No data available.

**Carcinogenicity**

evaluation Can cause cancer.

**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

**4-allyl-2-methoxyphenyl acetate**

Remarks No data available.

**Farnesol**

Remarks No data available.

**citral**

Remarks No data available.

**benzyl benzoate**

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

**(1R)-alpha-Pinene**

Remarks Not applicable

**Specific Target Organ Toxicity (STOT) (Components)****beta-Caryophyllen**

Remarks Not applicable

**Eugenol**

Remarks Not applicable

**4-allyl-2-methoxyphenyl acetate**

Remarks Not applicable

**Farnesol**

Remarks Not applicable

**citral**

Remarks Not applicable

**benzyl benzoate**

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

**(1R)-alpha-Pinene**

Remarks Not applicable

**Aspiration hazard**

Harmful: may cause lung damage if swallowed.

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

Harmful: may cause lung damage if swallowed.

**11.2 Information on other hazards****Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Trade name: Cinnamomi zeylanici folii aeth. / Solmer

Substance number: 014160

Version: 4 / CH

Date revised: 22.05.2025

Replaces Version: 3 / CH

Print date: 22.05.25

## SECTION 12: Ecological information \*\*\*

### 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)

##### Eugenol

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

##### beta-Caryophyllen

Remarks No data available.

##### 4-allyl-2-methoxyphenyl acetate

Remarks No data available.

##### Farnesol

Remarks No data available.

##### citral

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

##### benzyl benzoate

Species	zebra fish (Brachydanio rerio)	
LC50	2.32	mg/l
Duration of exposure	96	h
Method	Directive 67/548/EEC, Annex V, C.1.	

##### (1R)-alpha-Pinene

Remarks No data available.

#### Daphnia toxicity (Components)

##### Eugenol

Species	Daphnia	
EC50	1.13	mg/l

##### beta-Caryophyllen

Remarks No data available.

##### 4-allyl-2-methoxyphenyl acetate

Remarks No data available.

##### Farnesol

Remarks No data available.

##### citral

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

##### benzyl benzoate

Species	Daphnia magna	
EC50	3.09	mg/l
Duration of exposure	48	h
Method	OECD 201	

##### benzyl benzoate



Trade name: Cinnamomi zeylanici folii aeth. / Solmer

Substance number: 014160

Version: 4 / CH

Date revised: 22.05.2025

Replaces Version: 3 / CH

Print date: 22.05.25

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

**(1R)-alpha-Pinene**

Species	Daphnia magna	
EC50	41	mg/l

**Algae toxicity (Components)****beta-Caryophyllen**

Remarks	No data available.
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**Eugenol**

Remarks	No data available.
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**4-allyl-2-methoxyphenyl acetate**

Remarks	No data available.
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**Farnesol**

Remarks	No data available.
---------	--------------------

**citral**

Species	Desmodesmus subspicatus	
EC50	to 103.8	mg/l
Duration of exposure	- 72	h

**benzyl benzoate**

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

**benzyl benzoate**

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

**(1R)-alpha-Pinene**

Remarks	No data available.
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**Bacteria toxicity (Components)****beta-Caryophyllen**

Remarks	No data available.
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**Eugenol**

Remarks	No data available.
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**4-allyl-2-methoxyphenyl acetate**

Remarks	No data available.
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**Farnesol**

Remarks	No data available.
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**citral**

Remarks	No data available.
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**benzyl benzoate**

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

**(1R)-alpha-Pinene**

Remarks	No data available.
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**12.2. Persistence and degradability**

Trade name: Cinnamomi zeylanici folii aeth. / Solmer

Substance number: 014160

Version: 4 / CH

Date revised: 22.05.2025

Replaces Version: 3 / CH

Print date: 22.05.25

**General information**

May cause long lasting harmful effects to aquatic life.

**Physico-chemical eliminability (Components)****beta-Caryophyllen**

Remarks No data available.

**Eugenol**

Remarks No data available.

**Farnesol**

Remarks No data available.

**citral**

Remarks No data available.

**(1R)-alpha-Pinene**

Remarks No data available.

**Biodegradability (Components)****beta-Caryophyllen**

Remarks No data available.

**Farnesol**

Remarks No data available.

**citral**

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

**benzyl benzoate**

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

**(1R)-alpha-Pinene**

Value	61	%
Duration of test	28	d
evaluation	Readily biodegradable	
Method	OECD 301 B	
Remarks	The product is biodegradable.	
Source	Kriterium 10 Tage Zeitfenster nicht erfüllt	

**Ready degradability (Components)****beta-Caryophyllen**

Remarks No data available.

**Farnesol**

Remarks No data available.

**citral****(1R)-alpha-Pinene**

Remarks	The product is biodegradable.
Source	Kriterium 10 Tage Zeitfenster nicht erfüllt

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

Remarks No data available.

**citral**

Remarks No data available.

**(1R)-alpha-Pinene**

Remarks No data available.

Trade name: Cinnamomi zeylanici folii aeth. / Solmer

Substance number: 014160

Version: 4 / CH

Date revised: 22.05.2025

Replaces Version: 3 / CH

Print date: 22.05.25

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

Remarks No data available.

**citral**

Remarks No data available.

**(1R)-alpha-Pinene**

Remarks No data available.

**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 (log value)**

Remarks not determined

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

log Pow 2.7

**citral**

log Pow 2.9

Temperature 25 °C

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

Remarks No data available

**citral**

Remarks No data available

**(1R)-alpha-Pinene**

Remarks No data available

**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.

**Results of PBT and vPvB assessment \*\*\***

The product contains no PBT substances

The product contains no vPvB substances.

**12.6 Endocrine disrupting properties****Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

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

Hazard for drinking water supplies. Harmful to aquatic organisms.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Trade name: Cinnamomi zeylanici folii aeth. / Solmer

Substance number: 014160

Version: 4 / CH

Date revised: 22.05.2025

Replaces Version: 3 / CH

Print date: 22.05.25

**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 \*\*\***

	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. (benzyl benzoate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (benzyl benzoate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (benzyl benzoate)
14.3. Transport hazard class(es)	9	9	9
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

WGK 3

(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**

Trade name: Cinnamomi zeylanici folii aeth. / Solmer

Substance number: 014160

Version: 4 / CH

Date revised: 22.05.2025

Replaces Version: 3 / CH

Print date: 22.05.25

**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.
H331	Toxic if inhaled.
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**

Acute Tox. 3	Acute toxicity, Category 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 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. 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.