

Trade name: Rosae aetheroleum verum

Substance number: 015550

Version: 5 / CH

Date revised: 07.09.2016

Replaces Version: 4 / CH

Print date: 07.09.16

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

### **1.1. Product identifier**

Rosae aetheroleum verum

Item No. 01555000

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

CAS-No. 8007-01-0

EINECS-No. 290-260-3

INCI Rosa damascena

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

#### **Address**

Hänseler AG

Industriestrasse 35

9101 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

Skin Sens. 1 H317

Eye Dam. 1 H318

Aquatic Chronic 3 H412

Muta. 2 H341

Carc. 2 H351

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

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

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

Trade name: Rosae aetheroleum verum

Substance number: 015550

Version: 5 / CH

Date revised: 07.09.2016

Replaces Version: 4 / CH

Print date: 07.09.16

H412 Harmful to aquatic life with long lasting effects.

H341 Suspected of causing genetic defects.

H351 Suspected of causing 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.

P310 Immediately call a POISON CENTER or doctor.

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

contains Geraniol;citronellol;Eugenol;beta-Pinene, not specified;Citral;(R)-p-mentha-1,8-diene;4-allylveratrole (Methyl eugenol);Farnesol

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

Rosae aetheroleum verum

Essential oil

**Hazardous ingredients (Regulation (EC) No. 1272/2008) \*\*\*****citronellol**

CAS No. 106-22-9

EINECS no. 203-375-0

Concentration &gt;= 50 %

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

Skin Irrit. 2 H315

Skin Sens. 1B H317

Eye Irrit. 2 H319

**Geraniol**

CAS No. 106-24-1

EINECS no. 203-377-1

Concentration &gt;= 10 &lt; 25 %

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

Skin Irrit. 2 H315

Skin Sens. 1 H317

Eye Dam. 1 H318

**nerol**

CAS No. 106-25-2

EINECS no. 203-378-7

Concentration &gt;= 1 &lt; 10 %

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

Skin Irrit. 2 H315

**4-allylveratrole (Methyl eugenol)**

CAS No. 93-15-2

EINECS no. 202-223-0

Concentration &gt;= 1 &lt; 6.2 %

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

Acute Tox. 4 H302

Muta. 2 H341

Carc. 2 H351

Trade name: Rosae aetheroleum verum

Substance number: 015550

Version: 5 / CH

Date revised: 07.09.2016

Replaces Version: 4 / CH

Print date: 07.09.16

**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	

**geranyl acetate**

CAS No.	105-87-3			
EINECS no.	203-341-5			
Concentration	>= 1	<	10	%
Classification (Regulation (EC) No. 1272/2008)				
	Aquatic Chronic 2		H411	

**2-Phenylethanol**

CAS No.	60-12-8			
EINECS no.	200-456-2			
Concentration	>= 1	<	3.8	%
Classification (Regulation (EC) No. 1272/2008)				
	Acute Tox. 4		H302	
	Eye Irrit. 2		H319	

**Eugenol**

CAS No.	97-53-0			
EINECS no.	202-589-1			
Concentration	>= 1	<	10	%
Classification (Regulation (EC) No. 1272/2008)				
	Skin Sens. 1B		H317	
	Eye Irrit. 2		H319	

**beta-Pinene, not specified**

CAS No.	127-91-3			
EINECS no.	204-872-5			
Concentration	>= 1	<	10	%
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 3		H226	
	Skin Sens. 1		H317	
	Asp. Tox. 1		H304	
	Aquatic Acute 1		H400	
	Aquatic Chronic 1		H410	

**Citral**

CAS No.	5392-40-5			
EINECS no.	226-394-6			
Concentration	>= 1	<	3.1	%
Classification (Regulation (EC) No. 1272/2008)				
	Skin Irrit. 2		H315	
	Skin Sens. 1		H317	
	Eye Irrit. 2		H319	

**Farnesol**

CAS No.	4602-84-0
EINECS no.	225-004-1

Trade name: Rosae aetheroleum verum

Substance number: 015550

Version: 5 / CH

Date revised: 07.09.2016

Replaces Version: 4 / CH

Print date: 07.09.16

Concentration	>=	1	<	10	%
Classification (Regulation (EC) No. 1272/2008)					
		Skin Irrit. 2		H315	
		Skin Sens. 1		H317	
		Eye Irrit. 2		H319	

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

CAS No. 5989-27-5

EINECS no. 227-813-5

Concentration			<	1	%
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Classification (Regulation (EC) No. 1272/2008)

Aquatic Chronic 1 H410

Aquatic Acute 1 H400

Flam. Liq. 3 H226

Skin Irrit. 2 H315

Skin Sens. 1 H317

Asp. Tox. 1 H304

Additional remarks:

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

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

**Further ingredients \*\*\*****Ethanol**

CAS No. 64-17-5

EINECS no. 200-578-6

Concentration	>=	1	<	10	%
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Advice: [4]

Classification F, R11

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

Flam. Liq. 2 H225

**Advice:**

[4] Voluntary information

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

Ensure supply of fresh air. 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.). Eye doctor.

**After ingestion**

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

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

Trade name: Rosae aetheroleum verum

Substance number: 015550

Version: 5 / CH

Date revised: 07.09.2016

Replaces Version: 4 / CH

Print date: 07.09.16

Carbon dioxide, Dry chemical extinguisher, Foam

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

In case of combustion, evolution of health hazardous partially burned gases. Carbon monoxide (CO)

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

Use self-contained breathing apparatus.

**Other information**

Cool endangered containers with water spray jet.

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

Do not inhale vapours. Keep away from sources of ignition - No smoking. Ensure adequate ventilation.

**6.2. Environmental precautions**

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the subsoil/soil. Do not allow to enter drains or waterways.

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

Take up with absorbent material (eg sand, kieselguhr). Send in suitable containers for recovery or 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). Keep away sources of ignition. Procure extinguisher

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

Use glass containers. Use aluminium containers.

**Further information on storage conditions**

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

**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 <sup>3</sup>	7	ppm(V)
Short term exposure limit	80	mg/m <sup>3</sup>	14	ppm(V)
Pregnancy group: S; Status: 2014				

**Ethanol**

List	SUVA			
Type	MAK			
Value	960	mg/m <sup>3</sup>	500	ppm(V)
Short term exposure limit	1920	mg/m <sup>3</sup>	1000	ppm(V)
Pregnancy group: S; Status: 2014				

Trade name: Rosae aetheroleum verum

Substance number: 015550

Version: 5 / CH

Date revised: 07.09.2016

Replaces Version: 4 / CH

Print date: 07.09.16

## 8.2. Exposure controls

### General protective and hygiene measures

Provide adequate ventilation.

### Respiratory protection

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

### Hand protection

Gloves

### 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

<b>Form</b>	Liquid		
<b>Colour</b>	yellow		
<b>Colour</b>	yellow-green		
<b>Flash point</b>			
Value	67		°C
<b>Upper/lower flammability or explosive limits</b>			
Remarks	not determined		
<b>Vapour pressure</b>			
Remarks	not determined		
<b>Density</b>			
Value	0.8480	to	0.8720 g/cm <sup>3</sup>
<b>Solubility(ies)</b>			
Remarks	not determined		
<b>Partition coefficient: n-octanol/water</b>			
<b>Rosae aetheroleum verum</b>			
Remarks	not determined		
<b>Viscosity</b>			
Remarks	not determined		

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No decomposition if stored and applied as directed.

### 10.2. Chemical stability

No decomposition if stored and applied as directed.

### 10.3. Possibility of hazardous reactions

No decomposition if stored and applied as directed.

### 10.4. Conditions to avoid

Keep away from sources of heat and ignition.

### 10.5. Incompatible materials

Trade name: Rosae aetheroleum verum

Substance number: 015550

Version: 5 / CH

Date revised: 07.09.2016

Replaces Version: 4 / CH

Print date: 07.09.16

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

**10.6. Hazardous decomposition products**

Carbon monoxide

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

ATE	5'319.96	mg/kg
	92	

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

**Acute oral toxicity (Components)****Geraniol**

Species	rat	
LD50	3600	mg/kg

**citronellol**

Species	rat	
LD50	3450	mg/kg

**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

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

Species	rabbit
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Trade name: Rosae aetheroleum verum

Substance number: 015550

Version: 5 / CH

Date revised: 07.09.2016

Replaces Version: 4 / CH

Print date: 07.09.16

<b>citronellol</b>	>	5000	mg/kg
Species		rabbit	
LD50		2650	mg/kg
<b>(R)-p-mentha-1,8-diene</b>			
Species		rabbit	
LD50	>	5000	mg/kg
<b>Citral</b>			
Species		Rats (male/female)	
	>	2000	mg/kg

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

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

**Skin corrosion/irritation****Rosae aetheroleum verum**

Remarks Irritating to skin.

**Serious eye damage/irritation****Rosae aetheroleum verum**

Remarks Risk of serious damage to eyes.

**Sensitization****Rosae aetheroleum verum**

Remarks May cause sensitization by skin contact.

**Sensitization (Components)****citronellol**

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

**(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 (Components)****Citral**

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

**Citral**

Species mouse  
 Remarks negative

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

Species mouse  
 evaluation Essential points have been found for a possible cancer causing effects in



Trade name: Rosae aetheroleum verum

Substance number: 015550

Version: 5 / CH

Date revised: 07.09.2016

Replaces Version: 4 / CH

Print date: 07.09.16

Remarks 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 (Components)**

##### **Geraniol**

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

##### **citronellol**

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

##### **Eugenol**

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

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

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

##### **Citral**

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

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

##### **citronellol**

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

##### **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		

#### **Algae toxicity (Components)**

##### **citronellol**

EC50	2.4			mg/l
Duration of exposure	72	h		

#### **Bacteria toxicity (Components)**

Trade name: Rosae aetheroleum verum

Substance number: 015550

Version: 5 / CH

Date revised: 07.09.2016

Replaces Version: 4 / CH

Print date: 07.09.16

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

Species	activated sludge	
EC50	3.94	mg/l
Method	OECD 209	

**12.2. Persistence and degradability****Biodegradability (Components)****(R)-p-mentha-1,8-diene**

Value	71	%
evaluation	Readily biodegradable	

**Citral**

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

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

Value	2050	mg/g
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**12.3. Bioaccumulative potential****Partition coefficient: n-octanol/water****Rosae aetheroleum verum**

Remarks	not determined
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**Octanol/water partition coefficient (log Pow) (Components)****Eugenol**

log Pow	2.7
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**(R)-p-mentha-1,8-diene**

log Pow	4.2
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**Citral**

log Pow	2.9	
Temperature	25	°C

**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**

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 \*\*\*****14.1. UN number**

UN 3082

**14.2. UN proper shipping name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (citronellol)

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

Trade name: Rosae aetheroleum verum

Substance number: 015550

Version: 5 / CH

Date revised: 07.09.2016

Replaces Version: 4 / CH

Print date: 07.09.16

Class	9
Label	9

**14.4. Packing group**

Packing group	III
Limited Quantity	5 I
Transport category	3

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS	
Tunnel restriction code	E

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

UN 3082

**14.2. UN proper shipping name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (citronello)

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

Class	9
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**14.4. Packing group**

Packing group	III
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**14.5. Environmental hazards**

Marine Pollutant

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

UN 3082

**14.2. UN proper shipping name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (citronello)

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

Class	9
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**14.4. Packing group**

Packing group	III
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**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 (Germany)	WGK 3
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Remarks	Classification according to Annex 4 VwVwS
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**SECTION 16: Other information****R-phrases listed in Chapter 3**

10	Flammable.
22	Harmful if swallowed.
36	Irritating to eyes.
38	Irritating to skin.
40	Limited evidence of a carcinogenic effect.
41	Risk of serious damage to eyes.
43	May cause sensitization by skin contact.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the

Trade name: Rosae aetheroleum verum

Substance number: 015550

Version: 5 / CH

Date revised: 07.09.2016

Replaces Version: 4 / CH

Print date: 07.09.16

65 aquatic environment.  
 Harmful: may cause lung damage if swallowed.  
 68 Possible risk of irreversible effects.

**Hazard statements listed in Chapter 3**

H226 Flammable liquid and vapour.  
 H302 Harmful if swallowed.  
 H304 May be fatal if swallowed and enters airways.  
 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.  
 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  
 Asp. Tox. 1 Aspiration hazard, Category 1  
 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  
 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.