

Trade name: Aurantii floris aeth synth

Substance number: 013600

Version: 5 / CH

Date revised: 16.09.2019

Replaces Version: 4 / CH

Print date: 16.09.19

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

1.1. Product identifier

Aurantii floris aeth synth

Item No. 01360000

Substance / product identification

INCI Parfum

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

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

Warning

Hazard statements ***

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Trade name: Aurantii floris aeth synth

Substance number: 013600

Version: 5 / CH

Date revised: 16.09.2019

Replaces Version: 4 / CH

Print date: 16.09.19

H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements ***

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264.1 Wash hands thoroughly after handling.
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.
P501.3 Disposal in compliance with local and national regulations.

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

contains *** 3,7-Dimethyl-1,6-octadien-3-ol; isoeugenol; cinnamyl alcohol; (R)-p-mentha-1,8-diene; Geraniol; Neryl acetate; alpha-Pinene, not specified; beta-Pinene, not specified; nerol; linalyl acetate; 7-hydroxycitronellal; geranyl acetate

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

Perfume oil

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

CAS No.	78-70-6				
EINECS no.	201-134-4				
Concentration	>=	10	<	25	%
Classification (Regulation (EC) No. 1272/2008)					
	Skin Irrit. 2			H315	
	Eye Irrit. 2			H319	
	Skin Sens. 1B			H317	

linalyl acetate

CAS No.	115-95-7				
EINECS no.	204-116-4				
Concentration	>=	10	<	25	%
Classification (Regulation (EC) No. 1272/2008)					
	Skin Irrit. 2			H315	
	Skin Sens. 1B			H317	
	Eye Irrit. 2			H319	

7-hydroxycitronellal

CAS No.	107-75-5				
EINECS no.	203-518-7				
Concentration	>=	1	<	10	%
Classification (Regulation (EC) No. 1272/2008)					
	Skin Sens. 1			H317	
	Eye Irrit. 2			H319	

2-Phenylethanol

CAS No.	60-12-8				
EINECS no.	200-456-2				
Concentration	>=	1	<	9.6	%
Classification (Regulation (EC) No. 1272/2008)					
	Acute Tox. 4			H302	
	Eye Irrit. 2			H319	

Trade name: Aurantii floris aeth synth

Substance number: 013600

Version: 5 / CH

Date revised: 16.09.2019

Replaces Version: 4 / CH

Print date: 16.09.19

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

CAS No. 5989-27-5
 EINECS no. 227-813-5
 Concentration \geq 1 < 10 %
 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 1 M = 1

CLP Regulation (EC) No 1272/2008, Annex VI, Note C
 DSD Directive 67/548/EEC, Annex I, Note C

Benzyl benzoate

CAS No. 120-51-4
 EINECS no. 204-402-9
 Concentration \geq 1 < 4.7 %
 Classification (Regulation (EC) No. 1272/2008)
 Acute Tox. 4 H302
 Aquatic Acute 1 H400
 Aquatic Chronic 2 H411

nerol

CAS No. 106-25-2
 EINECS no. 203-378-7
 Concentration \geq 1 < 3 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Irrit. 2 H315
 Skin Sens. 1B H317
 Eye Dam. 1 H318

isoeugenol

CAS No. 97-54-1
 EINECS no. 202-590-7
 Concentration \geq 1 < 3.1 %
 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

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

Trade name: Aurantii floris aeth synth

Substance number: 013600

Version: 5 / CH

Date revised: 16.09.2019

Replaces Version: 4 / CH

Print date: 16.09.19

Geraniol

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

geranyl acetate

CAS No.	105-87-3		
EINECS no.	203-341-5		
Concentration		< 1	%
Classification (Regulation (EC) No. 1272/2008)			
	Skin Irrit. 2	H315	
	Skin Sens. 1	H317	
	Aquatic Chronic 3	H412	

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

CAS No.	123-35-3		
EINECS no.	204-622-5		
Concentration		< 1	%
Classification (Regulation (EC) No. 1272/2008)			
	Flam. Liq. 3	H226	
	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

Neryl acetate

CAS No.	141-12-8		
EINECS no.	205-459-2		
Concentration		< 1	%
Classification (Regulation (EC) No. 1272/2008)			
	Skin Sens. 1B	H317	

beta-Pinene, not specified

CAS No.	127-91-3		
EINECS no.	204-872-5		
Concentration		< 1	%
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 M = 1
1

alpha-Pinene, not specified

Trade name: Aurantii floris aeth synth

Substance number: 013600

Version: 5 / CH

Date revised: 16.09.2019

Replaces Version: 4 / CH

Print date: 16.09.19

CAS No. 80-56-8
 EINECS no. 201-291-9
 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 1 M = 1

Further ingredients *****3,7-dimethylocta-1,3,6-triene**

CAS No. 13877-91-3
 EINECS no. 237-641-2
 Concentration < 1 %
 Advice: [4]
 Classification (Regulation (EC) No. 1272/2008)
 Flam. Liq. 3 H226
 Asp. Tox. 1 H304
 Aquatic Chronic 3 H412

Phenethyl acetate

CAS No. 103-45-7
 EINECS no. 203-113-5
 Concentration < 1 %
 Advice: [4]
 Classification (Regulation (EC) No. 1272/2008)
 Eye Dam. 1 H318

beta-Caryophyllen

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

2-benzylideneheptanal

CAS No. 122-40-7
 EINECS no. 204-541-5
 Concentration < 1 %
 Advice: [4]
 Classification (Regulation (EC) No. 1272/2008)
 Skin Irrit. 2 H315
 Eye Irrit. 2 H319
 STOT SE 3 H335

p-mentha-1,4-diene

CAS No. 99-85-4
 EINECS no. 202-794-6

Trade name: Aurantii floris aeth synth

Substance number: 013600

Version: 5 / CH

Date revised: 16.09.2019

Replaces Version: 4 / CH

Print date: 16.09.19

Concentration < 1 %
[4]

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

Asp. Tox. 1

Flam. Liq. 3

p-mentha-1,3-diene

CAS No. 99-86-5

EINECS no. 202-795-1

Concentration < 1 %
[4]

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

Asp. Tox. 1

Flam. Liq. 3

Acute Tox. 4

Aquatic Chronic 2

Cinnamaldehyde

CAS No. 104-55-2

EINECS no. 203-213-9

Concentration < 1 %
Advice: [4]

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

Acute Tox. 4 H312

Skin Irrit. 2 H315

Skin Sens. 1 H317

Eye Irrit. 2 H319

Note

[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.). Take medical treatment.

After ingestion

Rinse mouth thoroughly with water. Summon a doctor immediately.

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

Carbon dioxide, Dry chemical extinguisher, Foam

Non suitable extinguishing media

Water spray jet

Trade name: Aurantii floris aeth synth

Substance number: 013600

Version: 5 / CH

Date revised: 16.09.2019

Replaces Version: 4 / CH

Print date: 16.09.19

5.2. Special hazards arising from the substance or mixture

Keep away sources of ignition.

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**

Avoid contact with eyes and skin. Do not inhale vapours. Ensure adequate ventilation.

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). Send in suitable containers for recovery or disposal. Ensure adequate ventilation. Dispose of absorbed material in accordance with the regulations.

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 from heat and sources of ignition. Procure extinguisher

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

Keep container tightly closed in a well-ventilated place. Use glass containers. Use aluminium containers. Use containers with inside laquer.

Storage classes

Storage class according to TRGS 510	10	Flammable liquids
Storage category (Switzerland)	10/12	Other liquid hazardous substances

Further information on storage conditions

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 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**

Do not eat, drink or smoke during work time. Do not inhale vapours. Wash hands and face after work. Avoid contact with skin.

Respiratory protection

Trade name: Aurantii floris aeth synth

Substance number: 013600

Version: 5 / CH

Date revised: 16.09.2019

Replaces Version: 4 / CH

Print date: 16.09.19

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

Hand protection

Chemical resistant gloves

Eye protection

Safety glasses

Body protection

Clothing as usual in the chemical industry.

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

Form	liquid
Colour	yellow to red-brown
Odour	sharp
Odour	sweetish
Odour	flowery
Melting point	
Remarks	not determined
Initial boiling point and boiling range	
Remarks	not determined
Flash point	
Value	>= 70 °C
Upper/lower flammability or explosive limits	
Remarks	not determined
Vapour pressure	
Remarks	not determined
Density	
Value	0.975 to 0.987 g/ml
Temperature	20 °C
Remarks	Relative Density according specification
Solubility(ies)	
Remarks	not determined
Partition coefficient: n-octanol/water	
Remarks	not determined
Viscosity	
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. Flames

Trade name: Aurantii floris aeth synth

Substance number: 013600

Version: 5 / CH

Date revised: 16.09.2019

Replaces Version: 4 / CH

Print date: 16.09.19

10.5. Incompatible materials

strong acids, Reactions with alkalies. Oxidising agents

10.6. Hazardous decomposition products

Carbon monoxide

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

ATE	3'628.44	mg/kg
	7	
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)	

(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

Acute dermal toxicity

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

Acute dermal toxicity (Components)**Geraniol**

Species	rabbit	
	> 5000	mg/kg

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

Species	rabbit	
LD50	> 5000	mg/kg

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

Species	rabbit	
LD50	> 5000	mg/kg

Skin corrosion/irritation

Remarks	Irritating to skin.
---------	---------------------

Trade name: Aurantii floris aeth synth

Substance number: 013600

Version: 5 / CH

Date revised: 16.09.2019

Replaces Version: 4 / CH

Print date: 16.09.19

Serious eye damage/irritation

evaluation irritant - risk of serious damage to 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

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

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

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

Species rat
 evaluation Can cause malformations.

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

Remarks No data available.

Fish toxicity (Components)**Geraniol**

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

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

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

Daphnia toxicity

Remarks No data available.

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

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

Algae toxicity

Remarks No data available.

Bacteria toxicity

Remarks No data available.

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

Species activated sludge
 EC50 3.94 mg/l

Trade name: Aurantii floris aeth synth

Substance number: 013600

Version: 5 / CH

Date revised: 16.09.2019

Replaces Version: 4 / CH

Print date: 16.09.19

Method OECD 209

12.2. Persistence and degradability**Biodegradability**

Remarks No data available.

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

Value 76 %

Duration of test 28 d
evaluation Readily biodegradable**(R)-p-mentha-1,8-diene**

Value 71 %

evaluation Readily biodegradable

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

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

log Pow 4.2

12.4. Mobility in soil**General information**

No data available

12.5. Results of PBT and vPvB assessment**Evaluation of persistence and bioaccumulation potential *****

The Substance doesn't meets PBT/vPvB-criteria

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

EWC waste code Should not be released into the sanitary sewer system.

Dispose of as unused product.

SECTION 14: Transport information

Trade name: Aurantii floris aeth synth

Substance number: 013600

Version: 5 / CH

Date revised: 16.09.2019

Replaces Version: 4 / CH

Print date: 16.09.19

	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. (linalyl acetate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (linalyl acetate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (linalyl acetate)
14.3. Transport hazard class(es)	9	9	9
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 I		
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

VOC

VOC (CH) 5.1761 %

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.
 H318 Causes serious eye damage.

Trade name: Aurantii floris aeth synth

Substance number: 013600

Version: 5 / CH

Date revised: 16.09.2019

Replaces Version: 4 / CH

Print date: 16.09.19

H319	Causes serious eye irritation.
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. 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
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
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.