

Trade name: Orangen-Aroma 1801 / Pharmaton

Substance number: 016815

Version: 4 / CH

Date revised: 13.05.2020

Replaces Version: 3 / CH

Print date: 13.05.20

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

1.1. Product identifier

Orangen-Aroma 1801 / Pharmaton

Item No. 01681500

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)

Flam. Liq. 3	H226
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
Carc. 1B	H350
Asp. Tox. 1	H304
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

Danger

Hazard statements ***

H226

Flammable liquid and vapour.

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H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H350	May cause cancer.
H304	May be fatal if swallowed and enters airways.
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 exposed 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 ***	3,7-Dimethyl-1,6-octadien-3-ol; (R)-p-mentha-1,8-diene; Citral; citronellal; 4-isopropenylcyclohex-1-enecarbaldehyde; alpha-Pinene, not specified; beta-Pinene, not specified; 7-Methyl-3-methylenocta-1,6-dien; Acetaldehyde
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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****(R)-p-mentha-1,8-diene**

CAS No.	5989-27-5
EINECS no.	227-813-5
Concentration	>= 50 %
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

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)	

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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

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

Benzyl alcohol

CAS No.	100-51-6
EINECS no.	202-859-9
Concentration	>= 1 < 9.2 %
Classification (Regulation (EC) No. 1272/2008)	
Acute Tox. 4	H302
Acute Tox. 4	H332

Citral

CAS No.	5392-40-5
EINECS no.	226-394-6
Concentration	>= 1 < 9.2 %
Classification (Regulation (EC) No. 1272/2008)	
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317

citronellal

CAS No.	106-23-0
EINECS no.	203-376-6
Concentration	< 1 %
Classification (Regulation (EC) No. 1272/2008)	
Skin Irrit. 2	
Skin Sens. 1	
Flam. Liq. 4	
Aquatic Chronic 2	

4-isopropenylcyclohex-1-enecarbaldehyde

CAS No.	2111-75-3
EINECS no.	218-302-8
Concentration	< 1 %
Classification (Regulation (EC) No. 1272/2008)	
Skin Sens. 1B	H317

Dodecan-1-ol

CAS No.	112-53-8
EINECS no.	203-982-0

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Concentration < 1 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Irrit. 2 H315
 Aquatic Acute 1 H400
 Aquatic Chronic 1 H410

alpha-Pinene, not specified

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

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 1 M = 1

Acetaldehyde

CAS No. 75-07-0

EINECS no. 200-836-8

Concentration < 1 %

Classification (Regulation (EC) No. 1272/2008)
 Flam. Liq. 1 H224
 Eye Irrit. 2 H319
 STOT SE 3 H335
 Muta. 2 H341
 Carc. 1B H350

Further ingredients *****Decanal**

CAS No. 112-31-2

EINECS no. 203-957-4

Concentration >= 1 < 10 %

Advice: [4]

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Octanal

CAS No.	124-13-0				
EINECS no.	204-683-8				
Concentration	>=	1	<	10	%
Advice:	[4]				

Dodecanal

CAS No.	112-54-9				
EINECS no.	203-983-6				
Concentration			<	1	%
Advice:	[4]				

(R)-3,7-Dimethyloct-6-en-1-ol

CAS No.	1117-61-9				
EINECS no.	214-250-5				
Concentration			<	1	%
Advice:	[4]				

Nonanal

CAS No.	124-19-6				
EINECS no.	204-688-5				
Concentration			<	1	%
Advice:	[4]				
Classification (Regulation (EC) No. 1272/2008)	Aquatic Chronic 3		H412		

Note

[4] Voluntary information

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

Remove affected person from danger area, lay him down.

After inhalation

Remove the casualty into fresh air and keep him calm.

After skin contact

Wash off immediately with soap and water and rinse well. Consult a doctor if skin irritation persists. Remove contaminated, soaked clothing immediately and dispose of safely.

After eye contact

In case of contact with the eyes rinse thoroughly with plenty of water or with an eye-cleaning solution.

After ingestion

Turn a vomiting person lying on his back onto his side. Summon a doctor immediately. Do not induce vomiting.

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

Water mist, Alcohol-resistant foam, Dry chemical extinguisher, Carbon dioxide

Non suitable extinguishing media

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Full water jet

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

Use self-contained breathing apparatus.

Other information

Do not inhale explosions- and combustion gases. Cool endangered containers with water spray jet. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Collect contaminated fire-fighting water separately, must not be discharged into the drains.

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

Ensure adequate ventilation. Wear protective equipment. Keep away sources of ignition.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. In case the product spills into sewage waters, immediately inform the authorities. Suppress gases/vapours/mists with water spray jet.

6.3. Methods and material for containment and cleaning up

Prevent spread over a wide area (by containment with sand or earth).

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Wear protective equipment

Advice on protection against fire and explosion

Do not smoke. Use explosion-proof equipment/fittings and non-sparking tools. Avoid dust formation. Take action to prevent static discharges. Keep away from sources of ignition.

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

Keep only in original packaging. Keep tightly closed in a dry and cool place.

Hints on storage assembly

None known

Storage classes

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

Further information on storage conditions

Protect from heat and direct sunlight. Keep in a cool 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 ³	7	ppm(V)
Short term exposure limit	80	mg/m ³	14	ppm(V)

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Pregnancy group: S; Status: 2017; Remarks: S SSc; LeberKT AN

8.2. Exposure controls**General protective and hygiene measures**

Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Avoid contact with skin.

Respiratory protection

Not necessary.

Hand protection

Chemical resistant gloves

Appropriate Material

Butyl rubber

Breakthrough time

> 480 min

Eye protection

Safety glasses

Body protection

Light protective clothing

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

Liquid

Colour

yellow to orange

Odour

characteristic

Flash point

Value

47

°C

Vapour pressure

Value

6

kPa

Temperature

50

°C

Density

Value

0.8540

to

0.8740

g/cm³

Temperature

20

°C

Remarks

Relative Density according specification

Solubility in water

Remarks

insoluble

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

No hazardous reactions known.

10.5. Incompatible materials

No decomposition if stored and applied as directed.

10.6. Hazardous decomposition products

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None under normal use.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

ATE	5'399.37 02	mg/kg
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Method	calculated value (Regulation (EC) No. 1272/2008)	
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Acute oral toxicity (Components)

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

(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

Benzyl alcohol

Species	rat	
LD50	1230	mg/kg
Source	Food and Cosmetics Toxicology. Vol. 2, Pg. 327, 1964.	

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
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Method	calculated value (Regulation (EC) No. 1272/2008)	
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Acute dermal toxicity (Components)

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

Benzyl alcohol

Species	rabbit	
LD50	2000	mg/kg

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Source Raw Material Data Handbook, Vol. 1: Organic Solvents, 1974. Vol. 1, Pg. 6, 1974.

Citral

Species Rats (male/female)
> 2000 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)

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.

Benzyl alcohol

Species guinea pig
evaluation non-sensitizing

Citral

Species mouse
evaluation sensitizing
Method OECD 429

Mutagenicity (Components)**Benzyl alcohol**

evaluation No experimental indications on genotoxicity in vivo found.

Citral

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

Citral

Species mouse
Remarks negative

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

Species rat
evaluation Can cause malformations.

Other information

No toxicological data are available.

SECTION 12: Ecological information *****12.1. Toxicity****Fish toxicity (Components)****(R)-p-mentha-1,8-diene**

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

Benzyl alcohol

LC50	460		mg/l
Duration of exposure	96	h	

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

Value	76		%
Duration of test evaluation	28	d	
	Readily biodegradable		

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

Value evaluation	71		%
	Readily biodegradable		

Citral

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

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	

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

log Pow	4.2		
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Citral

log Pow	2.9		
Temperature	25	°C	

12.4. Mobility in soil

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General information

No data available

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

The product contains no PBT or vPvB substances.

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

Ecological data are not available.







SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Recovery or recycling, if possible. Otherwise: combustion in incineration plant.
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	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	D/E		
14.1. UN number	1197	1197	1197
14.2. UN proper shipping name	EXTRACTS, FLAVOURING, LIQUID ((R)-p-mentha-1,8-diene, Acetaldehyde)	EXTRACTS, FLAVOURING, LIQUID ((R)-p-mentha-1,8-diene, Acetaldehyde)	EXTRACTS, FLAVOURING, LIQUID ((R)-p-mentha-1,8-diene, Acetaldehyde)
14.3. Transport hazard class(es)	3	3	3
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

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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

SECTION 16: Other information

Hazard statements listed in Chapter 3

H224	Extremely flammable liquid and vapour.
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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory 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.

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. 1B	Carcinogenicity, Category 1B
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 1	Flammable liquid, Category 1
Flam. Liq. 3	Flammable liquid, Category 3
Flam. Liq. 4	Flam. Liq. 4
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
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

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.