

Trade name: Orangen-Aroma 1801 / Ginsana SA

Substance number: 016815

Version: 5 / CH

Date revised: 10.06.2025

Replaces Version: 4 / CH

Print date: 17.06.25

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

1.1. Product identifier

Orangen-Aroma 1801 / Ginsana SA

Item No. 01681500

Substance / product identification

UFI ANS7-DSUY-U00G-494V

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 3 H412

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008
For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

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Hazard statements ***

H226	Flammable liquid and vapour.
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; citronellal; 7-Methyl-3-methylenocta-1,6-dien; (R)-p-mentha-1,8-diene; citral; citronellol; d-carvone; alpha-Pinene, not specified; beta-Pinene, not specified; (+)-3-Carene, not specified; 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

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 *******(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. 1B	H317
	Aquatic Acute 1	H400
	Aquatic Chronic 3	H412

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

Aquatic Acute 1 M = 1

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p-menth-1-en-8-ol

CAS No. 98-55-5
 EINECS no. 202-680-6
 Concentration \geq 1 < 10 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Irrit. 2 H315
 Eye Irrit. 2 H319

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

CAS No. 78-70-6
 EINECS no. 201-134-4
 Concentration \geq 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
 EINECS no. 226-394-6
 Concentration \geq 1 < 10 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Irrit. 2 H315
 Eye Irrit. 2 H319
 Skin Sens. 1 H317

ATE oral 345 mg/kg

benzyl alcohol

CAS No. 100-51-6
 EINECS no. 202-859-9
 Registration no. 01-2119492630-38-0021
 Concentration \geq 1 < 10 %
 Classification (Regulation (EC) No. 1272/2008)
 Acute Tox. 4 H302
 Eye Irrit. 2 H319
 Acute Tox. 4 H332

ATE oral 1'230 mg/kg
 ATE dermal 2'000 mg/kg
 cATpE inhalative, Dust/Mist 1.5 mg/l
 cATpE inhalative, Vapors 11 mg/l

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

CAS No. 123-35-3
 EINECS no. 204-622-5
 Concentration \geq 1 < 2.5 %
 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 2 H411

Concentration limits (Regulation (EC) No. 1272/2008)
 M = 1

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p-mentha-1,4-diene

CAS No. 99-85-4
 EINECS no. 202-794-6
 Concentration \geq 0.1 < 1 %
 Classification (Regulation (EC) No. 1272/2008)
 Flam. Liq. 3 H226
 Repr. 2 H361
 Aquatic Chronic 2 H411

citronellal

CAS No. 106-23-0
 EINECS no. 203-376-6
 Concentration \geq 0.1 < 1 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Irrit. 2
 Skin Sens. 1
 Flam. Liq. 4
 Aquatic Chronic 2

citronellol

CAS No. 106-22-9
 EINECS no. 203-375-0
 Concentration \geq 0.1 < 1 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Irrit. 2 H315
 Skin Sens. 1B H317
 Eye Irrit. 2 H319

d-carvone

CAS No. 99-49-0
 EINECS no. 202-759-5
 Concentration \geq 0.1 < 1 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Sens. 1B H317

alpha-Pinene, not specified

CAS No. 80-56-8
 EINECS no. 201-291-9
 Concentration \geq 0.25 < 1 %
 Classification (Regulation (EC) No. 1272/2008)
 Flam. Liq. 3 H226
 Asp. Tox. 1 H304
 Skin Irrit. 2 H315
 Skin Sens. 1B H317
 Aquatic Acute 1 H400
 Aquatic Chronic 1 H410
 Acute Tox. 4 H302

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

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

beta-Pinene, not specified

CAS No. 127-91-3
 EINECS no. 204-872-5

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Concentration \geq 0.25 < 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

Dodecan-1-ol

CAS No. 112-53-8

EINECS no. 203-982-0

Concentration \geq 0.1 < 1 %

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

Eye Irrit. 2	H319
Aquatic Acute 1	H400
Aquatic Chronic 2	H411

acetaldehyde

CAS No. 75-07-0

EINECS no. 200-836-8

Concentration \geq 0.1 < 1 %

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

Flam. Liq. 1	H224
Eye Irrit. 2	H319
Muta. 2	H341
Carc. 1B	H350
STOT SE 3	H335

(+)-3-Carene, not specified

CAS No. 498-15-7

EINECS no. 207-856-6

Concentration \geq 0.1 < 0.25 %

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

Flam. Liq. 3	H226
Skin Sens. 1	H317
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Further ingredients *****Decanal**

CAS No. 112-31-2

EINECS no. 203-957-4

Concentration \geq 1 < 10 %

Advice: [4]

Octanal

CAS No. 124-13-0

EINECS no. 204-683-8

Concentration \geq 1 < 10 %

Advice: [4]

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Dodecanal

CAS No. 112-54-9

EINECS no. 203-983-6

Concentration < 1 %

Advice: [4]

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

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

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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)
Pregnancy group: S; Remarks: S SSc; LeberKT AN				

benzyl alcohol

List	SUVA			
Type	MAK			
Value	22	mg/m ³	5	ppm(V)
Remarks: H SSc; AW; NIOSH				

Derived No/Minimal Effect Levels (DNEL/DMEL)

benzyl alcohol

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	110	mg/m ³

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	22	mg/m ³

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Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	40	mg/kg/d

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	8	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	27	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	5.4	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Acute	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	20	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	4	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Acute	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	20	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	4	mg/kg/d

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

Type of value	PNEC	
Type	Freshwater	
Concentration	1	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	5.27	mg/kg
Type of value	PNEC	
Type	Saltwater	
Concentration	0.1	mg/l
Type of value	PNEC	
Type	Marine sediment	
Concentration	0.527	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0.456	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	39	mg/l

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**

Physical state	liquid, clear
Colour	yellow to orange
Odour	characteristic
Melting point	
Remarks	not determined
Boiling point or initial boiling point and boiling range	
Remarks	not determined

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Flammability

Flammable.

Flash point

Value 47 °C

Vapour pressure

Value 6 kPa

Temperature 50 °C

Method calculated

Density and/or relative densityValue 0.8540 to 0.8740 g/cm³

Temperature 20 °C

Remarks Relative Density according specification

9.2. Other information**Solubility in water**

Remarks insoluble

Oxidising properties

evaluation None known

Other information

Forms explosive mixture with air are possible.

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

No decomposition if stored and applied as directed.

10.6. Hazardous decomposition products

None under normal use.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**ATE 2'694.55 mg/kg
52

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

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

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Species	Rats (male/female)	
LOAEL	250	mg/kg
citronellol		
Species	rat	
LD50	3450	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
alpha-Pinene, not specified		
Species	rat	
	3700	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 alcohol		
Species	rat	
LD50	1230	mg/kg
Source	Food and Cosmetics Toxicology. Vol. 2, Pg. 327, 1964.	
benzyl alcohol		
Species	rat	
LD50	1620	mg/kg
Acute dermal toxicity		
ATE	> 10'000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	
Acute dermal toxicity (Components)		
7-Methyl-3-methylenocta-1,6-dien		
Species	rabbit	
LD50	> 5000	mg/kg
citronellol		
Species	rabbit	
LD50	2650	mg/kg
(R)-p-mentha-1,8-diene		
Species	rabbit	
LD50	> 5000	mg/kg
alpha-Pinene, not specified		
Species	rabbit	
LD50	> 5000	mg/kg
citral		
Species	Rats (male/female)	
	> 2000	mg/kg

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benzyl alcohol

Species	rabbit	
LD50	2000	mg/kg
Source	Raw Material Data Handbook, Vol. 1: Organic Solvents, 1974. Vol. 1, Pg. 6, 1974.	

Acute inhalational toxicity

ATE	15.0015	mg/l
Administration/Form	Dust/Mist	
Method	calculated value (Regulation (EC) No. 1272/2008)	
ATE	> 100	mg/l
Administration/Form	Vapors	
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute inhalative toxicity (Components)**citronellol**

Remarks	No data available.
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7-Methyl-3-methylenocta-1,6-dien

Remarks	No data available.
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(R)-p-mentha-1,8-diene

Remarks	No data available.
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citral

Remarks	No data available.
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Skin corrosion/irritation (Components)**citronellol**

Species	Human	
Duration of exposure	48	h
evaluation	irritant	
Remarks	Irritating to skin.	

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

Species	rabbit	
Observation Period	24	h
evaluation	irritant	

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

Species	rabbit	
Duration of exposure	4	h
evaluation	irritant	
Method	OECD 404	

alpha-Pinene, not specified

Species	Human
evaluation	irritant

citral

Species	rabbit
evaluation	irritant
Remarks	Irritating to skin.

benzyl alcohol

Species	rabbit
evaluation	slightly irritant
Method	OECD 404

Serious eye damage/irritation (Components)**citronellol**

Remarks	No data available.
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7-Methyl-3-methylenocta-1,6-dien

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Species
evaluation

rabbit
irritant

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

Species
evaluation

rabbit
non-irritant

Method
OECD 405

Remarks
No effect of irritation known

citral

Species
evaluation

rabbit
irritant

Method
OECD 405

Remarks
Irritates the eyes.

benzyl alcohol

Species
evaluation

rabbit
irritant - risk of serious damage to eyes

Duration of exposure
24 h

Method
OECD 405

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

Species
evaluation

mouse
non-sensitizing

Method
OECD 429

citronellol

Species
evaluation

mouse
sensitizing

Remarks
May cause sensitization by skin contact.

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

Species
evaluation

mouse
sensitizing

Method
OECD 429

Remarks
May cause sensitization by skin contact.

citral

Species
evaluation

mouse
sensitizing

Method
OECD 429

benzyl alcohol

Species
evaluation

guinea pig
non-sensitizing

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

Remarks
No data available.

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

Remarks
Not applicable

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

Remarks
No data available.

Mutagenicity (Components)**citronellol**

Remarks
No data available.

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

Species
evaluation

Salmonella typhimurium
No mutagenicity in the Ames-test.

Method
Ames test

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

Species mouse
 evaluation No mutagenicity in the micronucleus test.
 Remarks negative

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

Species mouse
 evaluation No experimental information on genotoxicity in vitro available.
 Method OECD 476
 Remarks negative

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

Species rat (male)
 evaluation No experimental indications on genotoxicity in vivo found.
 Remarks negative

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

Species hamster
 evaluation No experimental information on genotoxicity in vitro available.
 Method OECD 479

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

Species Salmonella typhimurium
 evaluation No experimental information on genotoxicity in vitro available.
 Method OECD 471
 Remarks negative

citral

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

citral

Species mouse
 Remarks negative

benzyl alcohol

evaluation No experimental indications on genotoxicity in vivo found.

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

Species rat
 evaluation Can cause malformations.

citronellol

Remarks No data available

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

Remarks No data available.

citral

Remarks No data available.

benzyl alcohol

evaluation No negative effects

Carcinogenicity (Components)**citronellol**

Remarks No data available.

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

Remarks No data available.

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

Species rat
 Remarks May cause cancer.

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Source	RTECS
(R)-p-mentha-1,8-diene	
Species	mouse
Remarks	Based on available data, the classification criteria are not met.
Source	RTECS

citral	
Remarks	No data available.

benzyl alcohol	
evaluation	No negative effects

Specific Target Organ Toxicity (STOT) (Components)

citronellol	
Remarks	Not applicable

(R)-p-mentha-1,8-diene	
Remarks	Not applicable

citral	
Remarks	Not applicable

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.

Other information

No toxicological data are available.

SECTION 12: Ecological information *****12.1. Toxicity****Fish toxicity (Components)**

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

7-Methyl-3-methylenocta-1,6-dien	
Remarks	No data available.

(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

benzyl alcohol	
Species	Fathead minnow (Pimephales promelas)
LC50	460 mg/l
Duration of exposure	96 h
Method	OECD 203

benzyl alcohol	
Species	Bluegill (Lepomis macrochirus)
LC50	10 mg/l

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Duration of exposure 96 h

Daphnia toxicity (Components)**citronellol**

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

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

Remarks No data available.

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

Species	Daphnia magna	
	0.307	mg/l
Duration of exposure	48	h
Method	OECD 202	

alpha-Pinene, not specified

Species	Daphnia magna	
EC50	41	mg/l
Duration of exposure	48	h

citral

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

benzyl alcohol

Species	Daphnia magna	
EC50	230	mg/l
Duration of exposure	48	h
Method	OECD 202	

benzyl alcohol

Species	Daphnia magna	
NOEC	51	mg/l
Duration of exposure	21	d

Algae toxicity (Components)**citronellol**

EC50	2.4	mg/l
Duration of exposure	72	h

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

Remarks No data available.

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

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

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

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

citral

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

benzyl alcohol

Species	Algae
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IC50	770		mg/l
Duration of exposure	72	h	

benzyl alcohol

Species	Raphidocelis subcapitata		
NOEC	310		mg/l
Duration of exposure	72	h	
Method	OECD 201		

Bacteria toxicity (Components)**citronellol**

Remarks	No data available.
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7-Methyl-3-methylenocta-1,6-dien

Remarks	No data available.
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(R)-p-mentha-1,8-diene

Species	activated sludge		
EC50	3.94		mg/l
Method	OECD 209		

citral

Remarks	No data available.
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benzyl alcohol

EC50	390		mg/l
Duration of exposure	24	h	

benzyl alcohol

Species	activated sludge		
IC50	2100		mg/l
Duration of exposure	49	h	

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

Remarks	No data available.
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citral

Remarks	No data available.
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Biodegradability (Components)**7-Methyl-3-methylenocta-1,6-dien**

Value	76		%
Duration of test	28	d	
evaluation	Readily biodegradable		

citronellol

evaluation	Readily biodegradable
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(R)-p-mentha-1,8-diene

Value	71		%
evaluation	Readily biodegradable		

alpha-Pinene, not specified

Value	62		%
Duration of test	28	d	
evaluation	Readily biodegradable		
Method	OECD 301 B		

citral

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

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benzyl alcohol

Value	92	to	96	%
Duration of test evaluation	14	d		
Method	Readily biodegradable OECD 301C			

benzyl alcohol

Value	95	to	97	%
Duration of test evaluation	21	d		
Method	Readily biodegradable OECD 301 A			

Ready degradability (Components)**citronellol****7-Methyl-3-methylenocta-1,6-dien****(R)-p-mentha-1,8-diene****citral****benzyl alcohol****Chemical oxygen demand (COD) (Components)****citronellol**

Value	2050	mg/g
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(R)-p-mentha-1,8-diene

Remarks	No data available.
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citral

Remarks	No data available.
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Biochemical oxygen demand (BOD5) (Components)**(R)-p-mentha-1,8-diene**

Remarks	No data available.
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citral

Remarks	No data available.
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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

Bioconcentration factor (BCF) (Components)**citral**

Remarks	No data available
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benzyl alcohol

log BCF	1.05	
Temperature	20	°C

12.4. Mobility in soil**General information**

No data available

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12.5. Results of PBT and vPvB assessment

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

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 ***

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	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

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

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.

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H341	Suspected of causing genetic defects.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
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 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. 1	Flammable liquid, Category 1
Flam. Liq. 3	Flammable liquid, Category 3
Flam. Liq. 4	Flammable liquid, Category 4
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 2	Reproductive toxicity, 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.