

Trade name: Mint Citrus Flavor Liquid

Substance number: 016772 Version: 1 / CH Date revised: 18.12.2023

Replaces Version: - / CH Print date: 18.12.23

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

1.1. Product identifier

Mint Citrus Flavor Liquid

Item No. 01677200

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. 2 H225 Skin Irrit. 2 H315 Eye Irrit. 2 H319

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

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation. H319 Causes serious eye irritation.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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.



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P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501.3 Disposal in compliance with local and national regulations.

EUH208 Contains 1,8-Cineole, isomenthone, (E)-anethole, (R)-p-mentha-1,8-diene, citral, May

produce an allergic reaction.

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

Menthol

CAS No. 89-78-1 EINECS no. 201-939-0

Concentration >= 10 < 25 %

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

Skin Irrit. 2 H315 Eye Irrit. 2 H319

trans-menthone

CAS No. 89-80-5 EINECS no. 201-941-1

Concentration >= 1 < 10 %

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

Acute Tox. 4 H302 Aquatic Chronic 3 H412

cATpE oral 500 mg/kg

1,8-Cineole

CAS No. 470-82-6 EINECS no. 207-431-5

Concentration >= 0.1 < 1 %

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

Flam. Liq. 3 H226 Skin Sens. 1B H317

isomenthone

CAS No. 491-07-6 EINECS no. 207-727-4

Concentration \Rightarrow 0.1 < 1 %

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

Skin Irrit. 2 H315 Skin Sens. 1 H317

(E)-anethole

CAS No. 4180-23-8 EINECS no. 224-052-0

Registration no. 01-2119979097-22-XXXX

Concentration >= 0.1 < 1 %

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

Skin Sens. 1B H317



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

CAS No. 5989-27-5 EINECS no. 227-813-5

Concentration >= 0.1 < 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 3 H412

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

Aquatic Acute 1 M = 1

citral

CAS No. 5392-40-5 EINECS no. 226-394-6

Concentration >= 0.1 < 1 %

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

 Skin Irrit. 2
 H315

 Eye Irrit. 2
 H319

 Skin Sens. 1
 H317

Further ingredients

ethanol

CAS No. 64-17-5 EINECS no. 200-578-6

Concentration >= 50 %

Advice: [4]

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

Flam. Liq. 2 H225

Note

[4] Voluntary information

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In any case show the physician the Safety Data Sheet.

After inhalation

Remove the casualty into fresh air and keep him calm. If breathing is irregular or stopped, administer artificial respiration. Seek medical advice immediately.

After skin contact

Remove contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Consult a doctor if skin irritation persists.

After eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.



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4.2. Most important symptoms and effects, both acute and delayed

Allergic symptoms, Causes very strong irritations of the eyes, skin and mucous membranes.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, Foam, Dry powder

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Avoid inhalation of smoke and vapours.

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 breathing vapours. Keep away unprotected persons. Wear protective equipment

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

For small amounts: take up with appropriate instrument and dispose. For tall amounts: Take up mechanically and collect in suitable container for disposal. Take up with absorbent material (eg sand, kieselguhr). 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

Avoid contact with skin, eyes and clothing. Avoid inhaling dusts/ billows/ steams. Wear protective equipment. Observe the usual precautions for handling chemicals.

Advice on protection against fire and explosion

Keep away from ignition sources, fire and open light.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep tightly closed in a dry and cool place. Storage rooms must be properly ventilated. Store away from sources of ignition and heat.

Storage classes

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

Further information on storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from sources of ignition.

SECTION 8: Exposure controls/personal protection



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8.1. Control parameters

Exposure limit values

ethanol

List SUVA Type MAK

Value 960 mg/m^3 500 ppm(V)Short term exposure limit 1920 mg/m^3 1000 ppm(V)

Pregnancy group: S; Remarks: SSc; Formal; INRS NIOSH

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

List SUVA Type MAK

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

8.2. Exposure controls

General protective and hygiene measures

Remove contaminated, soaked clothing immediately and dispose of safely. At work do not eat, drink, smoke or take drugs. General industrial hygiene practice. Wash hands before breaks and after work.

Respiratory protection

Provide adequate ventilation. Do not breathe vapours, dust or aerosol. If vapours occur, use filter type A (= against vapours of organic compounds) according to EN 14387.

Hand protection

Appropriate Material nitrile rubber - NBR Material thickness 0.38 mm Breakthrough time 60 min nitrile rubber - NBR Appropriate Material Material thickness 0.1 Breakthrough time 10 min Hand protection must comply with EN 374.

Eye protection

Safety glasses with side protection shield; Eye protection must comply with EN 166.

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state liquid

Colour slightly yellow

Boiling point or initial boiling point and boiling range

Value 78 °C Remarks Information refers to the main component.

Flash point

Value 14 °C

pH value

Value 2.50 to 5.50

Vapour pressure

Value 50.74 hPa

Method calculated



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Density and/or relative density

Value 0.8330 to 0.8530 g/ml Remarks Relative Density according specification

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

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

Protect from heat and direct sunlight.

10.5. Incompatible materials

Reactions with acids, alkalies and oxidizing agents.

10.6. Hazardous decomposition products

Carbon dioxide

SECTION 11: Toxicological information

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

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

Acute oral toxicity (Components)

1,8-Cineole

Species rat

LD50 2840 mg/kg

Source RTECS

ethanol

Species rat

LD50 7060 mg/kg

Source Toxicology and Applied Pharmacology. Vol. 16, Pg. 718, 1970.

ethanol

Species rat

LD50 10470 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



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citral

Species rat (female)

LOAEL 335 mg/kg

citral

Species rat (male)

LOAEL 345 mg/kg

Menthol

Species Rats (male/female)

LD50 3180 mg/kg

Acute dermal toxicity (Components)

ethanol

Species rabbit

LD50 15800 mg/kg

ethanol

NOAEL 8232 mg/kg

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

Species rabbit

LD50 > 5000 mg/kg

citral

Species Rats (male/female)

> 2000 mg/kg

Menthol

Remarks No data available.

Acute inhalative toxicity (Components)

ethanol

Species rat

LC50 30000 mg/m³

Duration of exposure 4 h

Administration/Form Vapors

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

Remarks No data available.

citral

Remarks No data available.

Menthol

Species Rats (male/female)

LC50 5.289 mg/l

Skin corrosion/irritation (Components)

ethanol

evaluation non-irritant

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

Remarks No data available.

citral

Species rabbit evaluation irritant

Remarks Irritating to skin.

Menthol

Species rabbit

Duration of exposure 4 h

evaluation irritant Method OECD 404



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Serious eye damage/irritation (Components)

ethanol

evaluation irritant

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

Species rabbit evaluation non-irritant Method OECD 405

Remarks No effect of irritation known

citral

Species rabbit evaluation irritant

Method OECD 405

Remarks Irritates the eyes.

Menthol

Species rabbit evaluation irritant Method OECD 405

Sensitization (Components)

ethanol

evaluation non-sensitizing

(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

Menthol

Species guinea pig evaluation non-sensitizing

Source ECHA

Subacute, subchronic, chronic toxicity (Components)

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

Remarks No data available.

Mutagenicity (Components)

ethanol

evaluation No mutagenicity in the Ames-test.

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

Species mouse Remarks negative

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

Species rat (male) Remarks negative

citral

Species hamster

evaluation No experimental information on genotoxicity in vitro available.

Remarks negative

citral

Species mouse



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Remarks negative

Reproduction toxicity (Components)

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

Remarks No data available.

citral

Remarks No data available.

Menthol

Remarks No data available.

Carcinogenicity (Components)

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

Species rat

Remarks May cause cancer.

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.

Specific Target Organ Toxicity (STOT) (Components)

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

Remarks Not applicable

citral

Remarks Not applicable

Menthol

Remarks No data available.

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.

SECTION 12: Ecological information

12.1. Toxicity

Fish toxicity (Components)

1,8-Cineole

Species Fathead minnow (Pimephales promelas) LC50 102 mg/l

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

citral

Species golden orfe (Leuciscus idus)

LC50 6.78 mg/l

Duration of exposure 96 h

Method DIN 38412 T.15

Menthol



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Species zebra fish (Brachydanio rerio)

LC50 22.3 mg/l

Duration of exposure 96 h

Source ECHA

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

Menthol

Species Daphnia magna

EC50 26.6 mg/l

Duration of exposure 48 h

Method OECD 202

Algae toxicity (Components)

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

Remarks No data available.

citral

Species Desmodesmus subspicatus

EC50 to 103.8 mg/l

Duration of exposure - 72 h

Menthol

Species Desmodesmus subspicatus

ErC50 16.2 mg/l

Duration of exposure 72 h

Bacteria toxicity (Components)

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

Species activated sludge

EC50 3.94 mg/l

Method OECD 209

citral

Remarks No data available.

Menthol

Species activated sludge

306 mg/l

Duration of exposure 3 h

Method OECD 209

12.2. Persistence and degradability

Physico-chemical eliminability (Components)

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

Remarks No data available.

citral

Remarks No data available.

Biodegradability (Components)

ethanol

evaluation Readily biodegradable



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

Value 71 %

evaluation Readily biodegradable

citral

Value 85 to 95 %

evaluation Readily biodegradable

Method OECD 301C

Menthol

Value 76 %

Duration of test 28 d

evaluation Readily biodegradable (according to OECD criteria)

Method OECD 301D

Ready degradability (Components)

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

citral

Chemical oxygen demand (COD) (Components)

ethanol

Value 0.93 to 1.67 mg/g

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

Remarks No data available.

citral

Remarks No data available.

Biochemical oxygen demand (BOD5) (Components)

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

Remarks No data available.

citral

Remarks No data available.

12.3. Bioaccumulative potential

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

ethanol

log Pow -0.3

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

log Pow 4.2

citral

log Pow 2.9

Temperature 25 °C

Bioconcentration factor (BCF) (Components)

ethanol

BCF 0.66

citral

Remarks No data available

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 envrionment



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

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

Completely emptied packagings can be given for recycling.

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	1993	1993	1993
14.2. UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (ethanol)	FLAMMABLE LIQUID, N.O.S. (ethanol)	FLAMMABLE LIQUID, N.O.S. (ethanol)
14.3. Transport hazard class(es)	3	3	3
Label	***	***	***
14.4. Packing group	II	II	II
Special provision	640D		
Limited Quantity	11		
Transport category	2		

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 2

(Germany)

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

SECTION 16: Other information

Hazard statements listed in Chapter 3

H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour.



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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.
H400 Very toxic to aquatic life.

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 3 Hazardous to the aquatic environment, chronic, Category 3

Asp. Tox. 1

Eye Irrit. 2

Flam. Liq. 2

Flam. Liq. 3

Skin Irrit. 2

Skin Sens. 1

Skin Sensitization, Category 1

Skin Sensitization, Category 1

Skin Sensitization, Category 1

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.