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Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 12.11.2025 Version number 1.00 Revision: 06.11.2025

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

- · Product identifier
- · Trade name: Oleum Menthae piperitae
- · Article number: g474
- **Registration number** The substance is exempt from REACH-registration.
- · Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture Ingredient for pharmaceutical drugs
- · Uses advised against No relevant information available.
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

CAELO

Caesar & Loretz GmbH Herderstr. 31 D-40721 Hilden GERMANY

· Further information obtainable from:

E-mail: info@caelo.de

Tel.: +49210349940 (during regular opening hours)

Emergency telephone number:

Poison Information Center Bonn Venusberg-Campus 1, 53127 Bonn

Tel: +49 (0) 228-192400

2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

- · Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



· Signal word Warning

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· Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves.

P280 Wear 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 Dispose of contents/container in accordance with local/regional/national/international

regulations.

- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Determination of endocrine-disrupting properties Not applicable.

3 Composition/information on ingredients

- Mixtures
- · **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 2216-51-5	L-menthol	>25-50%
EINECS: 218-690-9	Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 89-80-5	trans-p-Menthan-3-one	>25-50%
EINECS: 201-941-1	Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 2623-23-6	I-Menthyl acetate (1alpha,2beta,5alpha)	>5-10%
EINECS: 220-076-0	Aquatic Chronic 2, H411	
CAS: 138-86-3	dipentene	>2.5-5%
EINECS: 205-341-0	Flam. Liq. 3, H226; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 470-82-6	eucalyptol	>2.5-5%
EINECS: 207-431-5	Flam. Liq. 3, H226; Skin Sens. 1, H317	
CAS: 491-07-6	d,l-Isomenthone	>2.5-5%
EINECS: 207-727-4	Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 494-90-6	4,5,6,7-Tetrahydro-3,6-dimethylbenzofuran	>2.5-5%
EINECS: 207-795-5	Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	

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CAS: 89-82-7	Pulegone	1-2.5%
EINECS: 201-943-2	Acute Tox. 4, H302	
CAS: 2216-52-6	(+)-Neomenthol	1-2.5%
EINECS: 218-691-4	Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 18172-67-3	IbetaPinene	>0.25-<1%
EINECS: 242-060-2	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 78-70-6	Linalool	>0.1-<1%
EINECS: 201-134-4	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317	
CAS: 99-49-0	Carvone	>0.1-<1%
EINECS: 202-759-5	Skin Sens. 1, H317	
CAS: 7785-26-4	IalphaPinene	>0.1-<0.25%
EINECS: 232-077-3	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317	
Additional informa	tion: For the wording of the listed hazard phrases refer to section 16.	

4 First aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eve contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- · Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

- · Extinguishing media
- · Suitable extinguishing agents: CO2, powder or water spray. Fight larger fire with alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

- Advice for firefighters
- · Protective equipment: In case of fire wear suitable protective clothes and respiratory protection.
- **Additional information**

Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.

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· Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Treat with 2 % sodium hydroxide solution.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store receptacle in a well ventilated area.
- · Storage class: TRHS 510: 10 Combustible liquids
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Control parameters
- Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- · **Appropriate engineering controls** No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- **Respiratory protection:** Suitable respiratory protective device recommended.
- Hand protection Protective gloves
- Material of gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

Physical state
Colour:
Odour:
Odour threshold:
Liquid
Colourless
Characteristic
Not determined.

· Melting point/freezing point: -74 °C

· Boiling point or initial boiling point and boiling

range 92 °C

· Flammability Not applicable.

· Lower and upper explosion limit

Lower: Not determined.Upper: Not determined.

• Flash point: 72 °C • Auto-ignition temperature: 280 °C

Decomposition temperature: Not determined. pH Not determined.

· Viscosity:

Kinematic viscosityDynamic:Not determined.Not determined.

Solubility

water: Not miscible or difficult to mix.

• Partition coefficient n-octanol/water (log value) Not determined. • Vapour pressure at 20 °C: 43.8 hPa

Density and/or relative density

Density at 20 °C: 0.902 g/cm³
 Relative density Not determined.
 Vapour density Not determined.

· Other information

· Appearance:

· Form: Fluid

Important information on protection of health and environment, and on safety.

· **Ignition temperature:** Product is not selfigniting.

• Explosive properties: Product does not present an explosion hazard.

· Solvent content:

· Organic solvents: >1.8–3.6 %

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Change in condition Evaporation rate

· VOC (EC)

Not determined.

>1.81-3.62 %

· Information with regard to physical hazard classes

Explosives

Void Void Void

· Flammable gases

Void Void

Oxidising gases

· Aerosols

Void Void Void

· Gases under pressure

Void Void

· Flammable liquids

Void Void

· Flammable solids

Void Void

· Self-reactive substances and mixtures

Void Void

· Pyrophoric liquids

Void Void

· Pyrophoric solids

Void Void

· Self-heating substances and mixtures

Void Void

Substances and mixtures, which emit flammable gases in contact with water

Void Void

· Oxidising liquids

Void Void

Oxidising liquids

Void

· Oxidising solids

Void Void

· Organic peroxides

Void Void

· Corrosive to metals

Void Void

· Desensitised explosives

Void Void

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.

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- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 9,025-<19,397 mg/kg

CAS: 2216-51-5 L-menthol

Oral LD50 2,046–2,615 mg/kg (rat)
Dermal LD50 >5,000 mg/kg (rabbit)
Inhalative LC50 5,289 mg/m3 /4h (rat)

CAS: 89-82-7 Pulegone

Oral LD50 470 mg/kg (rat)
Dermal LD50 3,090 mg/kg (rabbit)

CAS: 78-70-6 Linalool

Oral LD50 2,790 mg/kg (rat)
Dermal LD50 5,610 mg/kg (rabbit)
CAS: 7785-26-4 I-.alpha.-Pinene
Oral LD50 3,700 mg/kg (rat)

- · Primary irritant effect:
- · Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation May cause an allergic skin reaction.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · Information on other hazards
- · Endocrine disrupting properties

On the basis of the available data, the substance does not meet the criteria for the identification of substances having properties of interference with the endocrine system, in accordance with Article 59, paragraph 1 of the REACH Regulation and the criteria established in the Delegated Regulation (EU) 2017 / 2100 of the Commission or in Commission Regulation (EU) 2018/605.

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12 Ecological information

- · Toxicity
- · Aquatic toxicity:

CAS: 2216-51-5 L-menthol

LC50 15.6 mg/L (Fish)

EC50 21.4 mg/L (algae)

237 mg/L (Microorganism)

- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- Endocrine disrupting properties

Based on the available data, the substance does not meet the criteria for the identification of substances with properties affecting the endocrine system according to Article 59(1) of the REACH Regulation and the criteria of the Commission Delegated Regulation (EU) 2017/2100 or in the Commission Regulation (EU) 2018/605.

The product does not contain substances with endocrine disrupting properties.

- Other adverse effects
- · Remark: Toxic for fish
- Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:
- Recommendation: Disposal must be made according to local regulations.

14 Transport information

· UN number or ID number

· ADR, IMDG, IATA · UN proper shipping name

UN3082

· ADR

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S. (DIPENTENE, I-Menthyl acetate

(1alpha,2beta,5alpha))

• IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S. (DIPENTENE, I-Menthyl acetate

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(1alpha,2beta,5alpha), 4,5,6,7-Tetrahydro-3,6-

dimethylbenzofuran, I-.beta.-Pinene, alpha-PINENE),

MARINE POLLUTANT

· IATA Environmentally hazardous substance, liquid, n.o.s.

(DIPENTENE, i-Menthyl acetate (1alpha,2beta,5alpha))

· Transport hazard class(es)

· ADR, IMDG, IATA

· Class 9 Miscellaneous dangerous substances and articles.

· Label

· Packing group

· ADR, IMDG, IATA

· Environmental hazards:

Marine pollutant:
 Special marking (ADR):
 Special marking (IATA):
 Symbol (fish and tree)
 Symbol (fish and tree)

· Special precautions for user Warning: Miscellaneous dangerous substances and

articles.

· Hazard identification number (Kemler code): 90

· **EMS Number**: F-A,S-F

· Maritime transport in bulk according to IMO

instruments Not applicable.

· Transport/Additional information:

· ADR

Limited quantities (LQ)
 Transport category
 Tunnel restriction code

· IMDG

· Limited quantities (LQ) 5L

· UN "Model Regulation": UN 3082 ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, LIQUID, N.O.S. (DIPENTENE, L-

MENTHYL ACETATE (1ALPHA, 2BETA, 5ALPHA)), 9, III

15 Regulatory information

- \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture
- · LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

None of the ingredients is listed.

- · National regulations:
- Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany) TRHS 510: 10 Combustible liquids
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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16 Other information

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended.

Reasons for alterations This version replaces all old versions.

Relevant phrases

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.

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.

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

MAL-Code: Måleteknisk Arbejdshygjejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Skin Sens. 1: Skin sensitisation - Category 1

Skin Sens. 1B: Skin sensitisation - Category 1B

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2