

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 22.06.2022

Version number 2.00

Revision: 22.06.2022

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

- **Product identifier**
- **Trade name:** Lavender oil, synthetic
- **Article number:** G666
- **Registration number** The substance is exempt from UK 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 GB CLP regulation.
- **Hazard pictograms**



GHS07



GHS09

- **Signal word** Warning
- **Hazard statements**
H315 Causes skin irritation.

(Contd. on page 2)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.06.2022

Version number 2.00

Revision: 22.06.2022

Trade name: Lavender oil, synthetic

(Contd. of page 1)

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.

3 Composition/information on ingredients

Chemical characterisation: Mixtures· **Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

CAS: 78-70-6	Linalool	>25–50%
EINECS: 201-134-4	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317	
CAS: 115-95-7	linalyl acetate	>25–50%
EINECS: 204-116-4	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Self-react. G	
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: 123-35-3	Myrcene	>1–<2.5%
EINECS: 204-622-5	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317	
CAS: 141-12-8	Neryl acetate	>1–<2.5%
EINECS: 205-459-2	Skin Sens. 1, H317	
CAS: 507-70-0	Borneol	>1–<2.5%
EINECS: 208-080-0	Flam. Sol. 2, H228; STOT SE 2, H371	
CAS: 7785-26-4	l- α -Pinene	>1–<2.5%
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	
CAS: 13466-78-9	delta-3-Carene	>0.25–<1%
EINECS: 236-719-3	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H332; Skin Irrit. 2, H315; Skin Sens. 1, H317	

(Contd. on page 3)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 22.06.2022

Version number 2.00

Revision: 22.06.2022

Trade name: Lavender oil, synthetic

CAS: 18172-67-3	l-.beta.-Pinene	(Contd. of page 2) >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: 87-44-5	beta-Caryophyllene	>0.1–<1%
EINECS: 201-746-1	Asp. Tox. 1, H304; Skin Sens. 1, H317	
CAS: 105-87-3	geranyl acetate	>0.1–<1%
EINECS: 203-341-5	Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 106-24-1	geraniol	>0.1–<1%
EINECS: 203-377-1	Skin Sens. 1A, H317	
CAS: 470-82-6	eucalyptol	>0.1–<1%
EINECS: 207-431-5	Flam. Liq. 3, H226; Skin Sens. 1, H317	
CAS: 79-92-5	camphene	>0.25–<1%
EINECS: 201-234-8	Flam. Sol. 1, H228; Aquatic Chronic 2, H411; Eye Irrit. 2, H319	

· **Additional information:** 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 eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.
- **Information for 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 fires with water spray or 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**
Wear protective equipment. Keep unprotected persons away.

(Contd. on page 4)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 22.06.2022

Version number 2.00

Revision: 22.06.2022

Trade name: Lavender oil, synthetic

(Contd. of page 3)

· 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 item 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

· Handling:**· 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:** Protect from heat and direct sunlight.**· Storage class:** TRHS 510: 10 Combustible liquids**· Specific end use(s)** No further relevant information available.

* 8 Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.**· Control parameters****· Ingredients with limit values that require monitoring at the workplace:**

CAS: 138-86-3 dipentene

MAK (Germany) vgl.Abschn.IIb

CAS: 106-24-1 geraniol

MAK (Germany) Dampf und Aerosol; vgl.Abschn.IV

· Exposure controls**· 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 skin.
Avoid contact with the eyes and skin.

· Respiratory protection: Dust protection mask.

(Contd. on page 5)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 22.06.2022

Version number 2.00

Revision: 22.06.2022

Trade name: Lavender oil, synthetic

(Contd. of page 4)

- **Protection of hands:** Protective gloves
 - **Material of gloves**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. 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 protection:** Tightly sealed goggles
-

* 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
 - **Form:** Fluid
 - **Colour:** Yellow
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
 - **Melting point/freezing point:** Undetermined.
 - **Initial boiling point and boiling range:** Undetermined.
- **Flash point:** 83 °C
- **Flammability (solid, gas):** Not applicable.
- **Decomposition temperature:** Not determined.
- **Auto-ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Explosion limits:**
 - **Lower:** Not determined.
 - **Upper:** Not determined.
- **Vapour pressure:** Not determined.
- **Density at 20 °C:** 0.885 g/cm³
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.
- **Partition coefficient: n-octanol/water:** Not determined.

(Contd. on page 6)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.06.2022

Version number 2.00

Revision: 22.06.2022

Trade name: Lavender oil, synthetic

(Contd. of page 5)

- **Viscosity:**
 - Dynamic:** Not determined.
 - Kinematic:** Not determined.
 - **Solvent content:**
 - Organic solvents:** >2–4.1 %
 - VOC (EC)** >2.05–4.1 %
 - **Other information** No further relevant information available.
-

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.
 - **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 toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**
 - CAS: 78-70-6 Linalool**
 - Oral LD50 2,790 mg/kg (rat)
 - Dermal LD50 5,610 mg/kg (rabbit)
 - CAS: 7785-26-4 l.alpha.-Pinene**
 - Oral LD50 3,700 mg/kg (rat)
 - CAS: 79-92-5 camphene**
 - Oral LD50 5,000 mg/kg (rat)
 - Dermal LD50 2,500 mg/kg (rab)
 - CAS: 470-82-6 eucalyptol**
 - Oral LD50 4,500 mg/kg (rat)
 - Dermal LD50 2,000 mg/kg (rabbit)
- **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.
- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

(Contd. on page 7)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 22.06.2022

Version number 2.00

Revision: 22.06.2022

Trade name: Lavender oil, synthetic

(Contd. of page 6)

- **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.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:**
 - CAS: 470-82-6 eucalyptol**
 - LC50 57 mg/L /4d (Fish)
 - EC50 74 mg/L (Algae)
 - 100 mg/L /48h (invertebrates)
 - 100 mg/L (Microorganism)
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
 - Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
 - Do not allow product to reach ground water, water course or sewage system.
 - Must not reach sewage water or drainage ditch undiluted or unneutralised.
 - Danger to drinking water if even small quantities leak into the ground.
 - Harmful to aquatic organisms
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

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**
- **ADR, IMDG, IATA** UN3082

(Contd. on page 8)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 22.06.2022

Version number 2.00

Revision: 22.06.2022

Trade name: Lavender oil, synthetic

(Contd. of page 7)

· UN proper shipping name	
· ADR	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIPENTENE, alpha-PINENE)
· IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIPENTENE, alpha-PINENE, Myrcene, camphene, delta-3-Carene, l-.beta.-Pinene), MARINE POLLUTANT
· IATA	Environmentally hazardous substance, liquid, n.o.s. (DIPENTENE, alpha-PINENE)
· Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class	9 Miscellaneous dangerous substances and articles.
· Label	9
· Packing group	
· ADR, IMDG, IATA	III
· Environmental hazards:	
· Marine pollutant:	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· Special marking (IATA):	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
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Transport category	3
· Tunnel restriction code	-
· IMDG	
· Limited quantities (LQ)	5L

15 Regulatory information

- **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
- **National regulations:**
- **Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany)**
TRHS 510: 3 Flammable liquid
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

(Contd. on page 9)



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 22.06.2022

Version number 2.00

Revision: 22.06.2022

Trade name: Lavender oil, synthetic

(Contd. of page 8)

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.

H228 Flammable solid.

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.

H371 May cause damage to organs.

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.

· **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 Arbejdshygienisk 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

Flam. Liq. 3: Flammable liquids – Category 3

Flam. Sol. 1: Flammable solids – Category 1

Flam. Sol. 2: Flammable solids – Category 2

Self-react. G: Self-reactive substances and mixtures – Type G

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. 1A: Skin sensitisation – Category 1A

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

STOT SE 2: Specific target organ toxicity (single exposure) – Category 2

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

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· * **Data compared to the previous version altered.**