

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

Printing date 10.06.2022

Version number 2.00

Revision: 10.06.2022

### \* 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** Cinnamon bark oil, Ceylon
- **Article number:** G439
- **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**

Acute Tox. 4	H312 Harmful in contact with skin.
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.
Carc. 1B	H350 May cause cancer.
Aquatic Chronic 3	H412 Harmful 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



GHS08



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**· Signal word** Danger**· Hazard statements**

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H350 May cause cancer.

H412 Harmful 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.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P280 Wear protective gloves.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

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: 104-55-2	cinnamaldehyde	>50–100%
EINECS: 203-213-9	Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 97-53-0	Eugenol	>10–20%
EINECS: 202-589-1	Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 78-70-6	Linalool	>5–10%
EINECS: 201-134-4	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317	
CAS: 7785-26-4	l.-alpha.-Pinene	>0.25–<1%
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: 87-44-5	beta-Caryophyllene	>0.1–<1%
EINECS: 201-746-1	Asp. Tox. 1, H304; Skin Sens. 1, H317	
CAS: 94-59-7	safrole	>0.1–<1%
EINECS: 202-345-4	Muta. 2, H341; Carc. 1B, H350; Acute Tox. 4, H302	

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CAS: 104-54-1	Cinnamyl alcohol	(Contd. of page 2) >0.1—<1%
EINECS: 203-212-3	Acute Tox. 4, H302; Skin Sens. 1, H317	
CAS: 138-86-3	dipentene	>0.1—<0.25%
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: 91-64-5	Coumarin	>0.1—<1%
EINECS: 202-086-7	STOT RE 2, H373; Acute Tox. 4, H302	
CAS: 470-82-6	eucalyptol	>0.1—<1%
EINECS: 207-431-5	Flam. Liq. 3, H226; Skin Sens. 1, H317	

· **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.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **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. If symptoms persist, consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.

· **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:**

CO<sub>2</sub>, 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** 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 item 13.

**· 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:** Keep respiratory protective device available.**· 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

**· 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: 104-55-2 cinnamaldehyde**

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

**CAS: 97-53-0 Eugenol**

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

**CAS: 104-54-1 Cinnamyl alcohol**

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

**CAS: 138-86-3 dipentene**

MAK (Germany) vgl.Abschn.IIb

**· Exposure controls****· Personal protective equipment:****· General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing

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Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

· **Respiratory protection:** Required if vapours are generated.

· **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

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### \* 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

**Form:** Fluid

**Colour:** Yellowish

· **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:** 85 °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:** 1.024 g/cm<sup>3</sup>

· **Relative density** Not determined.

· **Vapour density** Not determined.

· **Evaporation rate** Not determined.

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- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.
  - **Partition coefficient: n-octanol/water:** Not determined.
  - **Viscosity:**
    - Dynamic:** Not determined.
    - Kinematic:** Not determined.
  - **Solvent content:**
    - Organic solvents:** >0.1–0.2 %
  - **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** Harmful in contact with skin.
- **LD/LC50 values relevant for classification:**
  - ATE (Acute Toxicity Estimates)**
    - Dermal LD50 1,499 mg/kg
  - CAS: 104-55-2 cinnamaldehyde**
    - Oral LD50 2,220 mg/kg (rat)
  - CAS: 97-53-0 Eugenol**
    - Oral LD50 1,930 mg/kg (rat)
  - 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: 94-59-7 safrole**
    - Oral LD50 1,950 mg/kg (rat)
    - Dermal LD50 >5,000 mg/kg (rabbit)

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**CAS: 104-54-1 Cinnamyl alcohol**

Oral LD50 2,000 mg/kg (rat)

Dermal LD50 &gt;5,000 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.· **Carcinogenicity**

May cause cancer.

· **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:** No further relevant information available.· **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 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

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.

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- **Uncleaned packaging:**
  - **Recommendation:** Disposal must be made according to local regulations.
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### 14 Transport information

- |   |                                       |
|---|---------------------------------------|
| · <b>UN-Number</b>  | Not subject to transport regulations. |
| · <b>ADR, IMDG, IATA</b>  | not regulated                         |
| · <b>UN proper shipping name</b>  |                                       |
| · <b>ADR, IMDG, IATA</b>  | not regulated                         |
| · <b>Transport hazard class(es)</b>   |                                       |
| · <b>ADR, ADN, IMDG, IATA</b>   |                                       |
| · <b>Class</b>  | not regulated                         |
| · <b>Packing group</b>  |                                       |
| · <b>ADR, IMDG, IATA</b>  | not regulated                         |
| · <b>Environmental hazards:</b>   | Not applicable.                       |
| · <b>Special precautions for user</b>                                       | Not applicable.                       |
| · <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable.                       |
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### 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, 28
  - **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.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H341 Suspected of causing genetic defects.  
H350 May cause cancer.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

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**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)  
MAL-Code: Måleteknisk Arbejdshygiejnisk 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  
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  
Muta. 2: Germ cell mutagenicity – Category 2  
Carc. 1B: Carcinogenicity – Category 1B  
STOT RE 2: Specific target organ toxicity (repeated 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 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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

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