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

- Informations to product No. g256
- Product name:

### Tinctura aromatica (70%) 1:5

Aromatic tincture  
Aromatische Tinktur

- Supplier of the Product / responsible Company:

Caesar & Loretz GmbH  
Herderstr. 31  
40721 Hilden  
Tel.: 02103/4994-0  
Fax: 02103/32360  
e-mail: info@caelo.de

- Emergency telephone:

Giftinformationszentrum Mainz  
Langenbeckstr. 1, 55131 Mainz  
Tel.: 06131/19240

- Relevant identified uses of the substance or mixture and uses advised against:

No further relevant information available.

- Application of the substance / mixture:

Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

## 2 Hazards identification

- GHS-Labeling Elements:



- Signal word: Warning

- H-Phrases:

H226 Flammable liquid and vapour

- P-Phrases:

P211 Do not spray on an open flame or other ignition source


**Flam. Liq. 3**

## 3 Composition / information on ingredients

- Chemical characterization:

**CAS-No. Substance name**

84649-98-9 Cinnamomum Zeylanicum Extract

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- **EINECS-No.:** 283-479-0
- **REACH Reg. No.:** 01-2119487278-23-0000
- **INCI-Name:** Cinnamomum Zeylanicum Extract

**CAS-No. Substance name**

84961-50-2 Eugenia Caryophyllus Extract

- **EINECS-No.:** 284-638-7
- **REACH Reg. No.:** Exempted from the obligation to register according to Annex 4 / 5 REACH-regulation.
- **INCI-Name:** Eugenia Caryophyllus Extract

**CAS-No. Substance name**

- Alpinia officinarum

- **EINECS-No.:** -
- **REACH Reg. No.:** Exempted from the obligation to register according to Annex 4 / 5 REACH-regulation.
- **INCI-Name:** -

**CAS-No. Substance name**

84696-15-1 Zingiber Officinale Extract

- **EINECS-No.:** 283-634-2
- **REACH Reg. No.:** 01-2120781538-41-0000
- **INCI-Name:** Zingiber Officinale Extract

**CAS-No. Substance name**

85940-32-5 Elettaria Cardamomum Extract

- **EINECS-No.:** 288-922-1
- **REACH Reg. No.:** 01-2120080371-63-0000
- **INCI-Name:** Elettaria Cardamomum Extract

**CAS-No. Substance name**

64-17-5 Ethanol (65 – 69% (V/V)) GHS02, H226

- **EINECS-No.:** 200-578-6
- **REACH Reg. No.:** 01-2119457610-43-0010
- **INCI-Name:** Alcohol


**CAS-No. Substance name**

7732-18-5 Water (ad 100%)

- **EINECS-No.:** 231-791-2
- **REACH Reg. No.:** Exempted from the obligation to register according to Annex 4 / 5 REACH-regulation.
- **INCI-Name:** Aqua

## 4 First aid measures

- **After inhalation:** Fresh air. If irritation of respiratory ways continues, seek medical advice.
- **After skin contact:** Take off contaminated clothes and shoes, wash away with plenty of water.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open.
- **After swallowing:** Drink water. Induce vomiting. If feeling unwell seek medical advice.

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## 5 Fire-fighting measures

- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting measures suitable to surrounding environment.
- **Specific hazards during fire fighting:** Combustible. Vapours are heavier / denser than air and spread on floor. Ignition over distances possible.
- **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection.
- **Additional information:** Cool endangered containers with water. Combustible liquid.

## 6 Accidental release measures:

- **Personal protective measures:** Good ventilation of working place. Do not inhale vapours. Avoid contact with substance. Keep away from ignition sources. Do not smoke.
- **Environmental protective measures:** Prevent substance from entering into drainage ditch, surface waters, ground water and flowing waters.
- **Methods for cleaning:** Absorb with liquid-binding material: Sand, silica gel, acid binder, universal binder, saw dust. Disposal according to Chapter 13 of this MSDS. Clean up with water.

## 7 Handling and storage

- **Handling:**
- **Advice on safe handling:** Remove all open flames or ignition sources. Do not smoke. Good ventilation of working place. Prevent from entering into drains.
- **Informations to fire or explosion protection:**  
Keep away from ignition sources. Do not smoke. Take measures to prevent electrostatic charging.
- **Storage:**
- **Requirements for storage areas and containers:** Store at a cool and good ventilated place. Keep container tightly closed. Protect from direct sunlight and other heat- or ignition sources.
- **Advices on common storage:** Do not store together with oxidants, self-igniting substances or flammable solids.
- **Additional informations to storage conditions:** Keep container tightly closed.

## 8 Exposure controls / personal protective equipment

**Components with limit values that require monitoring at the workplace:**

**AGW(TRGS 900):**

Ethanol (CAS: 64-17-5), 65-69% (V/V)

960 mg/m<sup>3</sup>, 500 ml/m<sup>3</sup>

1900 mg/m<sup>3</sup>, 1000 ml/m<sup>3</sup>

• **General protective and hygiene measures:**

Wash hands before breaks and after work.


Do not inhale vapours.

Avoid contact with eyes and skin.

• **Respiratory protection:** Good ventilation / exhaustion of working place.

• **Hand protection:** Protection gloves of PVC or rubber.

• **Eye protection:** Safety glasses.

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## 9 Physical and chemical properties

- **Form:** liquid
- **Colour:** light brown to dark brown
- **Odour:** alcoholic / aromatic
- **Melting point / melting range:** Not determined.
- **Boiling point / boiling range:** above 80 °C
- **Flash point:** ca. 40 °C
- **Ignition temperature:** 425 °C (Ethanol vapour)
- **Explosion hazard:** The product is not explosive, but explosive mixtures of vapour with air can be formed.
- **Explosion limits (Ethanol):**
  - **lower:** 3 Vol %
  - **upper:** 15 Vol %
- **Density:** (20 °C) 0,895 – 0,91)
- **Solubility in / Miscibility with**
- **Water:** Completely miscible.

## 10 Stability and reactivity


- **Thermal decomposition / conditions to avoid:** No decomposition during appropriate use.
- **Hazardous reactions:** Reactions with oxidants and strong acids.
- **Hazardous decomposition products:** Acetaldehyde after reaction with strong oxidants.

## 11 Toxicological information

- **Acute toxicity (Ethanol):**
- LD/LD50-data relevant for hazard classification:**
  - LD50(oral, Rat): 6200 mg/kg (IUCLID)
  - LD50(oral, Rabbit): 6300 mg/kg
  - LD50(oral, Guinea pig): 5560 mg/kg
  - LD50(oral, Mouse): 8350 mg/kg (OECD 401)
- **Primary irritant effect:**
  - **on skin:** Not irritant (OECD 404)
  - **on eyes:** Irritant (OECD 405)
  - **on respiratory organs:** Slightly irritant.
- **Sensitization:** no sensitizing effect known.
- **Sub-acute / chronic toxicity:** repeated exposition can cause neuronal damage. These effects were observed only at high dosage. Mutagenity: Not mutagen.
- **Additional toxicological informations:** High concentrations can cause fatigue, vertigo or unconsciousness. Vapours and liquid can cause eye irritations.

## 12 Ecological information

- **Information about elimination (persistence and degradability):**  
Readily biodegradable. Rapid photochemical oxidation in air.
- **Mobility and bioaccumulation potential:** Soluble in water. Disappears within one day by evaporation and dissolution. No substantial bioaccumulation. If big quantities are released, the

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product can penetrate into soil and have harmful effect on ground water.

• **Aquatic toxicity:**

Fish toxicity:

LC50: 11200 mg/l/24h (Oncorhynchus mykiss, US EPA E03-05)

LC50: 13000 mg/l/96h (Oncorhynchus mykiss, OECD 203)

Daphnia toxicity:

LC50: 12340 mg/l/48h (Daphnia magna, ASTM E729-80)

Water plants:

EC50: 275 mg/l/72h (Chlorella vulgaris, OECD 201)

EC10: 12 mg/l/72h (Chlorella vulgaris, OECD 201)

Bacteria (Pseudomonas putida): Toxic concentration limit: 6500 mg/l

Activated sludge : Damage above 15g Ethanol/l

• **Behaviour in sewage plants:** EC50: > 1000 mg/l.

• **General advices:** Prevent from entering sewage water or drainage ditch undiluted or unneutralized.

• **Water hazard class:** 1 (VwVwS): slightly hazardous for water.

### 13 Disposal considerations

• **Product:**

• **Recommendation:** Disposal according to local regulations as pharmaceutical waste.

• **Empty contaminated packaging:**

• **Recommendation:** Disposal according to the local regulations. Empty container completely and let evaporate residues in a safe place.

### 14 Transport informations

• **Land transport according to ADR:**

• **Proper shipping name:** Tinctures, medical

• **Class:** 3

• **UN-number:** 1293

• **Packing group:** III

• **Classification code:** F1

• **Limited quantities (Table 3.4.6. ADR):** 5 Liter

• **Hazard classification number:** 30

• **Special provisions (Chapter 3.3 ADR):** -

• **Additional informations for sea transport IMDG:**

• **EMS-No.:** F-E, S-D

• **Properties:** Fp=40°C

### 15 Regulatory information

• **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):**


The product is classified and labelled according to GHS-regulations.

• **Hazard symbols:** GHS02

• **Signal word:** Warning

• **H-Phrases:**

H226 Flammable liquid and vapour

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• **P-Phrases:**

P211 Do not spray on an open flame or other ignition source

• **National regulations (Germany):**

• **Water hazard class:** see chapter 12

• **Storage class TRGS 510:** 3

• **VbF class:** B

## 16 Other Information

The information provided in this MSDS is correct to the best of our knowledge at the date of edition.

• **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.