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

- **Informations to product No. w802**
- **Product name:**

Knoblauchöl
Oleum Allii sativi
Garlic oil

- **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:** Danger

- **H-Phrases:**


H226 Flammable liquid and vapour
H302 Toxic if swallowed
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation

- **P-Phrases:**

P280 Wear protective gloves/protective clothing/eye protection/face protection
P301 IF SWALLOWED:
P310 Immediately call a POISON CENTER or doctor/physician
P305 IF IN EYES
P351 Rinse continuously with water for several minutes

Flam. Liq. 3

Acute Tox. 3

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Skin Irrit. 2
Skin Sens. 1
Eye Irrit. 1

3 Composition / information on ingredients

• **Chemical characterization**

CAS-No. Substance name

8008-99-9 Garlic oil

• **EINECS-No.:** 232-371-1

• **REACH Reg. No.:** (pre-registered)

• **INCI-Name:** Allium Sativum Extract / Allium Sativum Bulb Oli

• **Description:** Essential oil, prepared by steam distillation of garlic bulbs with complex composition.

4 First aid measures

- **after inhalation:** Bring the person out of the contaminated area to fresh air, if feeling unwell get medical help.
- **after skin contact:** Take off contaminated clothes and shoes, wash immediately with plenty of water and soap. If skin irritation continues: Seek medical advice.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open. If irritation continues, call in ophthalmologist..
- **after swallowing:** Do not induce vomiting. Get medical help immediately, show label or this MSDS.

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. In case of fire dangerous gases / vapours can be released: Smoke gases.
- **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection.
- **Additional information:** Prevent fire extinguishing water from contaminating surface water, the ground water system or soil. Residues must be deposited according to local regulations.

6 Accidental release measures

- **Personal protective measures:** Avoid contact with substance. Good ventilation of working place.
- **Environmental protective measures:** Prevent from leaking into sewage water, ground water system or surface waters. Clean floor thoroughly with water and detergent.
- **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:** Avoid inhalation of vapours.

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• **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:** Tightly closed. Store at a dry place. Cool. Store at a good ventilated place.

• **Advices on common storage:** Not required.

8 Exposure controls / personal protective equipment

• **Personal protective equipment:**

• **General protective and hygiene measures:**

Keep away from food, beverages and animal food.

Take off contaminated clothes immediately.

Wash hands before breaks and after work.

Avoid contact with eyes and skin.

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

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

• **Eye protection:** Safety glasses.

9 Physical and chemical properties

• **Form:** liquid

• **Colour:** yellow - brown

• **Odour:** strong garlic odour

• **Melting point / melting range:** not determined

• **Boiling point / boiling range:** not determined

• **Flash point:** ca. 50 °C

• **Density:** (20 °C) 1,05 g/cm³

• **Solubility in / Miscibility with**

• **Water:** not soluble

10 Stability and reactivity

• **Thermal decomposition / conditions to avoid:** No decomposition during appropriate use.

• **Materials to avoid:** Strong oxidants

• **Hazardous reactions:** No hazardous reactions known.

• **Hazardous decomposition products:** none

11 Toxicological information


• **Acute toxicity:** Quantitative toxicological data for this product are not available.

• **Primary irritant effect:**

• **on skin:** Irritant with possible allergic reactions

• **in eyes:** Strong irritations.

• **Sensitization:** Sensitizing effect possible.

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12 Ecological information

- **Ecotoxical effects:**
- **Behaviour in sewage plants:** In biological sewage plants disturbances of the biodegradation activity of bacteria are possible.
- **Water hazard class:** 2 (self classification): 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.

14 Transport informations

- **Land transport according to ADR:**
- **Proper shipping name:** Flammable liquids, n.o.s., Essential oil.
- **Class:** 3
- **UN-number:** 1993
- **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):** 274, 640E
- **Additional informations for sea transport IMDG:**
- **EMS-No.:** F-E, S-E
- **Properties:** Fp=51°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, GHS06
- **Signal word:** Danger
- **H-Phrases:**
H226 Flammable liquid and vapour
H302 Toxic if swallowed
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- **National regulations (Germany):**

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- **Water hazard class:** see chapter 12
- **Storage class TRGS 510:** 3
- **VbF class:** All

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.