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

- Informations to product No. g426
- Product name:

Oleum Calami rectific.
Kalmusöl
Calamus 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: Warning

- H-Phrases:

H226 Flammable liquid and vapour
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H411 Toxic for aquatic life with long lasting effects

- P-Phrases:

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
P273 Avoid release to the environment
P280 Wear protective gloves/protective clothing/eye protection/face protection


Acute Tox. 4

Flam Liq. 3

Aquatic Acute 1

Aquatic Chronic 1

Skin Sens. 1

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3 Composition / information on ingredients

• **Chemical characterization:**

CAS-No. Substance name

8015-79-0 Kalmusöl

• **EINECS-No.:** 283-869-0

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

• **INCI-Name:** Acorus Calamus Root Oil

• **Description:** Essential oil, prepared by steam distillation or extraction from calamus rhizome. Contains 11% max. Asarone.

4 First aid measures

- **General advices:** Remove contaminated clothing. Symptoms of intoxication can occur even up to 48 hours after exposition.
- **after inhalation:** Fresh air. If irritation of respiratory ways continues, seek medical advice.
- **after skin contact:** Wash off with water, remove contaminated clothing.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open. If feeling unwell continuously seek medical advice.
- **after swallowing:** Seek medical advice immediately.

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
- **Special protective equipment for fire-fighters:** Do not inhale combustion gases. Wear 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, Wear protective equipment. Good ventilation of working place.
- **Environmental protective measures:** Prevent from entering into drains. If product is entering drainage ditch or surface waters inform responsible authorities.
- **Methods for cleaning:** Absorb with liquid-binding material: Sand, silica gel, acid binder, universal binder, saw dust, disposal of contaminated material: see chapter 13. Good ventilation of working place.

7 Handling and storage

- **Handling:** Good ventilation / exhaustion of working place. Avoid formation of aerosols.
- **Informations to fire or explosion protection:** Good ventilation / exhaustion of working place and storage place. Keep away from ignition sources – Do not smoke.

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- **Storage:**
- **Requirements for storage areas and containers:**
Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C). Store at a good ventilated place. Avoid safely penetration into soil.
- **Advices on common storage:** Not required.
- **Additional informations to storage conditions:** none

8 Exposure controls / personal protective equipment

- **Components with limit values that require monitoring at the workplace:** Limonene
- **Personal protective equipment:**
- **General protective and hygiene measures:** The usual precaution measures during handling of chemicals are to observe.
- **Respiratory protection:** Only required if aerosols or vapours are generated.
- **Hand protection:** Protection gloves of rubber or latex or PVZ, for full contact 15 minutes maximum: Neopren. Suitable gloves for enduring contact, Material: Nitrile rubber/Nitrile latex Penetration time > 480 min., Thickness: 0,35 mm.
- **Eye protection:** Safety glasses

9 Physical and chemical properties


- **Form:** liquid
- **Colour:** colourless – light yellow
- **Odour:** aromatic
- **Melting point / melting range:** not determined
- **Boiling point / boiling range:** 249 °C
- **Flash point:** 59 °C
- **Density:** (20 °C) 0,954 - 0,965 g/cm³
- **Solubility in / Miscibility with**
- **Water:** not soluble
- **Additional information:** Soluble in many organic solvents.

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** No decomposition during appropriate use.
- **Materials to avoid:** Strong oxidizers, strong acids and bases.
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** none

11 Toxicological information

- **Acute toxicity:**
LD50 oral, Rat: 777 mg/kg
LD50 dermal, gpg: > 5000 mg/kg
- **Primary irritating effect:** Etheric oils can have – dependant on the individual sensibility – an irritant effect on skin, eyes and respiratory organs.

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12 Ecological information

- **Behaviour in environmental systems:**
- **Component:** In biological sewage plants disturbings of the activity of activated sludge are possible.
- **Ecotoxicological effects:**
- **General advices:** Do not allow product to reach ground water, water course or sewage system even in small quantities. Danger to drinking water if even small quantities leak into the ground.
- **Water hazard class:** 2 (Self classification): 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.

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=59°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, GHS07, GHS09
- **Signal word:** Warning
- **H-Phrases:**
H226 Flammable liquid and vapour
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H411 Toxic for aquatic life with long lasting effects
- **P-Phrases:**
P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
P273 Avoid release to the environment
P280 Wear protective gloves/protective clothing/eye protection/face protection
- **National regulations (Germany):**
- **Water hazard class:** see chapter 12

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- **Storage class TRGS 510:** 3
- **VbF class:** AllI

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.