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

- Informations to product No. g470
- Product name:

Oleum „Melissae“ rectific. „Melissenöl“ (Zitronellöl – Zitronenöl – Gemisch)

- **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:**

H315 Causes skin irritation
 H318 Causes serious eye damage
 H317 May cause an allergic skin reaction
 H304 May be fatal if swallowed and enters airways.
 H410 Very toxic to aquatic life with long lasting effects

- **P-Phrases:**

P280 Wear protective gloves/protective clothing/eye protection/face protection
 P305 IF IN EYES:
 P351 Rinse continuously with water for several minutes
 P301 IF SWALLOWED:
 P331 Do NOT induce vomiting
 P310 Immediately call a POISON CENTER or doctor/physician
 P273 Avoid release to the environment

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Asp. Tox. 1
Eye Dam. 1
Aquatic Acute 1
Aquatic Chronic 1
Skin Irrit. 2
Skin Sens. 1

3 Composition / information on ingredients

· **Chemical characterization**

CAS-No. Substance name

84929-31-7 Citrus oil (55 – 57%)

- **EINECS-Nr.:** 284-515-8
- **REACH Reg. No.:** 01-2119495512-35-0000
- **INCI-Name:** Citrus Limon Peel Oil

CAS-No. Substance name

91771-61-8 Cymbopogon oil (43 – 45%)

- **EINECS-Nr.:** 294-954-7
- **REACH Reg. No.:** 01-2120741487-48-0000
- **INCI-Name:** Cymbopogon Winterianus Oil

· **Description:** Mixture of two essential oils, prepared from plant material by steam distillation

· **Hazardous components:**

EINECS: 203-376-6 **Citronellal, Natural**, H411, H315, H317; 25-50%

EINECS: 227-813-5 **D-Limonen, Natural**, H226, H304, H400, H410, H315, H317; 25-50%

EINECS: 203-377-1 **Geraniol, Natural**, H318, H315, H317; 10-25%

EINECS: 203-375-0 **Citronellol, Natural**, H411, H315, H317; 2,5-10%

EINECS: 226-394-6 **Citral, Natural**, H315, H317; 2,5-10%


EINECS: 201-291-9 **Pinen, Natural**, H226, H304, H400, H410, H317, ≤2,5%

4 First aid measures

- **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. 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.

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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.
- **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:** Limonen.
- **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 PVC, 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:** odour of lemon
- **Melting point / melting range:** not determined
- **Boiling point / boiling range:** 173 °C
- **Flash point:** 60 °C
- **Ignition temperature:** 202 °C
- **Explosion limits (vapour):**
 - lower: 1,2 Vol %
 - upper: 4,5 Vol %
- **Density:** (20 °C) 0,862 - 0,872 g/cm³
- **Solubility in / Miscibility with**

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- **Water:** not soluble
- **Refractory index:** (20 °C) 1,461 - 1,471

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:**
Citronellal, Natural
Oral LD50 2420 mg/kg (rat)
Dermal LD50 5000 mg/kg (rabbit)
- **Citronellol, Natural**
Oral LD50 3450 mg/kg (rat)
Dermal LD50 2650 mg/kg (rabbit)
- **Primary irritant effect:**
 - **on skin:** Irritant effect on skin and mucous membranes.
 - **on eyes:** Slight irritant effect.
- **Sensitization:** Sensitization by skin contact possible.

12 Ecological information


- **Ecotoxicological effects:**
Very toxic for fishes.
- **General advices:** Do not allow product to reach ground water, water course or sewage system even in small quantities. Danger for drinking water if even small quantities leak into the ground. In environmental waters very Toxic for fishes and plankton, very toxic for water organisms.
- **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:**
- **Substance name d. Gutes:** Environmentally hazardous liquid,n.o.s., Essential oil
- **Class:** 9
- **UN-number:** 3082

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- **Packing group:** III
- **Classification code:** M6
- **Limited quantities (Table 3.4.6. ADR):** 5 L
- **Hazard classification number:** 90
- **Special provisions (Chapter 3.3 ADR):** 274
- **Additional informations for sea transport IMDG:**
- **EMS-No.:** F-A, S-F
- **Properties:** m.p.

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:** GHS05, GHS07, GHS08, GHS09

- **Signal word:** Danger

- **H-Phrases:**

H315 Causes skin irritation

H318 Causes serious eye damage

H317 May cause an allergic skin reaction

H304 May be fatal if swallowed and enters airways.

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- **P-Phrases:**

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P351 Rinse continuously with water for several minutes

P301 IF SWALLOWED:

P331 Do NOT induce vomiting

P310 Immediately call a POISON CENTER or doctor/physician

P273 Avoid release to the environment

- **National regulations (Germany):**

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

- **Storage class TRGS 510:** 10

- **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.