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

- Informations to product No. g446
- Product name:

Oleum Citronellae Citronellöl Cymbopogon 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:

H315 Causes skin irritation
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction
H411 Toxic to aquatic life with long lasting effects.

- P-Phrases:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305 IF IN EYES:
P351 Rinse cautiously with water for several minutes.
P313 Get medical advice/attention
P273 Avoid release to the environment

Skin Irrit. 2
Skin Sens. 1

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Eye Dam. 1
Aquatic Chronic 2

3 Composition / information on ingredients

• **Chemical characterization**

CAS-No. Substance name

91771-61-8 Cymbopogon winterianus oil

• **EINECS-No.:** 294-954-7

• **REACH Reg. No.:** 01-2120741487-48-0000

• **INCI-Name:** Cymbopogon Winterianus Oil

• **Description:** Naturally occurring substance, prepared from Cymbopogon winterianus by extraction or steam distillation.

• **Hazardous components:**

CAS: 106-23-0, EINECS: 203-376-6, **Citronellal**, H411; H315; H319; H317, 25-49,99%

CAS: 106-24-1, EINECS: 203-377-1, **3,7-Dimethylocta-2,6-dien-1-ol**, H318; H315; H317, 20-24,99%

CAS: 106-22-9, EINECS: 203-375-0, **Citronellol**, H411; H315; H317, 10-19,99%

CAS: 105-87-3, EINECS: 203-341-5, **2,6-Octadien-1-ol-3,7-dimethylacetat**, H411, 2,5-5%

CAS: 138-86-3, EINECS: 205-341-0, **Limonen**, H226; H304; H400; H410; H315; H317, 2,5-5%

CAS: 78-70-6, EINECS: 201-134-4, **3,7-Dimethyl-1,6-octadien-3-ol**, H315, 1-2,49%

CAS: 5392-40-5, EINECS: 226-394-6, **3,7-Dimethyl-2,6-octadien-1-al (cis und trans)**, H315; H317, 1-2,49%

4 First aid measures


- **after inhalation:** Fresh air
- **after skin contact:** Wash off with water, remove contaminated clothing.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open.
- **after swallowing:** Drink water. Induce vomiting. Seek medical advice.

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 vapours/gases can be generated: 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. Wear suitable protective equipment according to Chapter 8 of this MSDS. Good ventilation of
- **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.
- **Additional information:** Prevent from entering into drains, prevent from contaminating surface water or the ground water system.

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7 Handling and storage

- **Handling:** No special requirements.
- **Informations to fire or explosion protection:** Good ventilation / exhaustion of working place and storage place.
- **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.
- **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:

The product does not contain relevant quantities of substances with limit values that require monitoring at the workplace.

- **Personal protective equipment:**
- **General protective and hygiene measures:**
The usual precaution measures during handling of chemicals are to observe.
- **Respiratory protection:** Not required.
- **Hand protection:** Protection gloves of rubber or latex
- **Eye protection:** Safety glasses

9 Physical and chemical properties


- **Form:** liquid
- **Colour:** yellow
- **Odour:** odour of lemons
- **Melting point / melting range:** not determined
- **Boiling point / boiling range:** not determined
- **Flash point:** 90 °C
- **Density:** (20 °C) 0,885 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 oxidizers, strong acids and bases.
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** none

11 Toxicological information

- **Acute toxicity:** Quantitative informations are not available.
- **Primary irritating effect:**

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- **on skin:** Irritant effect on skin and mucous membranes.
- **on eyes:** Strong irritant effect with risk of serious eye damage.
- **Sensitization:** Sensitization by skin contact possible.

12 Ecological information

- **Aquatic toxicity:** Quantitative data about ecological effects of this product are not available. Toxic for water organisms.
- **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): 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:** Environmentally hazardous liquid, n.o.s., Essential oil
- **Class:** 9
- **UN-number:** 3082
- **Packing group:** III
- **Classification code:** M6
- **Limited quantities (Table 3.4.6. ADR):** 5 Liter
- **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, GHS09, GHS02
- **Signal word:** Danger
- **H-Phrases:**
H226 Flammable liquid and vapour
H315 Causes skin irritation
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction
H411 Toxic to aquatic life with long lasting effects.
- **P-Phrases:**

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P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

P305 IF IN EYES:

P351 Rinse cautiously with water for several minutes.

P313 Get medical advice/attention

P273 Avoid release to the environment

• **National regulations (Germany):**

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

• **Storage class TRGS 510:** 3

• **VbF class:** AIII

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.