


<p>Page 1 of 5</p> <p>Print Date 20.05.2019</p>	<p><b>Material Safety Data Sheet</b> according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Oleum Aurantii Floris artific.</p>	 <p>Revision Date 20.05.2019</p>
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## 1 Identification of the substance/mixture and of the company/undertaking

- **Informations to product No. g418**
- **Product name:**

**Oleum Aurantii Floris artific.**  
Künstliches Orangenblütenöl  
Artificial orange flower 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  
H317 May cause an allergic skin reaction  
H319 Causes serious eye irritation.  
H304 May be fatal if swallowed and enters airways  
H411 Toxic to aquatic life with long lasting effects

- **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 cautiously with water for several minutes.  
P273 Avoid release to the environment

<p>Page 2 of 5</p> <p>Print Date 20.05.2019</p>	<p><b>Material Safety Data Sheet</b> according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Oleum Aurantii Floris artific.</p>	 <p>Revision Date 20.05.2019</p>
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**Asp. Tox. 1**  
**Aquatic Chronic 2**  
**Skin Sens.1**  
**Skin Irrit. 2**  
**Eye Irrit. 2**

### 3 Composition / information on ingredients

• **Chemical characterization**

**CAS-No. Substance name**

- Artificial orange flower oil

• **EINECS-No.:** -

• **REACH Reg. No.:** - (Mixture)

• **INCI-Name:** -

• **Description:** Artificial essential oil

• **Hazardous components:**

EINECS: 201-134-4 **Linalool, Natural**, H315; 25-50%

EINECS: 204-116-4 **Linalylacetat, Natural**, H411; 10-25%

EINECS: 227-813-5 **D-Limonen, Natural**, H226, H304, H400, H410, H315, H317; 10-25%

**Phenylethylalkohol, Natural**, H311; 2,5-10%

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

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

CAS: 134-20-3, EINECS: 205-132-4, **Methylantranilat**, H319; ≤2,5%

EINECS: 203-377-1 **Geraniol, Natural**, H318, H315, H317; ≤2,5%

**Alpha Terpineol, Natural**, H315; ≤2,5%

**Geranylacetat, Natural**, H411; ≤2,5%

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


EINECS: 204-622-5 **Myrcene, Natural**, H226, H300, H304, H411; ≤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 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.

<p>Page 3 of 5</p> <p>Print Date 20.05.2019</p>	<p><b>Material Safety Data Sheet</b> according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Oleum Aurantii Floris artific.</p>	 <p>Revision Date 20.05.2019</p>
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## 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.

- **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:** 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:** 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:** 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 or light yellow

- **Odour:** strong odour of citrus fruits

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

- **Boiling point / boiling range:** 194 °C

- **Flash point:** 66 °C

- **Zündtemperatur:** 225 °C


- **Explosion limits (vapour):**

lower: 0,7 Vol %

upper: 5,2 Vol %

- **Density:** (20 °C) 0,873 - 0,885 g/cm³

- **Solubility in / Miscibility with**

Page 4 of 5  Print Date 20.05.2019	<b>Material Safety Data Sheet</b> according to Regulation (EC) No. 1907/2006 (REACH)  Oleum Aurantii Floris artific.	 Revision Date 20.05.2019
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- **Water:** not miscible
- **Refractory index :** (20 °C) 1,462 - 1,466

## 10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:**  
Protect from light and air.
- **Materials to avoid:** Oxidants
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** none

## 11 Toxicological information


- **Acute toxicity:**  
**LD/LC50-values relevant for classification:**  
**Linalylacetat, Natural**  
Oral LD50 14550 mg/kg (rat)  
Dermal LD50 >5000 mg/kg (rabbit)  
**115-95-7 Linalylacetat**  
Oral LD50 14550 mg/kg (rat)  
Dermal LD50 >5000 mg/kg (rabbit)  
**Pinen, Natural**  
Oral LD50 3700 mg/kg (rat)
- **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

- **Ecotoxicical effects:**  
Toxic for fishes.
- **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. In environmental waters toxic for fishes and plankton, 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.

<p>Page 5 of 5</p> <p>Print Date 20.05.2019</p>	<p><b>Material Safety Data Sheet</b> according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Oleum Aurantii Floris artific.</p>	 <p>Revision Date 20.05.2019</p>
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## 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:** GHS07, GHS08, GHS09
- **Signal word:** Danger
- **H-Phrases:**  
H315 Causes skin irritation  
H317 May cause an allergic skin reaction  
H319 Causes serious eye irritation.  
H304 May be fatal if swallowed and enters airways  
H411 Toxic to aquatic life with long lasting effects
- **P-Phrases:**  
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P305 IF IN EYES:  
P351 Rinse cautiously with water for several minutes.  
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.