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

- Informations to product No. g416
- Product name:

Oleum Aurantii Floris
Neroli oil (Bitter orange flower oil)
Neroliöl, Bitterorangenblütenöl

- 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.
H304 May be fatal if swallowed and enters airways.
H410 Very toxic to aquatic life with long lasting effects.

- P-Phrases:

P301 IF SWALLOWED:
P331 Do NOT induce vomiting
P310 Immediately call a POISON CENTER or doctor/physician
P303 IF ON SKIN:
P352 Wash with plenty of soap and water.

Asp. Tox. 1
Skin Irrit. 2

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Skin Sens. 1
Aquatic Acute 1
Aquatic Chronic 1

3 Composition / information on ingredients

• **Chemical characterization**

Essential oil of Citrus aurantium var. amara or Bigaradia (Rutaceae) obtained from the flowers by steam distillation

CAS-No. Substance name

8016-38-4 Citrus Aurantium Flower Oil

- **EINECS-No.:** 639-655-8
- **REACH Reg. No.:** 01-2120763169-46-0000
- **INCI-Name:** Citrus Aurantium Flower Oil

• **Hazardous components:**


CAS: 78-70-6, EINECS: 201-134-4, **3,7-Dimethyl-1,6-octadien-3-ol**, H315, 25-49,99%
 CAS: 18172-67-3, EINECS: 242-060-2, **beta-Pinen**, H226; H304; H400; H410; H317, 10-19,99%
 CAS: 138-86-3, EINECS: 205-341-0, **Limonen**, H226; H304; H400; H410; H315; H317, 10-19,99%
 CAS: 106-25-2, EINECS: 203-378-7, **Nerol**, H315; H319, 2,5-5%
 CAS: 123-35-3, EINECS: 204-622-5, **7-Methyl-3-methylenocta-1,6-dien**, H226; H304; H315; H319, 2,5-5%
 CAS: 98-55-5, EINECS: 202-680-6, **p-Menth-1-en-8-ol**, H315; H319, 1-2,49%
 CAS: 7212-44-4, EINECS: 230-597-5, **3,7,11-Trimethyldodeca-1,6,10-trien-3-ol**, H400; H410, 1-2,49%
 CAS: 105-87-3, EINECS: 203-341-5, **2,6-Octadien-1-ol-3,7-dimethylacetat**, H411, 1-2,49%
 CAS: 7785-26-4, EINECS: 232-077-3, **alpha-Pinen**, H226; H304; H400; H410; H317, 1-2,49%
 CAS: 4602-84-0, EINECS: 225-004-1, **3,7,11-Trimethyl-2,6,10-dodecatrienol**, H315; H319; H317, 1-2,49%
 CAS: 13877-91-3, EINECS: 237-641-2, **3,7-Dimethylocta-1,3,6-trien**, H226; H304, 1-2,49%
 CAS: 79-92-5, EINECS: 201-234-8, **Camphen**, H228; H410; H319, 1-2,49%
 CAS: 106-24-1, EINECS: 203-377-1, **3,7-Dimethylocta-2,6-dien-1-ol**, H318; H315; H317, 1-2,49%
 CAS: 115-95-7, EINECS: 204-116-4, **3,7-Dimethyl-1,6-octadien-3-ylacetat**, H411, 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.

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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.

- **Additional information:** Prevent from entering into drains, prevent from contaminating surface water or the ground water system.

7 Handling and storage

- **Handling:** Avoid inhalation of vapours.

- **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:** colourless or light yellow

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

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


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

- **Flash point:** 60 – 65 °C

- **Density:** (20 °C) 0,863 - 0,880 g/cm³

- **Solubility in / Miscibility with**

- **Water:** not soluble

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10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:**

Protect from air and light.

- **Materials to avoid:** Oxidants
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** none

11 Toxicological information

- **Acute toxicity:** Quantitative toxicological data are not available.
LD50 (oral, Rat): 5151 mg/kg (calculated)

12 Ecological information


- **Ecotoxicological 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.

14 Transport informations

- **Land transport according to ADR:**
- **Proper shipping name:** Environmentally hazardous substance, 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, 335, 601
- **Additional informations for sea transport IMDG:**
- **EMS-No.:** F-A, S-F
- **Properties:** m.p.

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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.

H304 May be fatal if swallowed and enters airways.

H410 Very toxic to aquatic life with long lasting effects.

· **P-Phrases:**

P301 IF SWALLOWED:

P331 Do NOT induce vomiting

P310 Immediately call a POISON CENTER or doctor/physician

P303 IF ON SKIN:

P352 Wash with plenty of soap and water.

· **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.