


<p>Page 1 of 5</p> <p>Print Date 03.12.2018</p>	<p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Oleum Geranii verum</p>	 <p>Revision Date 03.12.2018</p>
---	--	---

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

- **Informations to product No. g460**
- **Product name:**

Oleum Geranii verum Geraniumöl, echt Geranium oil, natural

- **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:**

H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H412 Harmful for aquatic life with long lasting effects

- **P-Phrases:**

P273 Avoid release to the environment
P280 Wear protective gloves/protective clothing/eye protection/face protection
P301 IF SWALLOWED:
P331 Do NOT induce vomiting
P315 Get immediate medical advice/attention
P305 IF IN EYES:
P351 Rinse continuously with water for several minutes

Page 2 of 5 Print Date 03.12.2018	Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Oleum Geranii verum	 Revision Date 03.12.2018
--	---	---

Asp. Tox. 1
Skin Irrit. 2
Skin Sens. 1
Eye Dam. 1
Aquatic Chronic 3

3 Composition / information on ingredients

• **Chemical characterization**

CAS-No. Substance name

90082-51-2 Pelargonium Graveolens Oil

• **EINECS-No.:** 290-140-0

• **REACH Reg. No.:** 01-2120769423-50-0000

• **INCI-Name:** Pelargonium Graveolens Oil

• **Description:** Essential oil of pelargonium and geranium species.

Hazardous components:

EINECS: 203-375-0 **Citronellol, Natural**, H411, H315; 25-50%

EINECS: 200-456-2 **Phenylethylalkohol, Natural**, H302, H312; 10-25%

EINECS: 203-341-5 **Geranylacetat, Natural**, H411; 10-25%

EINECS: 203-377-1 **Geraniol, Natural**, H318, H315, H317; 2,5-10%

EINECS: 201-134-4 **Linalool, Natural**, H315; 2,5-10%

EINECS: 233-944-9, **Menthon, Natural**, H226, H412; 2,5-10%

EINECS: 203-378-7 **Nerol, Natural**, H315, ≤2,5%

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

EINECS: 227-813-5 **D-Limonen, Natural**, H226, H304, H400, H410, H315, H317; ≤2,5%


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. Do not induce vomiting.

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.

<p>Page 3 of 5</p> <p>Print Date 03.12.2018</p>	<p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Oleum Geranii verum</p>	 <p>Revision Date 03.12.2018</p>
---	--	---

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 according to Chapter 13 of this MSDS. Clean up with water. 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. Take measures to prevent electrostatic charging.
- **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.


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:** yellow
- **Odour:** strong odour of geranium
- **Melting point / melting range:** not determined
- **Boiling point / boiling range:** 194 °C
- **Flash point:** 94 °C
- **Ignition temperature:** 235 °C
- **Explosion hazard:** The product is not explosive, but explosive mixtures of vapours with air can be formed.
- **Explosion limits:**
- **lower:** 0,8 Vol %
- **upper:** 11,9 Vol %

<p>Page 4 of 5</p> <p>Print Date 03.12.2018</p>	<p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Oleum Geranii verum</p>	 <p>Revision Date 03.12.2018</p>
---	--	---

- **Density:** (20 °C) 0,894 - 0,904 g/cm³
- **Solubility in / Miscibility with**
- **Water** not soluble
- **Refractory index:** (20 °C) 1,466 - 1,476

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:**
Citronellol, Natural
Oral LD50 3450 mg/kg (rat)
Dermal LD50 2650 mg/kg (rabbit)
- **Geranylacetat, Natural**
Oral LD50 6330 mg/kg (rat)
- **Pinen, Natural**
Oral LD50 3700 mg/kg (rat)
- **Primary irritant effect:**
- **on skin:** Irritant effect on skin and mucous membranes.
- **on eyes:** Strong irritations with danger of serious eye damages.
- **Sensitization:** Sensitization by skin contact possible.

12 Ecological information

- **Ecotoxicological effects:**
Harmful 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.
- **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 03.12.2018</p>	<p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Oleum Geranii verum</p>	 <p>Revision Date 03.12.2018</p>
---	--	---

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):** LQ 7
- **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:** GHS08, GHS05, GHS07

- **Signal word:** Danger

- **H-Phrases:**

H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H412 Harmful for aquatic life with long lasting effects

- **P-Phrases:**

P273 Avoid release to the environment
P280 Wear protective gloves/protective clothing/eye protection/face protection
P301 IF SWALLOWED:
P331 Do NOT induce vomiting
P315 Get immediate medical advice/attention
P305 IF IN EYES:

P351 Rinse continuously with water for several minutes

- **National regulations (Germany):**

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

- **Storage class TRGS 510:** 10

- **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.