

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and 2015/830/EU REACH

Revision date: 27/10/2017

Version: 1.1 / EN

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

1.1. Product identifier

Name: Geranium oil

CAS No.: 8000-46-2

EINECS No.: 290-140-0

Reach Registration number: -

1.2. Relevant identified uses of the substance or mixture and uses advised against
aroma chemicals

1.3. Details of the supplier of the safety data sheet

Manufacturer and supplier:

Address:

E-mail address for the competent person responsible for the safety data sheet:

Phone

Fax

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP):

Skin Irrit. 2 - H315; Eye Dam. 1 - H318; Skin Sens. 1 - H317; Asp. Tox. 1 -H304

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

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.

- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P273 - Avoid release to the environment.
 P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician..
 P302+352 - IF ON SKIN: Wash with plenty of soap and water.
 P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P272 - Contaminated work clothing should not be allowed out of the workplace.
 P261 - Avoid breathing vapour/spray.
 P264 - Wash contaminated skin thoroughly after handling.
 P321 - Specific treatment (see medical advice on this label).
 P310 - Immediately call a POISON CENTER or doctor/physician.
 P331 - Do NOT induce vomiting.
 P332+313 - If skin irritation occurs: Get medical advice/attention.
 P333+313 - If skin irritation or rash occurs: Get medical advice/attention.
 P362 - Take off contaminated clothing and wash before reuse.
 P363 - Wash contaminated clothing before reuse.
 P405 - Store locked up.
 P501 - Dispose of contents/container to ...

2.3. Other hazards

The substance does not meet persistent (P), bioaccumulation (B) and toxicity (T) criteria. The product is not PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1. Substances

UVCB substance with identifications as given in Section 1, which contains many constituents of various percentage.

3.2. Hazardous components

Citronellol (30-60%) CAS : 106-22-9 EINECS : 203-375-0	Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Asp. Tox. 1 - H304	Regulation EC 1272/2008
Geraniol (10-30%) CAS : 106-24-1 EINECS : 203-377-1	Skin Irrit. 2 - H315, Eye Dam. 1 - H318, Skin Sens. 1 - H317	Regulation EC 1272/2008
Menthones (5-10%) CAS : 10458-14-7 EINECS : 233-944-9	Flam. Liq. 3 - H226, Acute Tox. 4 - H302, Eye Irrit. 2 - H319, Skin Sens. 1 - H317, Aquatic Chronic 3 - H412	Regulation EC 1272/2008
Linalool (5-10%) CAS : 78-70-6 EINECS : 201-134-4	Skin Irrit. 2 - H315	Regulation EC 1272/2008
Citral (<1%) CAS : 5392-40-5 EINECS : 226-394-6	Skin Irrit. 2 - H315, Skin Sens. 1 - H317	Regulation EC 1272/2008

Pinenes (1-5%) CAS : 80-56-8 EINECS : 201-291-9	<i>Flam. Liq. 3 - H226,</i> <i>Skin Irrit. 2 - H315,</i> <i>Skin Sens. 1 - H317,</i> <i>Asp. Tox. 1 - H304</i>	<i>Regulation EC</i> <i>1272/2008</i>
Limonene (<1%) CAS : 5989-27-5 EINECS : 227-813-5	<i>Flam. Liq. 3 - H226,</i> <i>Skin Irrit. 2 - H315,</i> <i>Skin Sens. 1 - H317,</i> <i>Asp. Tox. 1 - H304</i> <i>Aquatic Acute 1 - H400,</i> <i>Aquatic Chronic 1 - H410</i>	<i>Regulation EC</i> <i>1272/2008</i>

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice:

Remove soaked-contaminated clothing immediately.

If inhaled: Bring accident victims out into the fresh air. Immediately call a doctor.

In case of skin contact: Wash immediately with plenty of soap and water. Apply protective bandage with sterile gauze. Call a doctor.

In case of eye contact: Hold the eyes open and rinse with preferably lukewarm water for at least 10 minutes. Immediately contact an ophthalmologist.

If swallowed: If accidentally swallowed obtain immediate medical attention. Rinse mouth. Do NOT induce vomiting – danger of aspiration.

4.2. Most important symptoms and effects, both acute and delayed

May produce an allergic reaction.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Carbon-dioxide, powder, aqueous extinguishing media. Do not use full water jet.

5.2. Special hazards arising from the substance or mixture

Carbon oxides is produced when burning.

5.3. Advice for firefighter

Special protective equipment: Firemen must wear self-contained breathing apparatus.

Further information: Cool undamaged containers or piping with water. Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation/exhaust extraction. Wear personal protective equipment. Avoid contact with skin and inhalation of its vapours or smoke.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Terminate and take up spills with absorbent material (sand, kieselguhr, universal binder, etc.) or with pumping. Containers in which spilt substance has been collected must be adequately labelled. Dispose of absorbed material in accordance with the regulations preferable with burning.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 7, 8 and 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid formation of aerosols. Smoking, eating and drinking should be prohibited in application area.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store separated from foodstuffs or animal food. Store in a cool and well ventilated place.

7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

No DNEL or PNEC values are available.

8.2. Exposure controls

Respiratory protection:	In case of any possible exposure wear gasmask with fresh air supply.
Hand protection:	Chemical resistant gloves according to EN 374
Skin protection:	Closed working suit
Eye protection:	Safety glasses with side protection shield EN 166.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

a) Appearance:	liquid
b) Colour	no data
c) Odour:	no data
d) Odour threshold:	no data
e) pH-value:	no data
f) Melting point/freezing point:	no data
g) Boiling range:	no data
h) Flash point:	>64°C CC (Closed cup)
i) Evaporation rate:	no data
j) Flammability (solid, gaseous):	not relevant
k) Ignitable, explosive range:	no data

- l) Vapour pressure: no data
- m) Vapour density: no data
- n) Density: no data
- o) Solubility: no data
- p) Partition coefficient n-octanol/water: no data
- q) Decomposition temperature no data
- r) Self-ignition temperature: no data
- s) Viscosity: no data
- t) Explosive properties: no data
- u) Oxidising properties: no data

9.2. Other information

No data

SECTION 10: Stability and reactivity

10.1. Reactivity

No data.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

No data.

10.4. Conditions to avoid

Direct sunshine.

10.5. Incompatible materials

No data.

10.6. Hazardous decomposition products

Not know.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

There is no measurement data on the product itself. Classification is based on the data of the constituents.

SECTION 12: Ecological information

12.1. Toxicity

No data.

12.2. Persistence and degradability

The product is biodegradable.

12.3. Bioaccumulative potential

No data

12.4. Mobility in soil

No data

12.5. Results of PBT and vPvB assessment

No data.

12.6. Other adverse effects
No data.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Substance: Waste disposal by ignition in accordance with international, national and local regulations.

Packaging, waste product and materials used for absorbing spills should be disposed of in the same manner as the substance.

SECTION 14: Transport information

The product is in accordance with the conventions governing the transportation of dangerous goods (ADR, IMDG, LATA) non- dangerous goods.

14.1. UN number: -

14.2. UN proper shipping name: -

14.3. Transport hazard class(es) – packaging group

Carriage of dangerous goods by road-ADR:

Class: -, classification code: -, packing group: -, dangerous for environment: no limited quantities: -, excepted quantities: -

hazard identification number: -, transport category: -, tunnel restriction code: -

Sea transport-IMDG

class: -, packing group: -

EMS: -, Marine pollutant: -

Air transport –ICAO:

class: -, packing group: -

Labels: -

14.5. Environmental hazards: no

14.6. Special precautions for users: See sections 6 – 8.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: no data

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislations specific for the substance or mixture

Not specifically mentioned in any regulation.

15.2. Chemical Safety Assessment

Exempted in accordance with REACH regulation.

SECTION 16: Other information'

The information given corresponds with our actual knowledge and experience. This information is meant to describe our product in view of possible safety requirements and cannot be considered as a specification for the quality requirements of the product.

16.1. Indication of changes

This version replaces all previous versions and shall be considered as changed in each section.

16.2. Abbreviations and acronyms

Carc.: Carcinogenicity

CAS number: Chemical Abstracts Service number

CLP: Classification Labelling Packaging Regulation

CSR: Chemical Safety Report

DNEL: Derived No Effect Level

EC: European Commission

EC number: EINECS and ELINCS number

EC50: Half maximal effective concentration

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

Irrit.: Irritation

LC50: Lethal concentration, 50 %

LD50: Median Lethal dose

PBT: Persistent, Bioaccumulative and Toxic

PNEC: Predicted No Effect Concentration

REACH: The Registration, Evaluation, Authorisation and Restriction of Chemicals

Resp.: Respiratory

Sens.: Sensitisation

Tox.: Toxicity

vPvB: Very Persistent and Very Bioaccumulative

16.3. Key literature references and sources for data: *Classification inventory data published on the website of the European Chemical Agency and own measurements.*