

**GERANIUM ESSENTIAL OIL - PG**



**SAFETY DATA SHEET**

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

**SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

CAS EU: 90082-51-2  
CSA TSCA: 8000-46-2  
EINECS-ELINCS: 290-140-0  
REACH: 01-2120769423-50  
Product name: GERANIUM ESSENTIAL OIL  
Taxonomy: Pelargonium graveolens  
Product code : PG

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

Uses : flavors and fragrances

**1.3. Details of the supplier of the safety data sheet**

Registered company name : HERBAL FAMILY Group.  
Address : Industrial zone B & C piece 203 - Obour City, Cairo - Egypt. .18111...  
Telephone : +202 4478 7540/48. Fax : +202 4478 8899.  
Email: hfg@herbalfamilyegypt.com  
Website: www.herbalfamilyegypt.com  
Distributor : HERBAL FAMILY France.  
Address : 400 Avenue Roumanille Quartier Des Templiers  
Zac St. Philippe II -06410 Biot B.P 06906 Sophia Antipolis  
Tél : 003 492 60 7654

**1.4. Emergency telephone number : +2 0128 403 1111**

Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>.

**SECTION 2 : HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Eye irritation, Category 2 (Eye Irrit. 2, H319).

Skin sensitisation, Category 1B (Skin Sens. 1B, H317).

This substance does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This substance does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

**2.2. Label elements**

**In compliance with EC regulation No. 1272/2008 and its amendments.**

Hazard pictograms :



GHS07

Signal Word :

WARNING

Product identifiers (list of classified components) :

|              |                    |
|--------------|--------------------|
| EC 203-375-0 | CITRONELLOL        |
| EC 203-377-1 | GERANIOL           |
| EC 201-134-4 | LINALOOL           |
| EC 226-394-6 | CITRAL             |
| EC 201-941-1 | MENTHONE           |
| EC 201-746-1 | BETA CARYOPHYLLENE |
| EC 203-378-7 | NÉROL              |
| EC 227-813-5 | D-LIMONENE         |

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## Hazard statements :

H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.

## Precautionary statements - Prevention :

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

## Precautionary statements - Response :

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P337 + P313 If eye irritation persists: Get medical advice/attention.  
 P362 + P364 Take off contaminated clothing and wash it before reuse.

## Precautionary statements - Disposal :

P501 Dispose of contents/container to hazardous or special waste collection point.

**2.3. Other hazards**

The substance does not fulfil the PBT or vPvP criteria in accordance with annexe XIII of the REACH regulations EC 1907/2006.

**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS****3.1. Substances****Composition :**

| Identification                                      | (EC) 1272/2008  | Note | %       |
|---|---|------|---------|
| CAS: 106-22-9<br>EC: 203-375-0<br>CITRONELLOL       | GHS07<br>Wng<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Eye Irrit. 2, H319  |      | 28 - 35 |
| CAS: 106-24-1<br>EC: 203-377-1<br>GERANIOL          | GHS07, GHS05<br>Dgr<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Eye Dam. 1, H318  |      | 11 - 18 |
| CAS: 78-70-6<br>EC: 201-134-4<br>LINALOOL           | GHS07<br>Wng<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Eye Irrit. 2, H319  |      | 3 - 8   |
| CAS: 5392-40-5<br>EC: 226-394-6<br>CITRAL           | GHS07<br>Wng<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317  | [1]  | 0 - 2   |
| CAS: 89-80-5<br>EC: 201-941-1<br>MENTHONE           | GHS07<br>Wng<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317  |      | 0.5 - 3 |
| CAS: 87-44-5<br>EC: 201-746-1<br>BETA CARYOPHYLLENE | GHS07, GHS08<br>Dgr<br>Asp. Tox. 1, H304<br>Skin Sens. 1B, H317   |      | 0.5 - 3 |
| CAS: 106-25-2<br>EC: 203-378-7<br>NÉROL             | GHS07, GHS05<br>Dgr<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Eye Dam. 1, H318  |      | 0 - 2   |
| CAS: 5989-27-5<br>EC: 227-813-5<br>D-LIMONENE       | GHS07, GHS09, GHS08, GHS02<br>Dgr<br>Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400<br>M Acute = 1<br>Aquatic Chronic 1, H410<br>M Chronic = 1 | [1]  | 0 - 2   |

**Information on ingredients :**

[1] Substance for which maximum workplace exposure limits are available.

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**SECTION 4 : FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

**4.1. Description of first aid measures**

**In the event of exposure by inhalation :**

Remove to fresh air. Give oxygen and call a physician.

**In the event of splashes or contact with eyes :**

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

**In the event of splashes or contact with skin :**

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

**In the event of swallowing :**

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Seek medical attention immediately, showing the label.

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

No data available.

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

No data available.

**SECTION 5 : FIREFIGHTING MEASURES**

Non-flammable.

**5.1. Extinguishing media**

**Suitable methods of extinction**

In the event of a fire, use :

No data available.

**Unsuitable methods of extinction**

In the event of a fire, do not use :

No data available.

**5.2. Special hazards arising from the substance or mixture**

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)

- carbon dioxide (CO<sub>2</sub>)

**5.3. Advice for firefighters**

No data available.

**SECTION 6 : ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

**For non first aid worker**

Avoid any contact with the skin and eyes.

**For first aid worker**

First aid workers will be equipped with suitable personal protective equipment (See section 8).

**6.2. Environmental precautions**

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

**6.3. Methods and material for containment and cleaning up**

Clean preferably with a detergent, do not use solvents.

**GERANIUM ESSENTIAL OIL - PG****6.4. Reference to other sections**

No data available.

**SECTION 7 : HANDLING AND STORAGE**

Requirements relating to storage premises apply to all facilities where the substance is handled.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this substance.

**7.1. Precautions for safe handling**

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

**Fire prevention :**

Prevent access by unauthorised personnel.

**Recommended equipment and procedures :**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid skin and eye contact with this substance.

**Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the substance is used.

**7.2. Conditions for safe storage, including any incompatibilities**

No data available.

**Packaging**

Always keep in packaging made of an identical material to the original.

**7.3. Specific end use(s)**

No data available.

**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters****Occupational exposure limits :**

- Germany - AGW (BAuA - TRGS 900, 29/01/2018) :

| CAS       | VME : | VME :                         | Excess | Notes |
|-----------|-------|-------------------------------|--------|-------|
| 5989-27-5 |       | 5 ppm<br>28 mg/m <sup>3</sup> |        | 4(II) |

- Spain (Instituto Nacional de Seguridad e Higiene en el Trabajo (INSHT), 2017) :

| CAS       | TWA :                           | STEL : | Ceiling : | Definition :             | Criteria : |
|-----------|---------------------------------|--------|-----------|--------------------------|------------|
| 5392-40-5 | 5 ppm                           |        |           | via dermica,<br>Sen, FIV |            |
| 5989-27-5 | 30 ppm<br>168 mg/m <sup>3</sup> |        |           | Sen, via<br>dermica      |            |

- Switzerland (SUVAPRO 2017) :

| CAS       | VME                           | VLE                            | Valeur plafond | Notations |
|-----------|-------------------------------|--------------------------------|----------------|-----------|
| 5989-27-5 | 7 ppm<br>40 mg/m <sup>3</sup> | 14 ppm<br>80 mg/m <sup>3</sup> |                | S SSC     |

**Derived no effect level (DNEL) or derived minimum effect level (DMEL):**

LINALOOL (CAS: 78-70-6)

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Dermal contact.  
Long term systemic effects.  
2.5 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Dermal contact.  
Short term systemic effects.  
8 mg of substance/cm<sup>2</sup>

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term systemic effects.  
2.75 mg of substance/m<sup>3</sup>

**8.2. Exposure controls**

**GERANIUM ESSENTIAL OIL - PG****Personal protection measures, such as personal protective equipment**

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

**- Eye / face protection**

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

**- Hand protection**

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Recommended properties :

- Impervious gloves in accordance with standard EN374

**- Body protection**

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties****General information :**

Physical state : Fluid liquid.

**Important health, safety and environmental information**

pH : Not relevant.

Boiling point/boiling range : Not specified.

Flash Point : 85.00 °C.

Vapour pressure (50°C) : Not relevant.

Density : 0,883 - 0,903 (20°C)

Water solubility : Insoluble.

Melting point/melting range : Not specified.

Self-ignition temperature : Not specified.

Decomposition point/decomposition range : Not specified.

**9.2. Other information**

No data available.

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**SECTION 10 : STABILITY AND REACTIVITY**

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

This substance is stable under the recommended handling and storage conditions in section 7.

**10.3. Possibility of hazardous reactions**

No data available.

**10.4. Conditions to avoid**

No data available.

**10.5. Incompatible materials**

No data available

**10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

**SECTION 11 : TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

May cause an allergic reaction by skin contact.

**11.1.2 Complex substance**

**Serious damage to eyes/eye irritation :**

Iritis : 1 <= Average score <= 1.5 and effects totally reversible within 7 days of observation  
OECD Guideline 438 (Isolated Chicken Eye Test Method for Identifying Ocular Corrosives and Severe Irritants)

**Monograph(s) from the IARC (International Agency for Research on Cancer) :**

CAS 5989-27-5 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

**SECTION 12 : ECOLOGICAL INFORMATION**

**12.1. Toxicity**

**12.1.2 Complex substance**

**12.2. Persistence and degradability**

**12.2.1. Substances**

CITRONELLOL (CAS: 106-22-9)

Biodegradability :

no degradability data is available, the substance is considered as not degrading quickly.

**12.2.2 Complex substance**

Biodegradability :

Rapidly degradable.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

No data available.

**12.6. Other adverse effects**

No data available.

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**SECTION 13 : DISPOSAL CONSIDERATIONS**

Proper waste management of the substance and/or its container must be determined in accordance with Directive 2008/98/EC.

**13.1. Waste treatment methods**

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

**SECTION 14 : TRANSPORT INFORMATION**

Exempt from transport classification and labelling.

**14.1. UN number**

-

**14.2. UN proper shipping name**

-

**14.3. Transport hazard class(es)**

-

**14.4. Packing group**

-

**14.5. Environmental hazards**

-

**14.6. Special precautions for user**

-

**SECTION 15 : REGULATORY INFORMATION**

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

**- Classification and labelling information included in section 2:**

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2017/776 (ATP 10)

**- Container information:**

No data available.

**- Particular provisions :**

No data available.

**15.2. Chemical safety assessment**

No data available.

**SECTION 16 : OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the substance and not as a guarantee of the properties thereof.

**Wording of the phrases mentioned in section 3 :**

|      |   |
|------|---|
| H226 | Flammable liquid and vapour.                  |
| 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.                    |
| H319 | Causes serious eye irritation.                |
| H400 | Very toxic to aquatic life.                   |

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H410

Very toxic to aquatic life with long lasting effects.

**Abbreviations :**

DNEL : Derived No-Effect Level

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

GHS07 : Exclamation mark

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.