



## SAFETY DATA SHEET

(In compliance with EU regulation 1907/2006 and its adaptations)

### GERANIUM ESSENTIAL OIL, BOURBON TYPE

Document Number: FO-QCD-EO-SDS-7

Version: 4.0

Creation date: 16.09.2016

Page 1 of 16

Date of previous revision: 27.08.2019

Effective date: 20.04.2021

## I. Identification of the substance/ mixture and of the company / undertaking

### 1.1 Product identifier

**INCI NAME:** *Pelargonium graveolens* oil / *Pelargonium asperum* oil  
**COMMERCIAL NAME:** Geranium essential oil, bourbon type - organic and conventional  
**CAS:** 90082-51-2  
**EC:** 290-140-0  
**REACH registration number:** 01-2120769423-50-0023

Processes used for the manufacture of the substance:

Water steam distillation of the leaves of *Pelargonium graveolens* / *Pelargonium asperum* and subsequent separation of the water from the essential oil. The subsequent separation is a spontaneous physical process, which normally takes place in a separator (Florentine flask) enabling an easy isolation of the separated oil.

### 1.2 Relevant identified uses of the substances or mixture and uses advised against

Fragrance, Flavour and Cosmetic - Do not use during pregnancy or breastfeeding, do not use in children younger than 30 months.

### 1.3 Details on the supplier of the safety data sheet

Fairoils SRL  
15 Rue des Gaulois  
7822 Ghislenghien  
Belgium  
Tel: +32 486 693 850  
[info@fairoils.com](mailto:info@fairoils.com)

### 1.4 Emergency telephone number

#### Poison control center:

**Belgium:** 003270 24 52 45  
**France:** Angers: 0033 2 41 48 21 21 Nancy: 0033 3 83 22 50 50  
Bordeaux: 0033 5 56 96 40 80 Paris: 0033 1 40 05 48 48  
Lille: 0033 8 25 812 822 Rennes: 0033 2 99 59 22 22  
Lyon: 0033 4 72 11 69 11 Strasbourg: 0033 3 88 37 37 37  
Marseille: 0033 4 91 75 25 25 Toulouse: 0033 5 61 77 74 47  
**Germany:** Berlin: 0049 30 19 240  
**Spain:** 0034 91 562 04 20  
**United States:** 1-800-222-1222



## SAFETY DATA SHEET

(In compliance with EU regulation 1907/2006 and its adaptations)

### GERANIUM ESSENTIAL OIL, BOURBON TYPE

Document Number: FO-QCD-EO-SDS-7

Version: 4.0

Creation date: 16.09.2016

Page 2 of 16

Date of previous revision: 27.08.2019

Effective date: 20.04.2021

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B, Aquatic Chronic 2

### 2.2 Label elements

**Signal Word:** Danger

**Hazard Statement:** H315: Skin corrosion/ irritation, Hazard Category 2  
H317: Skin sensitisation, Hazard Category 1  
H319: Causes serious eye irritation, Hazard Category 2  
H411: Toxic to the aquatic environment – Chronic Hazard Category 2

**Precautionary statement prevention:** P261, P264, P272, P273, P280

**Precautionary statement response:** P302 + P352, P305 + P351 + P338, P321, P332+P313, P333 + P313, P337 + P313, P362, P363, P391

**Precautionary statement Storage:** -

**Precautionary statement disposal:** P501



### 2.3 Other hazards

Allergens: Limonene, Citronellol, Geraniol, Linalool, Citral (Geranial + Neral), Geranial

## 3 Composition/ Information on ingredients:

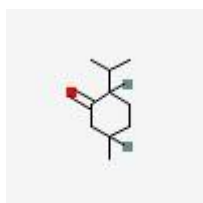
### 3.1 Substance:

Natural Complex Substance (NCS), 100% pure and natural

**Name: Isomenthone; IUPAC name: 5-methyl-2-propan-2-ylcyclohexan-1-one; 3.5 to 13%**

SMILES: CC1CCC(C(=O)C1)C(C)C

Molecular Formula: C10 H18 O





## SAFETY DATA SHEET

(In compliance with EU regulation 1907/2006 and its adaptations)

### GERANIUM ESSENTIAL OIL, BOURBON TYPE

Document Number: FO-QCD-EO-SDS-7

Version: 4.0

Creation date: 16.09.2016

Page 3 of 16

Date of previous revision: 27.08.2019

Effective date: 20.04.2021

EC number: 207-727-4

CAS number: 491-07-6

Skin Irrit. 2, Eye Irrit. 2

Signal word: Warning

H315, H319

P264, P280

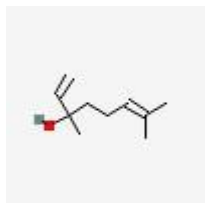
P302 + P352, P305 + P351 + P338, P321, P332 + P313, P337 + P313, P362



**Name: Linalool; IUPAC name: 3,7-dimethylocta-1,6-dien-3-ol; 1 to 10%**

SMILES: CC(=CCCC(C)(C=C)O)C

Molecular formula: C<sub>10</sub> H<sub>18</sub> O



EC number: 201-134-4

CAS number: 78-70-6

Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1

H315, H317, H319

P261, P264, P272, P280

P302 + P352, P305 + P351 + P338, P321, P332 + P313, P333 + P313, P337 + P313, P362, P363

P501





## SAFETY DATA SHEET

(In compliance with EU regulation 1907/2006 and its adaptations)

### GERANIUM ESSENTIAL OIL, BOURBON TYPE

Document Number: FO-QCD-EO-SDS-7

Version: 4.0

Creation date: 16.09.2016

Page 4 of 16

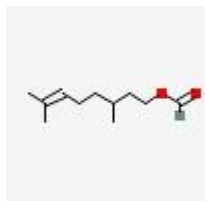
Date of previous revision: 27.08.2019

Effective date: 20.04.2021

**Name: Citronellyl formate; IUPAC Name: 3,7-dimethyloct-6-en-1-yl formate; 2 to 14%**

SMILES: CC(CCC=C(C)C)CCOC=O

Molecular Formula: C<sub>11</sub> H<sub>20</sub> O<sub>2</sub>



EC number: 203-338-9

CAS number: 105-85-1

Signal word: Warning

Skin Irrit. 2, Skin Sens. 1

H315, H317

P261, P264, P272, P280

P302 + P352, P321, P332 + P313, P333+313, P362, P363

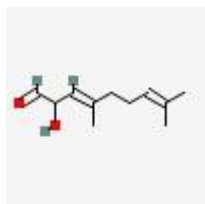
P501



**Name: Geranyl formate; IUPAC names: (2E)-3,7-dimethylocta-2,6-dien-1-yl formate; 1 to 8%**

SMILES: CC(=CCC/C(=C/COC=O)/C)C

Molecular Formula: C<sub>11</sub> H<sub>18</sub> O<sub>2</sub>



EC number: 203-339-4

CAS number: 105-86-2

Signal word: Warning



## SAFETY DATA SHEET

(In compliance with EU regulation 1907/2006 and its adaptations)

### GERANIUM ESSENTIAL OIL, BOURBON TYPE

Document Number: FO-QCD-EO-SDS-7

Version: 4.0

Creation date: 16.09.2016

Page 5 of 16

Date of previous revision: 27.08.2019

Effective date: 20.04.2021

Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 2

H317, H410, H411

P261, P272, P273, P280

P302 + P352, P321, P333 + P313, P363, P391

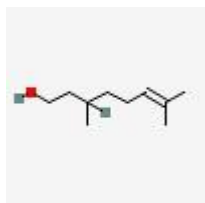
P501



**Name: Beta-citronellol; IUPAC Name: 3,7-dimethyloct-6-en-1-ol; 18 to 43%**

SMILES: CC(CCC=C(C)C)CCO

Molecular Formula: C10 H20 O



EC number: 203-375-0

CAS number: 106-22-9

Signal word: Warning

Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1

H315, H317, H319

P261, P264, P272, P273, P280

P302 + P352, P305 + P351 + P338, P321, P332 + P313, P333 + P313, P337 + P313, P362, P363

P501





## SAFETY DATA SHEET

(In compliance with EU regulation 1907/2006 and its adaptations)

### GERANIUM ESSENTIAL OIL, BOURBON TYPE

Document Number: FO-QCD-EO-SDS-7

Version: 4.0

Creation date: 16.09.2016

Page 6 of 16

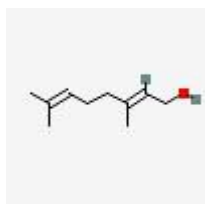
Date of previous revision: 27.08.2019

Effective date: 20.04.2021

**Name: Geraniol; IUPAC names: (2E)-3,7-dimethylocta-2,6-dien-1-ol; 5 to 24%**

SMILES: CC(=CCC/C(=C/CO)/C)C

Molecular Formula: C<sub>10</sub> H<sub>18</sub> O



EC number: 203-377-1

CAS number: 106-24-1

Signal word: Danger

Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1

H315, H317, H318

P261, P264, P272, P280

P302 + P352, P305 + P351 + P338, P321, P332 + P313, P333 + P313, P337 + P313, P362, P363

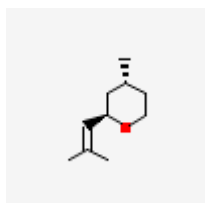
P501



**Name: trans-Rose oxide; IUPAC name: (2R,4R)-4-methyl-2-(2-methylprop-1-enyl)oxane; 1 to 4%**

SMILES: CC1CCOC(C1)C=C(C)C

Molecular Formula: C<sub>10</sub> H<sub>18</sub> O



EC number: n.a.

CAS number: 876-18-6

No important hazards found.



## SAFETY DATA SHEET

(In compliance with EU regulation 1907/2006 and its adaptations)

### GERANIUM ESSENTIAL OIL, BOURBON TYPE

Document Number: FO-QCD-EO-SDS-7

Version: 4.0

Creation date: 16.09.2016

Page 7 of 16

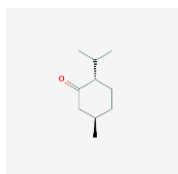
Date of previous revision: 27.08.2019

Effective date: 20.04.2021

**Name: Menthone; IUPAC name: (2S,5R)-5-methyl-2-propan-2-ylcyclohexan-1-one; 0 to 3%**

SMILES: CC1CCC(C(=O)C1)C(C)C

Molecular Formula: C10 H18 O



EC number: 201-941-1

CAS number: 89-80-5

Signal word: Danger

Acute tox.4, Aquatic Chronic 3

H302, H412

P264, P270, P273

P301+P312, P330

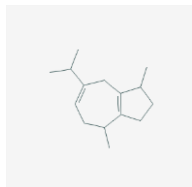
P501



**Name: 6,9-Guaiadiene; IUPAC name: 1,4-dimethyl-7-propan-2-yl-1,2,3,4,5,8-hexahydroazulene; 0 to 14%**

SMILES: CC1CCC2=C1CC(=CCC2C)C(C)C

Molecular Formula: C15 H24



No important hazards found.



## SAFETY DATA SHEET

(In compliance with EU regulation 1907/2006 and its adaptations)

### GERANIUM ESSENTIAL OIL, BOURBON TYPE

Document Number: FO-QCD-EO-SDS-7

Version: 4.0

Creation date: 16.09.2016

Page 8 of 16

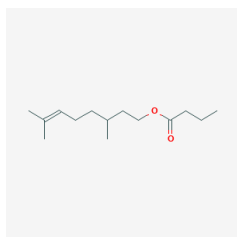
Date of previous revision: 27.08.2019

Effective date: 20.04.2021

**Name: Cytronellyl butyrate; IUPAC name: 3,7-dimethyloct-6-enyl butanoate; 0 to 2%**

SMILES: CCCC(=O)OCCC(C)CCC=C(C)C

Molecular Formula: C<sub>14</sub>H<sub>26</sub>O<sub>2</sub>



EC number: 205-463-4

CAS number: 141-16-2

Signal word: Danger

Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1

H317, H400, H410

P261, P272, P273, P280

P302+P352, P333+P313, P321, P363, P391

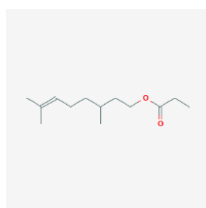
P501



**Name: Cytronellyl propionate; IUPAC name: 3,7-dimethyloct-6-enyl propanoate; 0 to 2%**

SMILES: CCC(=O)OCCC(C)CCC=C(C)C

Molecular Formula: C<sub>13</sub>H<sub>24</sub>O<sub>2</sub>



EC number: 205-461-3

CAS number: 141-14-0

No important hazards found.





## SAFETY DATA SHEET

(In compliance with EU regulation 1907/2006 and its adaptations)

### GERANIUM ESSENTIAL OIL, BOURBON TYPE

Document Number: FO-QCD-EO-SDS-7

Version: 4.0

Creation date: 16.09.2016

Page 9 of 16

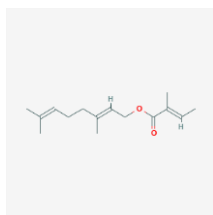
Date of previous revision: 27.08.2019

Effective date: 20.04.2021

**Name: Geranyl tiglate; IUPAC name: [(2E)-3,7-dimethylocta-2,6-dienyl] (E)-2-methylbut-2-enoate; 0 to 4%**

SMILES: CC=C(C)C(=O)OCC=C(C)CCC=C(C)C

Molecular Formula: C<sub>15</sub>H<sub>24</sub>O<sub>2</sub>



EC number: 232-078-9

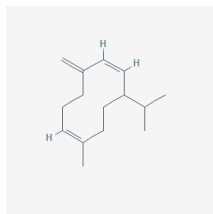
CAS number: 7785-33-3

No important hazards found.

**Name: Germacrene D; IUPAC name: (1Z,6Z)-1-methyl-5-methylidene-8-propan-2-ylcyclodeca-1,6-diene; 0 to 4%**

SMILES: CC1=CCCC(=C)C=CC(CC1)C(C)C

Molecular Formula: C<sub>15</sub>H<sub>24</sub>



CAS number: 37839-63-7

No important hazards found.

Contains no other ingredients that are classified according to the current state of knowledge and that contribute to the classification of the substance and that must therefore be mentioned in this section.

## 4. First aid measures

### 4.1. Description of first aid measures

**AFTER INHALATION:** Supply fresh air and to be sure call for a doctor.

**AFTER SKIN CONTACT:** If skin irritation continues, consult a doctor.

**AFTER EYE CONTACT:** Rinse opened eye for several minutes under running water.



## SAFETY DATA SHEET

(In compliance with EU regulation 1907/2006 and its adaptations)

### GERANIUM ESSENTIAL OIL, BOURBON TYPE

Document Number: FO-QCD-EO-SDS-7

Version: 4.0

Creation date: 16.09.2016

Page 10 of 16

Date of previous revision: 27.08.2019

Effective date: 20.04.2021

**IN THE EVENT OF INGESTION:** rinse mouth with water and get medical advice. Do not induce vomiting unless directed by medical personnel. Seek medical attention immediately.

If symptoms persist, consult a doctor.

After swallowing: Seek immediate medical advice.

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

The most important known symptoms and effects are described in the labeling of the product (Section 2) and / or in section 11. Further symptoms are possible.

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

Symptomatic treatment.

## **5. Firefighting measures**

### **5.1 Extinguishing media**

**RECOMMENDED:** CO<sub>2</sub>, sand, extinguishing powder

**INADVISABLE:** direct water jet

Use fire extinguishing methods suitable to surrounding conditions.

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

May produce toxic gases (carbon oxides) upon burning.

### **5.3 Advice for fire fighters**

**Protective equipment:** Do not inhale explosion gases or combustion gases.

Fire fighters should wear positive pressure self-contained breathing apparatus.

Closed containers may build up pressure under elevated temperatures. If possible, containers should be cooled with a water spray.

## **6. Accidental release measures**

### **6.1 Personal precaution, protective equipment and emergency procedures**

Keep away from open fire or other sources of ignition

Prevent contact with eyes and skin. Wear eye shields or protective clothing.

Avoid inhalation of vapours.


Keep away from open fire or other sources of ignition.

### **6.2 Environmental precautions**

Contain spilled material to avoid a possible contamination of the environment.

Avoid any discharge in the sewer system and in natural environment.

Inform respective authorities in case of seepage into water course or sewage system

	<b>SAFETY DATA SHEET</b> (In compliance with EU regulation 1907/2006 and its adaptations)	
	<b>GERANIUM ESSENTIAL OIL, BOURBON TYPE</b>	
	Document Number: FO-QCD-EO-SDS-7	Version: 4.0
Creation date: 16.09.2016 Date of previous revision: 27.08.2019 Effective date: 20.04.2021		Page 11 of 16

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

Dispose contaminated material as waste according to disposal considerations.

Cover with an inert, non-combustible, inorganic absorbent material.

Sweep up and remove to an approved disposal container.

### **6.4 Reference to other sections:**

See section 8 and 13.

## **7. Handling and storage**

### **7.1 Precautions for safe handling**

Store in cool, dry place in tightly closed receptacles.

Keep away from heat and direct sunlight.

To avoid fire hazards, products should not be heated with or exposed to open flames or other sources of ignition.

During the introduction of the ingredients into the final product, ingredients should be normally kept at relatively low temperatures.

Ensure good ventilation/exhaustion at the workplace.

Measures should be taken to prevent materials from being splashed into the eyes or the skin. This should include wearing eye shields and protective clothing.

Maintain adequate air circulation in the working areas.

Smoking should not be permitted in areas where the product is handled.

Materials used for cleaning up spillages should be disposed of promptly, preferably by incineration as cases of spontaneous combustion of product soaked in rags have been reported.

### **7.2 Storage**

Store in closed containers, away from heat sources, air or light and protected from extremes of temperature.

Prevent any seepage into the ground.

### **7.3 Specific end use**

Comply with regulations and specifications of the product. No specific recommendations. Apply the rules of handling above.

## **8. Exposure controls/ Personal protection**

### **8.1 Control parameters**

Ventilation: provide adequate ventilation, use local exhaust fan if necessary

Occupational exposure limit values in accordance with Directive 98/24/EC: no data available



## SAFETY DATA SHEET

(In compliance with EU regulation 1907/2006 and its adaptations)

### GERANIUM ESSENTIAL OIL, BOURBON TYPE

Document Number: FO-QCD-EO-SDS-7

Version: 4.0

Creation date: 16.09.2016

Page 12 of 16

Date of previous revision: 27.08.2019

Effective date: 20.04.2021

#### **8.2 Exposure controls**

Personal protective equipment:

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.

Eye protection: the use of safety glasses is recommended

Hand protection: the use of chemical resistant gloves is recommended

Skin protection: usual precautions

Respiratory protection: in well ventilated areas, respiratory protection is not normally required; in confined poorly ventilated areas, respiratory protection may be required.

## 9. Physical and chemical properties

### **9.1 Information on basic physical and chemical properties**

#### **(a) Appearance:**

**Physical state:** liquid

**Colour:** clear green to amber

**(b) Odour:** characteristic, tangy

**(c) Odour threshold:** not determined

**(d) pH:** not determined

**(e) Melting point/freezing point:** not determined

**(f) Initial boiling point and boiling range:** not determined

**(g) Flash point:** not determined

**(h) Evaporation rate:** not determined

**(i) Flammability (solid, gas):** not classified

**(j) Upper/lower flammability or explosive limits:** not determined

**(k) Vapour pressure:** not determined

**(l) Vapour density:** not determined

**m) Relative density:** 0.885-0.897

**(n) Solubility (ies):** insoluble in water, liposoluble

**(o) Partition coefficient: n-octanol/water:** not determined

**(p) Auto-ignition temperature:** not determined

**(q) Decomposition temperature:** not determined

**(r) Viscosity:** not determined

**(s) Explosive properties:** non explosive

**(t) Oxidising properties:** not determined

#### **9.2 Other information**

No data available

## 10. Stability and reactivity

#### **10.1 Reactivity:**

no data available



## SAFETY DATA SHEET

(In compliance with EU regulation 1907/2006 and its adaptations)

### GERANIUM ESSENTIAL OIL, BOURBON TYPE

Document Number: FO-QCD-EO-SDS-7

Version: 4.0

Creation date: 16.09.2016

Page 13 of 16

Date of previous revision: 27.08.2019

Effective date: 20.04.2021

- 10.2 Chemical stability:** presents no significant reactivity hazard, by itself or in contact with water.
- 10.3 Possibility of hazardous reactions:** no data available
- 10.4 Conditions to avoid:** excessive heat, open flames or other sources of ignition
- 10.5 Incompatible materials:** avoid contact with strong acids, alkali or oxidizing agents.
- 10.6 Hazardous decomposition products:** carbon monoxide and unidentified organic compounds may be formed during combustion.

## 11. Toxicological information

### Information on toxicological effects

- (a) Acute toxicity:** no adverse effect observed
- (b) Skin corrosion/irritation:** Skin irritation using read across from Citronellol (OECD TG 404): irritating
- (c) Serious eye damage/irritation:** no data available
- (d) Respiratory or skin sensitisation:** Skin sensitisation (OECD TG 429): Sensitising
- (e) Germ cell mutagenicity:** no data available
- (f) Carcinogenicity:** no data available
- (g) Reproductive toxicity:** no data available
- (h) STOT-single exposure:** no data available
- (i) STOT-repeated exposure:** no data available
- (j) Aspiration hazard:** aspiration toxicity cannot be excluded

**Information on likely routes of exposure:** no data available

**Symptoms related to the physical, chemical and toxicological characteristics:** no data available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure:** no data available

**Interactive effects:** no data available

**11.2 Other information on toxicological effects:** no data available

## 12. Ecological information

- 12.1. Toxicity:** Toxic to aquatic life with long lasting effects.
- 12.2. Persistence and degradability:** no data available
- 12.3. Bio accumulative potential:** no data available



## SAFETY DATA SHEET

(In compliance with EU regulation 1907/2006 and its adaptations)

### GERANIUM ESSENTIAL OIL, BOURBON TYPE

Document Number: FO-QCD-EO-SDS-7

Version: 4.0

Creation date: 16.09.2016

Page 14 of 16

Date of previous revision: 27.08.2019

Effective date: 20.04.2021

**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

## 13. Disposal considerations

### 13.1. Waste treatment methods:

Recommendation: Must be specially treated adhering to official regulations.

Excessive quantities should not be permitted to enter drains, sewers or watercourses.

Uncleaned packaging: Recommendation: Disposal must be made according to official regulations.

## 14. Transport information

**14.1 UN number:** UN 3082

**14.2. UN proper shipping name:** Environmentally hazardous substance, liquid, n.o.s

**14.3. Transport hazard class (es):** 9

**14.4. Packing group:** III

**14.5. Environmental hazards:** Hazardous to the aquatic environment –Chronic hazard, Category 2; marine pollutant: yes

**14.6. Special precautions for user:** Store in closed containers, away from heat sources, air or light and protected from extremes of temperature.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** not concerned

## 15. Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

This SDS was written in accordance with Regulation (EC) No. 1907/2006 and its adaptations, modified by Regulation (EU) n°521/2019.

### 15.2 Chemical safety assessment:

No chemical safety assessment has been carried out.



## SAFETY DATA SHEET

(In compliance with EU regulation 1907/2006 and its adaptations)

### GERANIUM ESSENTIAL OIL, BOURBON TYPE

Document Number: FO-QCD-EO-SDS-7

Version: 4.0

Creation date: 16.09.2016

Page 15 of 16

Date of previous revision: 27.08.2019

Effective date: 20.04.2021

## 16. Other information

This safety data sheet completes the specification sheet but does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product. However, we cannot accept responsibility or liability for any consequences arising from its use.

We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned.

It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.

**Indication of changes:** New safety data sheet in accordance with EC 521/2019

### Legend to abbreviations and acronyms used:

EC: European Community

INCI: International Nomenclature of Cosmetic Ingredients

CAS: Chemical Abstract Service

EINECS: European Inventory of Existing Commercial Chemical Substance

Irrit.: irritation

Sens: sensitisation

Tox.: toxicity

pH: potential Hydrogen

STOT: Specific Target Organ Toxicant

PBT: persistent bio accumulative toxic chemical

vPvB: very Persistent very Bio accumulative chemical

UN: United Nations

### **Bibliography:**

#### **List of relevant hazard statements, safety phrases and/or precautionary statements:**

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H410: Very toxic to aquatic life with long lasting effects.

H411: Toxic to aquatic life with long lasting effects.

P233: Keep container tightly closed.

P261: avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264: wash hands thoroughly after handling

P270: Do not eat, drink or smoke when using this product.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: avoid release to the environment



## SAFETY DATA SHEET

(In compliance with EU regulation 1907/2006 and its adaptations)

### GERANIUM ESSENTIAL OIL, BOURBON TYPE

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Page 16 of 16

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P280: wear protective gloves/ protective clothing/ eye protection/ face protection

P302 + P352: IF ON SKIN: wash with plenty of soap and water

P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338: IF IN EYES; rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P321: specific treatment (see on this label)

P330: Rinse mouth.

P332 + P313: if skin irritation occurs: get medical advice/ attention

P333 + P313: if skin irritation or rash occurs: get medical advice/ attention

P337 + P313: if eye irritation persists: get medical advice/ attention

P362: take off contaminated clothing and wash before reuse

P363: Wash contaminated clothing before reuse.

P370 + P378: In case of fire: Use ... for extinction.

P391: Collect spillage.

P501: dispose of contents/ container in accordance with local/ regional/ national/ international regulation.