



Material safety data sheet
According to EU Regulation 1907/2006 in the current version
CITRONELLA PURE ESSENTIAL OIL

1. Identification of the substance/mixture and company

Trade name:	Citronella Pure Essential Oil
I.N.C.I.	Cymbopogon Winterianus Herb Oil
CAS No. :	91771-61-8
EINESCS No. :	294-954-7
REACH pre-registration No. :	05-2116945464-39-0000
Utilization:	Raw material for cosmetic or professional use
Supplier company identification:	Elemental SRL , Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania Tel/Fax: +40259-436.755, www.elemental.eu
Emergency:	RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București. International emergency number: +49 180 2273-112

2. Hazards Identification

2.1 - Classification of the substance or mixture

The product requires a safety data sheet in compliance with EC Regulation 1907/2006 and subsequent amendments.

Classification according to EC Regulation 1272/2008 (Norm. GHS-CLP)

AH1 - Aspiration toxicity Cat. 1

ED11 - Serious Eye Injury/Ocular Irritation Cat. 1

EHC2 - Hazardous to the Aquatic Environment, Long Term Hazards Cat. 2

SS1A - Skin Sensitizer Cat. 1A

Hazards: H304 - H317 - H318 - H411

Precautionary statements: P272 - P273 - P280 - P301+P310 - P302+P352 - P305+P351+P338

Special provisions: None

2.2 - Label Elements



Warning: Danger

Hazard statements:

H304 - May be fatal if swallowed and if enters the respiratory tract.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H411 - Toxic to aquatic organisms with long lasting effects.

Cautionary Statements:

P272 - Contaminated work clothing should not be taken out of the workplace.

P273 - Do not release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P310 - If swallowed: Immediately call a poison control center or doctor/physician.

P302+P352 - After contact with skin: wash with plenty of soap and water.

P305 + P351 + P338 - In case of contact with eyes: rinse thoroughly for several minutes. Remove contact lenses

Remove contact lenses, if present, if comfortable to do so. Continue rinsing.

Special Provisions: None

2.3 - Other Hazards

Contains: Geraniol, Citral.



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3. Declaration of ingredients

Substance	C.A.S	EINECS	Risk Symbols	%
Citronellal	106-23-0	203-376-6	H315, H317, H319	[25-40]
Geraniol	106-24-1	203-377-1	H315, H317, H318	[20-25]
Citronellol	106-22-9	203-375-0	H315, H317, H319	[10-15]
Citral	5392-40-5	226-394-6	H315, H317, H319	[1-5]
Citronellyl acetate	150-84-5	205-775-0	H315, H411	[1-5]
Eugenol	97-53-0	202-589-1	H317, H319	[1-5]
Geranyl acetate	105-87-3	203-341-5	H315, H317, H412	[1-5]
Isopulegol	7786-67-6	232-102-8	H302, H315, H319	[1-5]
d-Limonene	5989-27-5	227-813-5	H226, H304, H315, H317, H400, H410	[1-5]
2.6.6-trimethyl-bicyclo-2-heptene	80-56-8	201-291-9	H226, H302, H304, H315, H317, H400, H410	[0-1]
Linalool	78-70-6	201-134-4	H315, H317, H319	[0-1]
Myrcene	123-53-3	204-622-5	H226, H304, H315, H317, H319, H411	[0-1]
Nerol	106-25-2	203-378-7	H315, H317, H319	[0-1]
Terpinolene	586-62-9	209-578-0	H226, H304, H317, H400, H410	[0-1]
beta-Caryophyllene	87-44-5	201-746-1	H304, H317, H413	[0-1]

Mixtures

Not applicable

4. First aid measures

4.1 - Description of first aid measures

In case of skin contact: wash affected area immediately with plenty of soap and water, if irritation persists contact a doctor.

In case of eye contact: rinse eyes with plenty of water for at least 15 min. (keeping eyes wide open). If irritation persists, consult doctor.

If swallowed: rinse mouth with water, do not induce vomiting. Seek medical advice immediately.

In case of inhalation: remove person to fresh air, remove contaminated clothing. If breathing difficulties persist, seek medical advice.

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

In case of contact with skin it may cause irritation. May cause discomfort if inhaled.

4.3 - Indication of immediate medical attention and special treatment

In case of discomfort contact a doctor immediately.



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5. Fire fighting measures

5.1 - Extinguishing media

Do not use water to extinguish fires. Use foam, carbon dioxide or dry chemical extinguishers.

5.2 - Special hazards arising from the substance or mixture

Toxic fumes may be released during fire, use protective masks. Overpressure may be created in containers exposed to fire with danger of explosion, cool containers before handling.

5.3 - Recommendations for firefighters

Always wear full fire protection equipment (helmet with visor, fireproof clothing, gloves, self-contained breathing apparatus).

6. Accidental release measures

6.1 - Personal Precautions, Protective Equipment and Emergency Procedures

In the event of a product leak or spill, move any flame or other heat source away from the area where the leak occurred.

If necessary, use airway protection; protective clothing (e.g. safety glasses or masks) should be worn. Do not handle damaged containers or spilled product without first putting on proper protective equipment.

6.2 - Environmental Precautions

Prevent product from entering sewers, surface drains, ground water and confined areas. In case of contamination, inform the competent authorities.

6.3 - Methods and Materials for Containment and Clean-up

Absorb spilled product with inert absorbent material (sand, vermiculite, diatomaceous earth). Collect most of the resulting material and place it in containers for disposal. Ensure sufficient ventilation of the spill site.

6.4 - Reference to other sections

Dispose of contaminated material in accordance with the provisions of Section 13.

7. Handling and storage

7.1 - Precautions for safe handling

Use in a well-ventilated area. Do not eat, drink or smoke when handling the product. Always wash hands before and after use. Use protective clothing.

7.2 - Conditions for safe storage, including any incompatibilities

Store in well filled, tightly closed containers, away from direct sunlight and at temperature below 50 °C away from any source of combustion. Do not smoke.

7.3 - Specific end use(s)

None

8. Exposure controls / personal protection

8.1 - Control parameters

There are no specific control parameters.

8.2 - Exposure controls



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Hand protection:

Protect hands with category I work gloves (ref. Directive 89/686/EEC and standard EN 374) such as latex, PVC or equivalent.

Skin protection:

Wear long-sleeved work clothes and safety footwear for professional use of category I (ref. Directive 89/686/EEC and standard EN 344). Wash with soap and water after removing protective clothing.

Respiratory protection: Use protective masks. The use of respiratory protective equipment is necessary in the absence of technical measures to limit worker exposure.

Eye protection:

Recommended to wear tightly fitting protective goggles (ref. Norm EN 166).

9. Physical and chemical properties

Appearance:	liquid
Color:	from pale yellow to yellow-brown
Odor:	characteristic, of citronellal
Relative density (d ₂₀ /20):	[0.880 ; 0.895]
Refractive index at 20°C:	[1.463 ; 1.475]
Optical rotation (°):	[-5 ; +1.5]
Olfactory threshold:	ND
pH:	N/A
Melting point/freezing point:	ND
Initial boiling point and boiling range:	ND
Flash Point:	N/A
Evaporation Rate:	ND
Flammability (solids, gans):	ND
Upper/lower flammability or explosive limits:	ND
Vapor Pressure:	Not applicable
Vapor density:	ND
Solubility in water:	No
Partition coefficient: n-octanol/water	ND
Auto-ignition temperature:	ND
Decomposition Temperature:	ND
Viscosity:	ND
Explosive Properties:	ND
Oxidizing Properties:	ND

10. Stability and reactivity

Stable under normal conditions of use.

10.1 - Reactivity

Not applicable

10.2 - Chemical Stability

Not applicable

10.3 - Possibility of hazardous reactions

Not applicable



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10.4 - Conditions to avoid

Not applicable

10.5 - Incompatible materials

Not applicable

10.6 - Hazardous decomposition products

Not applicable

11. Toxicological information

Oral (mg/kg): not determined

Inhalative (mg/kg): not determined

Cutaneous (mg/kg): not determined

12. Ecological information

12.1 - Toxicity

Do not allow product, diluted or in large quantities, to enter drains, ground or surface waters.

12.2 - Persistence and degradability

Not applicable.

12.3 - Bioaccumulative potential

Not applicable

12.4 - Mobility in soil

Not applicable

12.5 - Results of PBT and vPvB assessment

Not applicable

12.6 - Other adverse effects

Not applicable

13. Disposal considerations

Product residues are to be considered special hazardous waste. The hazardousness of the waste that contains part of this product must be assessed in accordance with current legislation.

Disposal must be entrusted to a company authorised to handle waste, in compliance with national and, if necessary, local regulations.

Contaminated packaging should be sent for recovery or disposal in accordance with national waste management regulations.

14. Transport information

14.1 - ONU number

ADR: 3082 (Tunnel restriction code: E)

IMDG: 3082

IATA: 3082

CUSTOMS CODE: 33012941

14.2 - ONU proper shipping name



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ADR: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Citronellal)
IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Citronellal)
IATA: DANGEROUS SUBSTANCE FOR THE ENVIRONMENT, LIQUID, N.O.S. (Citronellal)

14.3 - Transport hazard class(es)

ADR: 9 IMDG: 9 IATA: 9

14.4 - Packaging group

ADR: III IMDG: III IATA: III

14.5 - Environmental Hazards

Not applicable.

14.6 - Special precautions for user

Not applicable.

14.7 - Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

15. Regulatory information

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

Not applicable.

15.2 - Chemical safety assessment.

Components: Geraniol, Citral. May cause allergic reaction.

16. Additional information

Full text of H phrases mentioned in section 3:

- H226 - Flammable liquid and vapors.
- H302 - Harmful if swallowed.
- H304 - May be fatal if swallowed and enters airways.
- H315 - Causes skin irritation.
- H317 - May cause allergic skin reaction.
- H318 - Causes serious eye damage.
- H319 - Causes severe eye irritation.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- H411 - Toxic to aquatic life with long lasting effects.
- H412 - Harmful to aquatic life with long lasting effects.
- H413 - May cause long-lasting harmful effects to aquatic life.

Disclaimer:

This material safety data sheet 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 at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. 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.