



Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

Date 12.05.2015
Version 2.0

GREEN MANDARIN ESSENTIAL OIL, ORGANIC

1. Identification of the substance/preparation and trade name

Trade name: Green mandarin essential oil, organic
Product resulting from biological agriculture certified by Ecocert Greenlife F32600
Utilization: aromatic raw material for cosmetic and professional use
Company identification: **Elemental SRL**, Piata Cazarmii no.15, 410188-Oradea, Bihor-Romania,
Tel/Fax: +40259-436.755, www.elemental.eu
Emergency: RO: Biroul pentru Regulamentul Sanitar Internațional și Informare Toxicologică - Telefon de urgență 021 318 3606

2. Hazards Identification

Classification procedure established by IFRA / IOFI Labeling Manual, by Regulation (EC) No 1272/2008 and the ECHA:
H226: Flammable liquid and vapour, H315: Causes skin irritation, H317: May cause an allergic skin reaction, H304: May be fatal if swallowed and enters airway, H410: Very toxic to aquatic life with long lasting effects.



Precaution advises:

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 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.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
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.
P321 Specific treatment (see on this label).
P331 Do NOT induce vomiting.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P333+P313 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.
P370+P378 In case of fire: Use Carbon dioxide extinguishers, dry or foam extinguisher for extinction.
P391 Collect spillage.
P403+P235 Store in a well-ventilated place. Keep cool.

3. Composition / Information on ingredients



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Substance: CNS, Complex natural substance (100% pure and natural), Essential Oil from organic agriculture
INCI-name: citrus reticulata peel oil
CAS-number: 8008-31-9
EINECS-number: 284-521-0

4. First Aid

After excessive inhalation: Move exposed person to fresh air. Keep the person warm and at rest. Call a doctor in case of persistence or worsening of adverse health effects. If unconscious, place the person in recovery position and call a physician immediately. Ensure good air circulation.

First aid after Skin contact: Remove contaminated clothing. Rinse affected area with plenty of water. Contact a physician if symptoms persist.

First aid after Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Get medical attention if irritation occurs.

First aid after Ingestion: Rinse mouth with water. Move exposed person to fresh air. Keep the person warm and at rest. Do not induce vomiting unless directed by medical personnel. If vomiting occurs, keep head down to prevent the passage of vomit into the lungs. Call a doctor in case of persistence or worsening of adverse health effects. If unconscious, place the person in recovery position and call a physician immediately. Ensure good air circulation.

5. Fire-fighting Measures

Suitable extinguishing media: Foam, dry chemical powder, carbon dioxide, sand or earth
Unsuitable extinguishing: Direct waterjet
Special protective equipment: Avoid vapour inhalation. Keep away from sources of ignition. Do not smoke. Wear positive pressure self-contained breathing apparatus & protective clothing.
Fire and explosion protection: Avoid open flames. Toxic vapours must be avoided during fire. Respiratory protection should be released during fire.
Other information: Closed containers may build up pressure when exposed to heat and should be cooled with water spray. Possible production of toxic fumes in case of fire.

6. Accidental release measures:

Personal precautions: Provide adequate ventilation, avoid contact with skin and eye contact. Use individual protective equipment (safety glasses, waterproof-boots, suitable protective clothing). Don't smoke. Prevent any contact with hot surfaces (see rubric 8).

Environmental precautions
Land spill: Shut off source. Prevent product from entering sewerage, water courses or low lying areas. Take measures to reduce or prevent effects on ground water.
Gather product mechanically if possible. Bind remainings of the product with sand or other appropriate absorbent and remove. Dispose of product and contaminated absorbents in suitable containers, as directed in section 13.

Water spill: Confine the spill immediately with booms. Warn other ships. Notify port and other relevant authorities. Remove from the surface by skimming or with suitable absorbents. In running waters, apply appropriate dispersants in accordance with local regulation.



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Methods for cleaning up: Contain spilled material, cover with an inert, non-combustible, inorganic, absorbent material and destroy according to the regulation in force.

7. Handling and Storage

Precautions for safe handling: To avoid splashing into the eyes and mucous membranes and following the arrangement of the workplace and manipulations, wearing glasses and special clothing (gloves...) may be indicated. It is prohibit smoking in areas where they are handled. Do not heat with a naked flame or expose their vapors to a flame or other sources of ignition (eg electrical equipment). Do not abundantly breathe vapors. Large spillages should be contained with sand or inert powder.

Conditions for safe storage: Store in cool, dry and ventilated area, away from heat sources, sparks and open flames, protected from light in tightly closed original container

8. Exposure Controls and Personal Protection

Respiratory protection: Not normally needed in well ventilated areas. Avoid to breath directly on the product. Ensure a good ventilation of the workroom.

Hand protection: Use protective gloves

Eye protection: Avoid contact with eyes. Use eye protectors designed to protect against liquid splashes Before handling, wear safety goggles in accordance with standard EN166.

Physical protection: Use individual protective equipment



9. Physical and Chemical Properties

Appearance: liquid at room temperature
Colour: green
Odour: typical
Flash point: > +49°C
Specific gravity at 20°C: 0.845 - 0.855
Refractive index at 20°C: 1.473 - 1.478
Optical rotation at 20°C: +64° to +78°
Solubility(ies): insoluble in water; soluble in ethanol, soluble in vegetable oil

10. Stability and Reactivity

Stability: No significant modifications, respecting the storage conditions (see rubric 7).

Reactivity: This product is stable to shock, vibration and pressure under normal conditions of use. In the presence of light and heat, oxidation can occur.

Conditions to avoid: Do not heat to high temperature. Do not expose sealed containers in the sun. Keep away from sources of ignition.

Substances to avoid: Avoid contacts with strong acids, alkali or oxidizing agents.



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11. Toxicological Information

Acute toxicity:
LD50 Oral-rat ≥ 5.000 mg/kg
LD50 Dermal-rabbit ≥ 5.000 mg/kg
Germ cell mutagenicity: No significant effects or critical hazards.
Carcinogenicity: No significant effects or critical hazards.
Reproductive toxicity: No significant effects or critical hazards.

12. Ecological Information

Prevent contamination of soil, ground and surfacewater. Biodegradability not determined. R52/53 : Toxic for aquatic organisms, may cause bad effects at long terms for aquatic environment
Results of PBT and vPvB assessment: according to our knowledge, no assessment has been conducted on the product
Very toxic to aquatic organisms, resulting in long-term adverse effects.



13. Disposal Considerations

Recommendation: In accordance with local environmental laws. Avoid disposing into drainage systems and into the environment. Do not throw in natural surroundings.

14. Transport Information

UN no: 1169
Road (ADR/RID): Class 3, Packing group III, EXTRACTS, AROMATIC, LIQUID; Tunnel code: A,B,C,D.
Air (IATA/ICAO): Class 3, Packing group III, EXTRACTS, AROMATIC, LIQUID.
Sea (IMDG): Class 3, Packing group III, EXTRACTS, AROMATIC, LIQUID; Marine pollutant: Yes

15. Additional Regulatory Information

Regulations specific for the substance or mixture:
This Safety Data Sheet has
Further informations: see section 2

16. Other Information

DECLARATION OF ALLERGENS

7th Amendment to Directive 76/768/EC, annex III, part I (2003/15/EC)

INCI Name	CAS No	Contents in %
AMYL CINNAMAL	122-40-7	0
BENZYL ALCOHOL	100-51-6	0
CINNAMYL ALCOHOL	104-51-6	0
CITRAL	5392-40-5	< 0.05
EUGENOL	97-53-0	0



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HYDROXYCITRONELLAL	107-75-5	0
ISO EUGENOL	97-54-1	0
AMYL CINNAMYL ALCOHOL	101-85-9	0
BENZYL SALICYLATE	118-58-1	0
CINNAMAL (Cinnamic Aldehyde)	104-55-2	0
COUMARIN	91-64-5	0
GERANIOL	106-24-1	< 0.05
CYCLOHEXENE	31906-04-4	0
ANISYL ALCOHOL (Anise alcohol)	105-13-5	0
BENZYL CINNAMATE	103-41-3	0
FARNESOL	4602-84-0	0
2-(TERT-BUTYL PROPIONALDE) (Lilial)	80-54-6	0
LINALOOL	78-70-6	≤ 0.5
BENZYL BENZOATE	120-51-4	0
CITRONELLOL (Hexyl Cinnamal)	106-22-9 101-86-0	< 0.05 0
d-LIMONENE	5989-27-5	≤ 75
METHYL HEPTINE CARBONATE	111-12-6	0
2-CYCLOHEXINE-1-YL)-3-	127-51-5	0
OAK MOSS EXTRACT (Evernia Prunastri)	90028-68-5	0
TREE MOSS EXTRACT (Evernia Furfuracea)	90028-67-4	0

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.