



Material Safety Data Sheet
According to EU Regulation 1907/2006 in the current version

Date 18.12.2015
Version 3.0

LEMONGRASS ESSENTIAL OIL, ORGANIC

1. Identification of the substance/preparation and trade name

Trade name: Lemongrass 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 according to Regulation (EC) No. 1272/2008 CLP/GHS classification:

Flammable Liquid 4 H227 Combustible Liquid

Acute Toxicity (Dermal) 5 H313 May Be Harmful In Contact With Skin

Skin Corrosion/Irritation 2 H315 Causes Skin Irritation

Skin Sensitization 1 H317 May Cause An Allergic Skin Reaction

Serious Eye Damage/Eye Irritation 1 H318 Causes Serious Eye Damage

Aquatic Acute 2 H401 Toxic To Aquatic Life

Aquatic Chronic 3 H412 Harmful To Aquatic Life With Long Lasting Effects

Classification according to Directive 67/548/EEC or Directive 1999/45/EC:

R38 Irritating To Skin R43 May Cause Sensitisation By Skin Contact

R52/53 Harmful To Aquatic Organisms, May Cause Long-Term Adverse Effects In The Aquatic Environment

Label elements according to Regulation (EC) No. 1272/2008 (Substance)/Directive 67/548/EEC:

Hazard Pictogram / Symbol:

Signal word: Danger

Hazard indication: Xi Irritant



Hazard statements:

H227 Combustible Liquid H313 May Be Harmful In Contact With Skin H315 Causes Skin Irritation

H317 May Cause An Allergic Skin Reaction H318 Causes Serious Eye Damage H412 Harmful To Aquatic Life With Long Lasting Effects H401 Toxic To Aquatic Life

Precautionary statements:

P210 Keep Away From Heat/Sparks/Open Flames/Hot Surfaces. – No Smoking

P241 Use Explosion-Proof Electrical/ Ventilating/Lighting/.../Equipment

P301+310 If Swallowed: Immediately Call A Poison Center Or Doctor/Physician

P303+361+353 If On Skin (Or Hair): Remove/Take Off Immediately All Contaminated Clothing. Rinse Skin With Water/Shower

P333+313 If Skin Irritation Or Rash Occurs: Get Medical Advice/Attention

P405 Store Locked Up

P501 Dispose Of Contents/Container To ... (In Accordance With Local/Regional/National/International Regulation).

3. Composition / Information on ingredients

Substance: CNS, Complex natural substance (100% pure and natural), Essential Oil from organic agriculture

INCI-name: cymbopogon flexuosus oil

CAS-number: 91844-92-7

EINECS-number: 295-161-9

Elemental SRL - www.elemental.eu



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Main constituents: citral (neral and geranial), nerol, limonene

Hazardous components naturally present:

Citral <= 85% CAS No: 5392-40-5; EINECS: 226-394-6

Xi R38,R43 FL 4;ATD 5(2250);ATO 5(4950);SCI 2;SS 1;EDI 2A;EH A2

Geraniol <= 8% CAS No: 106-24-1; EINECS: 203-377-1

Xi R38,R41,R43 ATO 5(4200);SCI 2;EDI 1;SS 1;EH A2

Geranyl acetate <= 3% CAS No: 105-87-3; EINECS: 203-341-5

N R51/53 SCI 3;EH A2,C2

6-Methyl-5-hepten-2-one (MHO) <= 2% CAS No: 110-93-0; EINECS: 203-816-7

Xi R10,R36 FL 3;ATO 5(4100);SCI 3;EH A3

d-Limonene (p-Mentha-1,8-diene) <= 4% CAS No: 5989-27-5; EINECS: 227-813-5

Xi,N R10,R38,R43,R50/53,R65 FL 3;SCI 2;SS 1B;AH 1;EH A1,C1

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.

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: Shut off source. Prevent product from entering sewerage, water courses or low



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Land spill:	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.
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:	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:	yellow to light amber
Odour:	typical
Flash point:	+ 71°C (closed cup)
Specific gravity at 20°C:	0.852 - 0.905
Refractive index at 20°C:	1.478 - 1.489
Optical rotation at 20°C:	-5° to +2°
Solubility(ies):	insoluble in water; soluble 1:3 in 70% alcohol, soluble in vegetable oils

10. Stability and Reactivity

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

11. Toxicological Information

Information on toxicological effects. Acute toxicity:
LD50 Oral - rat - > 5.000 mg/kg LD50 Dermal - rabbit - > 5.000 mg/kg
Skin corrosion/irritation
Skin - rabbit Result: Skin irritation
Serious eye damage/eye irritation: no data available
Respiratory or skin sensitisation: no data available
Germ cell mutagenicity: no data available
Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity: no data available
Specific target organ toxicity - single exposure: Inhalation - May cause respiratory irritation.
Specific target organ toxicity - repeated exposure: no data available
Aspiration hazard: no data available

12. Ecological Information

Prevent contamination of soil, ground and surfacewater. Biodegradability not determined.
Toxicity: no data available. PBT/vPvB assessment not conducted.

13. Disposal Considerations

Recommendation: In accordance with local environmental laws. Avoid disposing into drainage systems and into the environment.

14. Transport Information

UN no: 3082
Road (ADR/RID): DG Class 9, Packing group III, Environmentally hazardous Substance, liquid, n.o.s CC 3Y
Air (IATA/ICAO): DG Class 9, Packing group III, Environmentally hazardous Substance, liquid, n.o.s
Sea (IMDG): DG Class 9, Packing group III, Environmentally hazardous Substance, liquid, n.o.s MP yes
MARPOL 73/78: n/a

15. Additional Regulatory Information

Regulations specific for the substance or mixture: no available further relevant data
Chemical safety assessment: not available data
IFRA: this substance/mixture or its components may be restricted by IFRA



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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	<= 85
EUGENOL	97-53-0	<= 0.4
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	<= 8
CYCLOHEXENE CARBOXALDEHYDE	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	<= 3
BENZYL BENZOATE	120-51-4	0
CITRONELLOL	106-22-9	<= 0.2
(Hexyl Cinnamal)	101-86-0	0
d-LIMONENE	5989-27-5	<= 4
METHYL HEPTINE CARBONATE	111-12-6	0
3-METHYL-4-(2,6,6 TRIMETHYL-2-CYCLOHEXINE-1-YL)-3-BUTEN-2-ONE	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.