



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

Date 09.11.2015
Version 2.0

VETIVER ESSENTIAL OIL

1. Identification of the substance/preparation and trade name

Trade name: Vetiver essential oil
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

EC Dir.: No particular danger if used according to recommendations written on Section 7.
CLP/GHS: SCI 2, EDI 2A, SS 1
SGH07, H315(Causes skin irritation), H317(May cause an allergic skin reaction), H319(Causes serious eye irritation), P262(Do not get in eyes, on skin, or on clothing), P305/351/338(IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing), P313(Get medical advice/attention), P280(Wear protective gloves/protective clothing/eye protection/face protection).

Warning



3. Composition / Information on ingredients

Essential oil obtained by steam distillation of the roots of vetiver from Java Indonesia.
INCI-name: vetiveria zizanioides root oil
CAS-number: 8016-96-4 / 84238-29-9 EINECS-number: 282-490-8
Main components: beta-vetivenene, vetivones, khusimol, zizanoic acid, beta-funebrene
Components naturally present:
Vetiverols N°CAS : 68129-81-7 N°CE : 268-578-9 <= 20.0%
Xi 36/38-43 GHS07 H315, H319, H317 SCI 2; EDI 2A; SS 1
p-Cymene N°CAS : 99-87-6 N°CE : 202-796-7 <= 0.1%
Xn,N R(10)-51/53-65 SGH08, SGH09 H226, 304, 303, 316, 411 ATO 5(4750); AH 1, SCI 3; EH A2,C2; FL 3

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



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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 avoid 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 lying areas. Take measures to reduce or prevent effects on ground water. |
| Land spill: | 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.



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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: viscous liquid at room temperature
Colour: amber brown to reddish
Odour: typical
Flash point: +100°C
Specific gravity at 20°C: 0.980 to 1.003
Refractive index at 20°C: 1.517 to 1.530
Optical rotation at 20°C: not applicable
Solubility(ies): insoluble in water; soluble in 2 parts max of 80% ethyl alcohol, liposoluble

10. Stability and Reactivity

Stability: No significant modifications, respecting the storage conditions (see section 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.

11. Toxicological Information

Effect by ingestion: LD50 for the rat ≥ 5000 mg/kg
Effect by dermal contact: LD50 for the rabbit ≥ 5000 mg/kg
CMR naturally present: not detected
IFRA restrictions: Vetiver Java essential oil is not explicitly regulated by IFRA. It contains maximum 1% nootkatone classified "S" (specified).

12. Ecological Information

Prevent contamination of soil, ground and surfacewater. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Biodegradability not determined.

13. Disposal Considerations

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

14. Transport Information



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UN no: not regulated
Road (ADR/RID): not regulated
Air (IATA/ICAO): not regulated
Sea (IMDG): not regulated

15. Additional Regulatory Information

Regulations specific for the substance or mixture: not available data
Chemical safety assessment: not available data

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 % |
|---|------------|---------------|
| 2-(TERT-BUTYL PROPIONALDE) (Lilial) | 80-54-6 | 0 |
| 3-METHYL-4-(2,6,6 TRIMETHYL-2-CYCLOHEXINE-1-YL)-3-BUTEN-2-ONE | 127-51-5 | 0 |
| AMYL CINNAMAL | 122-40-7 | 0 |
| AMYL CINNAMYL ALCOHOL | 101-85-9 | 0 |
| ANISYL ALCOHOL (Anise alcohol) | 105-13-5 | 0 |
| BENZYL ALCOHOL | 100-51-6 | 0 |
| BENZYL BENZOATE | 120-51-4 | 0 |
| BENZYL CINNAMATE | 103-41-3 | 0 |
| BENZYL SALICYLATE | 118-58-1 | 0 |
| CINNAMAL (Cinnamic Aldehyde) | 104-55-2 | 0 |
| CINNAMYL ALCOHOL | 104-51-6 | 0 |
| CITRAL | 5392-40-5 | 0 |
| CITRONELLOL | 106-22-9 | 0 |
| COUMARIN | 91-64-5 | 0 |
| EUGENOL | 97-53-0 | 0 |
| FARNESOL | 4602-84-0 | 0 |
| GERANIOL | 106-24-1 | 0 |
| HEXYL CINNAMIC ALDEHYDE (Hexyl Cinnamal) | 101-86-0 | 0 |
| HYDROXYCITRONELLAL | 107-75-5 | 0 |
| HYDROXYMETHYL PENTYL CYCLOHEXENE CARBOXALDEHYDE (Lyral) | 31906-04-4 | 0 |
| ISO EUGENOL | 97-54-1 | 0 |
| LIMONENE | 138-86-3 | 0 |
| LINALOOL | 78-70-6 | 0 |
| METHYL HEPTINE CARBONATE | 111-12-6 | 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



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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.