



## Material safety data sheet

According to EU Regulation 1907/2006 in the current version

### SANDALWOOD PURE ESSENTIAL OIL

#### 1. Identification of the substance/mixture and company

Trade name:	Sandalwood essential oil 100% pure and natural Natural product obtained by steam distillation from the wood.
I.N.C.I.	Santalum album oil
CAS No.:	8006-87-9 / 84787-70-2
EINESCS No.:	284-111-1
REACH pre-registration No.:	/
Utilization:	Raw material for cosmetic or professional use
Supplier company identification:	<b>Elemental SRL</b> , 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 is classified as dangerous according to the provisions of the Directive 67/548 / EEC and 1999/45 / EC and subsequent amendments and adjustments. It is also classified dangerous according to EC Regulation 1272/2008.

The product therefore requires a safety data sheet in accordance with the provisions of the EC Regulation 1907/2006 and subsequent amendments.

The full text of the risk phrases and precautionary phrases cited below is shown in point 16 of this sheet.

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

SS1, SGH07

Hazards: H317

Precautions: P261 – P272 – P280 – P302+P352 – P333+P313 – P363

Special instructions: none

##### 2.2 Label elements

Hazard pictograms:



Hazard statement:

H317 – May cause an allergic skin reaction

Precautionary statement:

P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.

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

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

P302 + P352 – IF ON SKIN: wash with plenty of water.

P333 + P313 – IF SKIN irritation or rash occurs: Get medical advice/attention.



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P363 – Wash contaminated clothing before reuse.

Special instructions: none

### 2.3 Other hazards

Contains Benzyl benzoate, Benzyl alcohol, Nerolidol (isomer unspecified)

## 3. Declaration of ingredients

The product contains the following ingredients:

Substance	C.A.S.	EINECS	Hazard symbols	Percent %
alpha-santalol	115-71-9	204-102-8	H303, H317	<=51.5%
cis-beta-santalol	77-42-9	201-027-2	H303, H317	<=28.5%

## 4. First aid measures

### 4.1 Description of first aid measures

In case of contact with skin: wash the affected area immediately with plenty of soap and water, if irritation persists seek medical attention.

In case of contact with eyes: rinse with plenty of water for at least 15 minutes (while holding eyelids apart), if irritation persists seek medical attention.

In case of inhalation: take the person to fresh air, remove contaminated clothes, if difficulty of breathing persists seek medical attention.

In case of ingestion: rinse mouth out with water and seek medical advice immediately. Do not vomit.

### 4.2 Main symptoms and effects, both acute and delayed

In case of contact with skin, may cause irritation. May cause illness in case of inhalation.

### 4.3 Indication to consult a physician immediately or any special treatments

In case of illness contact your physician immediately.

## 5. Fire fighting measures

### 5.1 Means of extinction

Do not use water to extinguish fire. Use foam fire extinguishers, with carbon dioxide or powder.

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

During the fire toxic fumes could be released, use protective masks. Overpressure can be created in containers exposed to fire with danger of explosion, cool the containers before handling them.

### 5.3 Recommendations for fire-fighters

Always wear full fire protection equipment (protective helmet with visor, fireproof clothing, intervention gloves, breathing apparatus).

## 6. Accidental release measures



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#### 6.1 Personal precautions, protective devices and emergency procedures

In case of loss or spillage of the product, remove any flames or other sources of heat from the area where the leak occurred. Use protection if necessary for airways; protective clothing must be worn (eg. safety glasses or masks). Do not handle damaged containers or spilled product without wearing the appropriate protective equipment.

#### 6.2 Environmental precautions

Prevent the product from entering drains, superficial drains, groundwater and confined areas. In case of such contamination inform the competent authorities.

#### 6.3 Methods and materials for containment and remediation

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

#### 6.4 Reference to other sections

Disposal of the contaminated material must be carried out in accordance with the provisions of point 13.

## 7. Handling and storage

#### 7.1 Precautions for safe handling

Use in well-ventilated places. Do not eat, drink or smoke during use product handling. Always wash your 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 a temperature below 50°C away from any source of combustion. Do not smoke.

#### 7.3 Specific end uses

None.

## 8. Exposure controls / personal protection

#### 8.1 Control parameters

There are no specific control parameters.

#### 8.2 Exposure controls



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 work clothes with long sleeves 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 protection is necessary in the absence of technical measures to limit worker exposure.



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Eye protection: it is recommended to wear airtight protective goggles (ref. Standard EN 166).

#### 9. Physical and chemical properties

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

Appearance: liquid, slightly viscous at room temperature

Color: pale yellow to yellow

Odor: soft, woody, persistent

Relative density (d 20 / 20): [0.968 to 10.983]

Refractive index at 20°C: [1.503 to 1.508]

Optical rotation (°): -15° to -21°

Flash point: +138 ° C

Odor threshold: NA

pH: NA

Melting point / freezing point: NA

Initial boiling point and boiling range: NA

Flash point: NA

Evaporation rate: NA

Flammability (solid, gas): NA

Upper / lower flammability or explosive limits: NA

Vapor tension: NA

Vapor density: NA

Solubility in water: soluble in ethyl alcohol

Partition coefficient: n-octanol / water NA

Auto-ignition temperature: NA

Decomposition temperature: NA

Viscosity: NA

Explosive properties: NA

Oxidizing properties: NA

##### 9.2 Other information

None

#### 10. Stability and reactivity

Stable under normal conditions of use.

##### 10.1 Responsiveness

Not applicable

##### 10.2 Chemical stability

No significant modifications in storage conditions.

##### 10.3 Possibility of dangerous reactions

No significant reactivity hazards in use conditions.

##### 10.4 Conditions to avoid

High temperature and heat sources.

##### 10.5 Incompatible materials

Avoid contacts with strong acids, alkali or oxidizing agents.



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#### 10.6 Hazardous decomposition products

Not applicable

### 11. Toxicological information

#### 11.1 Information on toxicological effects

Acute toxicity information:

Effect by ingestion: LD50 for the rat > 5580 mg/kg

Effect by skin contact: LD50 for the rabbit > 5000 mg/kg

CMR naturally present: Furfural <0.01% (CAR 2), furfuryl alcohol <0.01% (CAR 2), toluene <0.01% (REP 2)

Residual solvent(s): not applicable

Cosmetics Allergens (1223/2009/EEC): Certificate on request

IFRA restrictions: Not regulated by IFRA. Limited components listing available on technical data sheet.

Flavouring legislation : Flavouring preparation (1334/2008/EC Regulation)

### 12. Ecological information

#### 12.1 Toxicity

Do not allow the product, even if diluted or in small quantities, to penetrate the ground aquifers or drain pipes.

#### 12.2 Persistence and degradability

Not applicable

#### 12.3 Bioaccumulation potential

Not applicable

#### 12.4 Ground mobility

Not applicable

#### 12.5 Results of PBT and vPvB assessment

Not applicable

#### 12.6 Other adverse effects

Not applicable

### 13. Disposal considerations

#### 13.1 Waste treatment methods

Product residues are to be considered special hazardous waste. The danger of the waste that partly contains this product must be assessed on the basis of current legislative provisions.

Disposal must be entrusted to an authorized waste management company in compliance with national and possibly local legislation.

Contaminated packaging must be sent for recovery or disposal in compliance with national waste management regulations.

### 14. Transport information

Customs code: 33012941

Transport: Not regulated



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#### 15. Regulatory information

15.1 Regulations and legislation on health, safety and environment specific to the substance or mixture  
No data available.

15.2 Chemical safety assessment.  
No data available.

#### 16. Additional information

16.1 Abbreviations:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

LTE: Long-term exposure.

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STE: Short-term exposure.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

16.2 Full text of the H phrases mentioned in point 3:

H303 – May be harmful if swallowed

H317 – May cause an allergic skin reaction

#### DECLARATION OF ALLERGENS

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

I.N.C.I.	C.A.S.	%
Alpha-Hexyl cinnamic aldehyde (HCA)	101-86-0	-
Amyl cinnamic alcohol	101-85-9	-
Amyl cinnamic aldehyde (ACA)	122-40-7	-
Anisyl alcohol	105-13-5	-
Benzyl salicylate	118-58-1	-
Benzyl benzoate	120-51-4	-
Benzyl cinnamate	103-41-3	-



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Benzyl alcohol	100-51-6	-
Cinnamic alcohol	104-54-1	-
Cinnamic aldehyde	104-55-2	-
Citral	5392-40-5	-
Citronellol	106-22-9	-
Coumarin (2p-1-benzopyran-2-one)	91-64-5	-
d-Limonene	5989-27-5	-
Eugenol	97-53-0	-
Farnesol	4602-84-0	-
Geraniol	106-24-1	-
Lyr al (Hydroxymethylpentyl cyclohexene carbaldoxaldehyde)	31906-04-4	-
Hydroxycitronellal	107-75-5	-
Isoeugenol	97-54-1	-
alpha-Iso-methyl ionone	127-51-5	-
Linalool	78-70-6	-
Methyl heptine carbonate	12/06/11	-
Oakmoss absolute	9000-50-4	-
p-tert-Butyl-alpha- methylhydrocinnamic aldehyde	80-54-6	-
Tree moss	68648-41-9	-

#### 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.