

Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

FRANKINCENSE ESSENTIAL OIL

1. Identification of the substance/mixture and company

Trade name:	Franckincense Essential Oil
	Natural product obtained by steam distillation of the gum resin.
I.N.C.I.	Boswellia Carterii Gum Oil
CAS No. :	89957-98-2
EC No. :	946-037-4
REACH pre-registration No. :	01-2120738865-41
Utilization:	Raw material for personal care, aromatherapy
Supplier company identification:	Elemental SRL, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania Tel/Fax: +40259-436.755, www.ellemental.com
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

Classification according to EC Reg. 1272/2008 (Norm. GHS-CLP)
 Flammable liquids, Category 3
 Skin corrosion/irritation, Category 2
 Skin sensitization, category 1B
 Aspiration hazard, Category 1
 Hazardous to the aquatic environment — Chronic Hazard, Category 2

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

Hazards: H226 – H304 – H315 – H317– H411
 Precautions: P210 – P501 – P280 – P303+P361+P353 – P301+P310 – P331
 Special instructions: none

Adverse physicochemical, human health and environmental effects

- Flammable liquid and vapor.
- Causes skin irritation.
- May cause an allergic skin reaction.
- May be fatal if swallowed and enters airways.
- Toxic to aquatic life with long lasting effects.

2.2 Label elements

Hazard pictograms:



Hazard statement:

H226 – Flammable liquid and vapor.

Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

FRANKINCENSE ESSENTIAL OIL

H304 – May be fatal if swallowed and enters airways.

H315 – Causes skin irritation.

H317 – May cause an allergic skin reaction.

H411 – Toxic to aquatic life with long lasting effects.

Precautionary statement:

P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P501 – Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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

P303+P361+P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P301+P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P331 – Do NOT induce vomiting.

Special instructions: none

2.3 Other hazards

No additional information available.

3. Declaration of ingredients

3.1. Substances

The product contains the following components to declare:

Substance	C.A.S.	EINECS	Hazard symbols	Percent %
Frankincense essential oil	89957-98-2	946-037-4	H226, H304, H315, H317, H411	100%

3.2. Mixtures

Not Applicable

4. First aid measures

4.1 Description of first aid measures

In case of contact with skin: Rinse skin with water/shower. Take off immediately all contaminated clothing. If symptoms persist call a doctor. If skin irritation or rash occurs: Get medical advice/attention.

In case of contact with eyes: If eye irritation persists: Get medical advice/attention. Ensure adequate flushing of eyes with plenty of vegetable oil by separating eyelids with the fingers. Consult an eye specialist if necessary. For contact lens wearers: Flush eyes immediately. The lenses are sure to fall while rinsing. If it does not, remove them after rinsing. Do not reuse. Rinse eyes with water as a precaution.

In case of inhalation: Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep comfortable for breathing. When in doubt or if symptoms are observed, get medical advice.

Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

FRANKINCENSE ESSENTIAL OIL

In case of ingestion: Do not induce vomiting. Call a doctor immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head down to prevent the passage of vomit into the lungs. Take a copy of the label and/or SDS with the victim to the health professional.

4.2 Main symptoms and effects, both acute and delayed

Symptoms/effects after skin contact: Irritation. May cause an allergic skin reaction.

Symptoms/effects after ingestion: Risk of lung oedema.

4.3 Indication to consult a physician immediately or any special treatments

Treat symptomatically.

5. Fire fighting measures

5.1 Means of extinction

Suitable extinguishing media: Foam, carbon dioxide, dry chemical, water spray, dry powder.

Unsuitable extinguishing media: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Fire hazard: Flammable liquid and vapor.

Hazardous decomposition products in case of fire: Toxic vapors must be avoided during fire. Respiratory protection equipment may be necessary. Use water spray or fog for cooling exposed containers.

5.3 Recommendations for fire-fighters

Protection during firefighting: Do not attempt to take action without suitable protective equipment: self-contained breathing apparatus, complete protective clothing.

6. Accidental release measures

6.1 Personal precautions, protective devices and emergency procedures

General measures: Do not get in eyes, on skin, or on clothing. Do not smoke. Avoid contact with hot surfaces. See section 8.

For non-emergency personnel

- Emergency procedures: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

For emergency responders

- Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8.

6.2 Environmental precautions

Avoid release to the environment. Prevent liquid from entering sewers, watercourses, underground or low areas.

6.3 Methods and materials for containment and remediation

For containment: Collect spillage.

Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

FRANKINCENSE ESSENTIAL OIL

Methods for cleaning up: Take up liquid spill into absorbent material. Contain spilled material, cover with an inert, noncombustible, inorganic, absorbent material and destroy according to the regulation in force. Notify authorities if product enters sewers or public waters.

Other information: Dispose of materials or solid residues at an authorized site.

6.4 Reference to other sections

For further information refer to section 13.

7. Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation of the work station. Wear personal protective equipment. Apply according to good manufacturing and industrial hygiene practices. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

Hygiene measures: Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Always wash hands after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures: Ground/bond container and receiving equipment.

Storage conditions: Keep container tightly closed. Store locked up. Store in dry, cool, well-ventilated area. Keep away from open flames, hot surfaces and sources of ignition. Store in a dark area. Keep in original containers closed. Store in a well-ventilated place. Keep cool.

Maximum storage period: 24 months from dispatch date, under normal storage conditions.

7.3 Specific end uses

No additional information available.

8. Exposure controls / personal protection

8.1 Control parameters

Handle in accordance with good industrial hygiene and safety practice.

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.

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

Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

FRANKINCENSE ESSENTIAL OIL

8.3 Environmental exposure controls

Environmental protection legislation for every country must be observed.

9. Physical and chemical properties

9.1 Information on physical and chemical properties

Physical state: liquid

Appearance: liquid at room temperature

Color: yellow

Odor: woody, spicy, resinous, balsamic, terpene-like

Odor threshold: No data available

pH: No data available

Relative evaporation rate (butylacetate=1): No data available

Melting point: Not applicable

Freezing point: No data available

Boiling point: No data available

Flash point: 44 °C

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Flammability (solid, gas): Not applicable

Vapor pressure: No data available

Relative vapor density at 20 °C: No data available

Relative density: 0.86 - 0.89

Refractive index: 1.468 - 1.482

Solubility: No data available

Log Pow: No data available

Viscosity, kinematic: < 20 mm²/s

Viscosity, dynamic: No data available

Explosive properties: No data available

Oxidizing properties: No data available

Explosive limits: No data available

9.2 Other information

None

10. Stability and reactivity

10.1 Responsiveness

Flammable liquid and vapor.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of dangerous reactions

None under recommended storage and handling conditions (see section 7).

Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

FRANKINCENSE ESSENTIAL OIL

10.4 Conditions to avoid

Avoid heat sources. Avoid high temperatures. Avoid contact with hot surfaces. No heat, no flames, no sparks. Eliminate all sources of ignition.

10.5 Incompatible materials

Strong acids, oxidizing agents, alkaline medium.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral): Not classified

Acute toxicity (dermal): Not classified

Acute toxicity (inhalation): Not classified

Frankincense essential oil

LD50 oral rat > 5000 mg/kg

LD50 dermal rabbit > 5000 mg/kg

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT-single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration hazard: May be fatal if swallowed and enters airways.

Viscosity, kinematic: < 20 mm²/s

12. Ecological information

12.1 Toxicity

Ecology - general: Toxic to aquatic life with long lasting effects.

Acute aquatic toxicity: Not classified

Chronic aquatic toxicity: Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

No additional information available.

12.3 Bioaccumulation potential

No additional information available.

12.4 Ground mobility

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

No additional information available.

12.5 Results of PBT and vPvB assessment
No additional information available.

12.6 Other adverse effects
No additional information available.

13. Disposal considerations

13.1 Waste treatment methods

Regional legislation (waste): Disposal must be done according to official regulations.
Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information: Flammable vapors may accumulate in the container.
Ecology - waste materials: Avoid release to the environment.

14. Transport information

ADR / RID		IMDG		IATA	
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14.1 UN number

ADR: 1169
IMDG: 1169
IATA: 1169

14.2 UN shipping name

ADR: EXTRACTS, AROMATIC, LIQUID
IMDG: EXTRACTS, AROMATIC, LIQUID
IATA: EXTRACTS, AROMATIC, LIQUID

14.3 Class of danger for transport

ADR: 3
IMDG: 3
IATA: 3

14.4 Packing group

ADR: III
IMDG: III
IATA: III

Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

FRANKINCENSE ESSENTIAL OIL

14.5 Environmental hazards

ADR: - Dangerous for the environment: Yes

IMDG: - Dangerous for the environment: Yes - Marine pollutant: Yes

IATA: - Dangerous for the environment: Yes

14.6 Special precautions for users

Overland transport

Classification code (ADR): F1

Special provisions (ADR): 601

Limited quantities (ADR): 5I

Excepted quantities (ADR): E1

Packing instructions (ADR): P001, IBC03, LP01, R001

Mixed packing provisions (ADR): MP19

Portable tank and bulk container instructions (ADR): T2

Portable tank and bulk container special provisions (ADR): TP1

Tank code (ADR): LGBF

Vehicle for tank carriage: FL

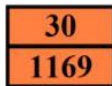
Transport category (ADR): 3

Special provisions for carriage - Packages (ADR): V12

Special provisions for carriage - Operation (ADR): S2

Hazard identification number (Kemler No.): 30

Orange plates:



Tunnel restriction code (ADR): D/E

EAC code: 3YE

Transport by sea

Special provisions (IMDG): 223, 955

Limited quantities (IMDG): 5 L

Excepted quantities (IMDG): E1

Packing instructions (IMDG): P001, LP01

IBC packing instructions (IMDG): IBC03

Tank instructions (IMDG): T2

Tank special provisions (IMDG): TP1

EmS-No. (Fire): F-E

EmS-No. (Spillage): S-D

Stowage category (IMDG): A

Properties and observations (IMDG): Usually consist of alcoholic solutions. Miscibility with water depends upon the composition.

Air transport

PCA Excepted quantities (IATA): E1

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

PCA Limited quantities (IATA): Y344
PCA limited quantity max net quantity (IATA): 10L
PCA packing instructions (IATA): 355
PCA max net quantity (IATA): 60L
CAO packing instructions (IATA): 366
CAO max net quantity (IATA): 220L
Special provisions (IATA): A3
ERG code (IATA): 3L

Inland waterway transport
Classification code (ADN): F1
Special provisions (ADN): 601
Limited quantities (ADN): 5 L
Excepted quantities (ADN): E1
Equipment required (ADN): PP, EX, A
Ventilation (ADN): VE01
Number of blue cones/lights (ADN): 0

Rail transport
Classification code (RID): F1
Special provisions (RID): 601
Excepted quantities (RID): E1
Packing instructions (RID): P001, IBC03, LP01, R001
Mixed packing provisions (RID): MP19
Portable tank and bulk container instructions (RID): T2
Portable tank and bulk container special provisions (RID): TP1
Tank codes for RID tanks (RID): LGBF
Transport category (RID): 3
Special provisions for carriage – Packages (RID): W12
Colis express (express parcels) (RID): CE4
Hazard identification number (RID): 30

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code
Not applicable

15. Regulatory information

15.1 Regulations and legislation on health, safety and environment specific to the substance or mixture

EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:	
Reference code	Applicable on
3.	Frankincense essential oil
3(a)	Frankincense essential oil
3(b)	Frankincense essential oil

Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

FRANKINCENSE ESSENTIAL OIL

3(c)	Frankincense essential oil
40.	Frankincense essential oil

Frankincense essential oil is not on the REACH Candidate List.

Frankincense essential oil is not on the REACH Annex XIV List.

Frankincense essential oil is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Frankincense essential oil is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

15.2 Chemical safety assessment.

No chemical safety assessment has been carried out.

16. Additional information

16.1 Abbreviations:

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Test-ing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regula-tion (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergen-cy Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration as-sociated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good La-boratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships car-rying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - Interna-tional Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO – International Maritime Organization; INCI: International Nomenclature of Cosmetic Ingredients; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test popula-tion; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - Interna-tional Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Ef-fect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic sub-stance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quanti-tative) Structure Activity Relationship; PNEC: Predicted No Effect Concentration; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Re-striction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; STE: Short-term exposure; STEL: Short Term Exposure limit; STOT: Specific Target Organ Toxicity; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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

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

H226 - Flammable liquid and vapor.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H411 - Toxic to aquatic life with long lasting effects.

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

I.N.C.I.	C.A.S.	Max %
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	-
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	≤ 20.0000
Eugenol	97-53-0	-
Farnesol	4602-84-0	-
Geraniol	106-24-1	-
Lyrar (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	≤ 0.5000
Methyl heptine carbonate	12/06/11	-

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

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.