



**CERTIFICATE OF ANALYSIS**

Product Name	FRANKINCENSE	Botanical Name	<i>Boswellia Serrata</i>
Batch Number	4379801	Production Method	Steam distillation
Best Before End	November 2022	Country of Origin	India

Parameter	Specification	Result	Method
<b><u>Physical and Analytical Parameters</u></b>			
Appearance	Free flowing clear liquid	Complies	Visual
Colour	Colourless to Pale yellow	Complies	Visual
Odour	A characteristic odour somewhat camphoraceous odour	Complies	Organoleptic
Specific gravity at 25°C	0.830 to 0.870	0.8482	FCC
Refractive Index at 20°C	1.450 to 1.480	1.456 7	FCC
Optical rotation	+5° to +32°	+26°	FCC
<b><u>Heavy Metal Analysis</u></b>			
Total Heavy Metals	< 10 ppm	Complies	ICP - MS
Arsenic	< 1 ppm	Complies	ICP – MS
Lead	< 3 ppm	Complies	ICP – MS
Mercury	< 0.1 ppm	Complies	ICP – MS
Cadmium	< 1 ppm	Complies	ICP - MS

Warning : The product is irritant, avoid contact with skin and eyes.

Storage : Do not store in close proximity to heat, sparks, open flames, strong acids, and strong bases. To minimise product degradation, avoid prolonged exposure of the material to air. Keep container tightly closed when not in use. Mix well before use.

Shelf life: Not more than 3 Years, when stored as recommended above.



## COSMETIC ALLERGENS DECLARATION

<b>Product Name</b>	<b>FRANKINCENSE OIL</b>
<b>Product Code</b>	OEFRAN

We hereby certify that the product mentioned above, Supplied by MADAR Corporation Ltd, Conforms to the Cosmetics Directive EC No.1223/2009, to the best of our Knowledge.

### MAJOR ALLERGENS CHECKLIST

COMPONENT	CAS NUMBER	PRESENCE (%)
2-METHYL-3-(4-(1,1-DIMETHYL ETHYL) PHENYL)PROPANAL (LILIAL)	80-54-6	Nil
ALPHA ISO-METHYL IONONE (METHYL IONONE GAMMA)	127-51-5	Nil
AMYL CINNAMYL ALCOHOL	101-85-9	Nil
AMYL CINNAMALDEHYDE	122-40-7	Nil
ANISYL ALCOHOL	105-13-5	Nil
BENZYL ALCOHOL	100-51-6	Nil
BENZYL BENZOATE	120-51-4	Nil
BENZYL CINNAMATE	103-41-3	Nil
BENZYL SALICYLATE	118-58-1	Nil
CINNAMYL ACETATE	103-548	Nil
CINNAMIC ALCOHOL	104-54-1	Nil
CINNAMIC ALDEHYDE	104-55-2	Nil
CITRAL	5392-40-5	Nil
CITRONELLOL	106-22-9	Nil
COUMARIN	91-64-5	Nil
DIBROMO BENZENE	106-37-6	Nil
EUGENOL	97-53-0	Nil
ESTRAGOLE	140-67-0	Nil
FARNESOL	4602-84-0	Nil
GERANIOL	106-24-1	Nil
HEXYLCINNAMIC ALDEHYDE	101-86-0	Nil
HYDROXYCITRONELLAL	107-75-5	Nil
HYDROXYMETHYLPENTTYLCYCLOHEXENE CARBOXALDEHYDE (LIRAL)	31906-04-4	Nil
ISOEUGENOL	97-54-1	Nil
LILAL	80-54-6	Nil
LIMONENE	5989-27-5	0 - 3
LINALOOL	78-70-6	Nil



LYRAL	31906-04-5	Nil
METHYL EUGENOL	93-15-2	Nil
METHYL OCTINE CARBONATE	111-80-8	Nil
PHENYL ACETALDEHYDE	122-78-1	Nil
OAKMOSS	90028-68-5	Nil
TREEMOSS	90028-67-4	Nil

### PREVENTION OF CROSS CONTAMINATION

**Method**

Working spaces and the equipments are cleaned and the goods are stored under standard conditions

The above is based on the main allergens referred to in the following: -

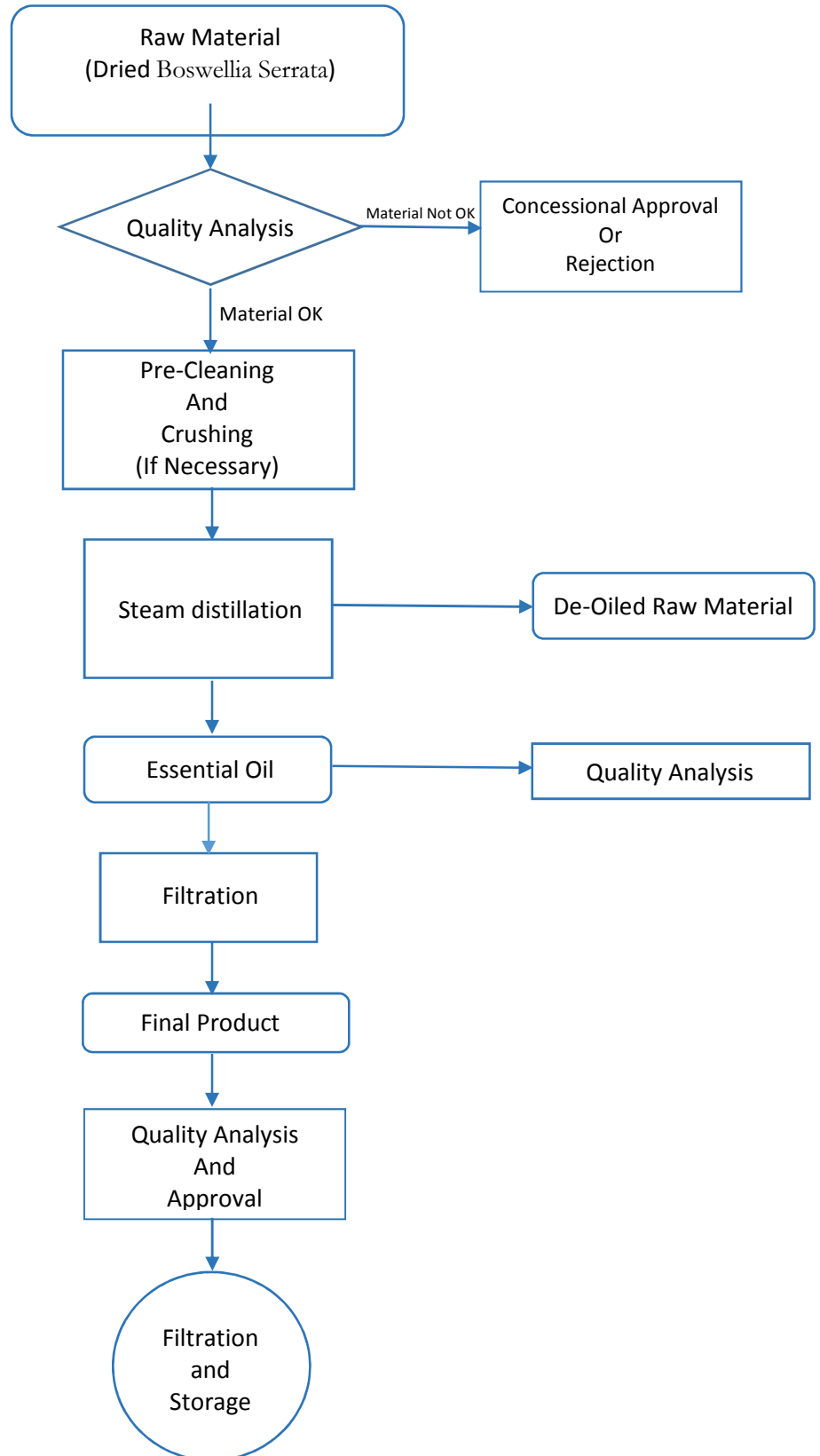
Cosmetics Directive EC No.1223/2009

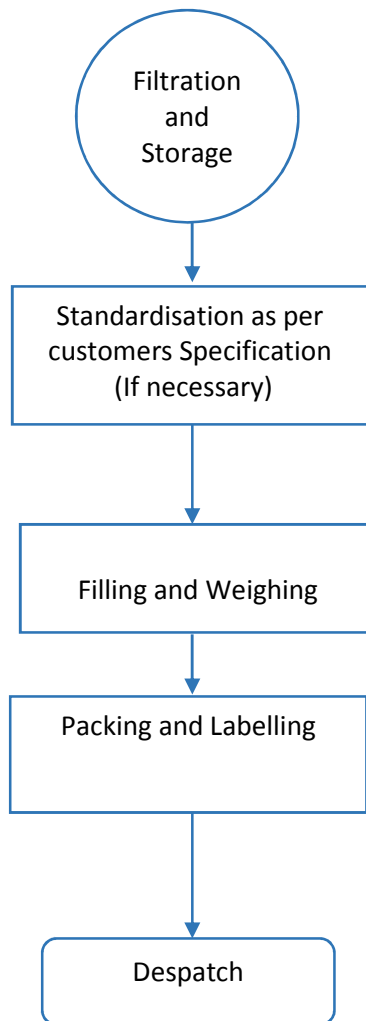
FDA: The Food Allergen Labelling and Consumer Protection Act of 2004(August 2004) (Title II of Public Law 108-282) effective from 1<sup>st</sup> Jan 2006.

Annex IIIa, of the Corncil Directive (EC) No 2003/89 of the 10<sup>th</sup> November 2003, amending Directive 2000/13/EC as regards indication of the ingredients present in foodstuffs. Further amended by Corncil Directive 2007/68/EC of the 27<sup>th</sup> November 2007

Codex Alimentarius: General Standard for the labelling of pre-packaged foods, Codex Standard 1-1985 (Rev 1-1991)

## PROCESS FLOWCHART FOR FRANKINCENSE OIL







28.03.2019

**GENETICALLY MODIFIED ORGANISMS – STATEMENT**

This is to certify that the below product(s) supplied by MADAR Corporation Limited

**FRANKINCENSE OIL**

- a) Does not contain or derived from species which have been approved and released as GMO according to European Union Directive 90/220/EEC.
- b) Does not contain any genetically modified protein or DNA
- c) Not produced from possible genetically modified material. Also no genetically modified organisms like enzymes, micro-organisms, growing substrates, additives, processing aids etc. are used in connection with the production of this product or any of its ingredients or components.



## IFRA

### FRANKINCENSE OLIBANUM OIL

**CAS NUMBER** : 97952-72-2  
**FEMA NUMBER** : 2816  
**CHEMICAL NAME** : **Boswellia Serrata**

We hereby declare that the above material supplied by **Madar Corporation** confirms to the following requirements:

- The product is manufactured as per IFRA code of practices.
- The product is neither restricted nor prohibited by IFRA for use in Fragrances.
- Product is manufactured in keeping intention of the fragrance use.
- The product confirms to IFRA 48<sup>th</sup> amendment.

## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION

Product Name : **OLIBANUM OIL** (Frankincense oil)  
Category of product : Essential oil  
CAS # : 8016-36-2  
Fema No : 2816  
CUSTOMS TARRIF CODE : 3301 2990

**Company** : MADAR Corporation Ltd  
19-20 Sandleheath Industrial Estate,  
Fordingbridge, Hampshire SP6 1PA  
Phone: 01425 655555  
Email: [sales@madarcorporation.co.uk](mailto:sales@madarcorporation.co.uk)

### 2. HAZARDS IDENTIFICATION

<b>Physical hazards</b>	Flammable liquids	Category 3
<b>Health hazards</b>	Skin corrosion/irritation	Category 2
	Sensitization, skin	Category 1
	Aspiration hazard	Category 1
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2

#### Label elements

##### Pictogram



##### Signal word

Danger

##### Hazard statement

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

##### Precautionary statement

##### Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathg mist or vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.





<b>Response</b>	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it
<b>Storage</b>	Store in a well-ventilated place. Store locked up.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise Classified (HNOC)</b>	none known.
<b>Supplementary precautionary Statements</b>	100% of the mixture consists of component(s) of unknown acute oral toxicity. 100% of the mixture consists of component(s) of unknown acute dermal toxicity. 100% of the mixture consists of component(s) of unknown acute inhalation toxicity.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### Substances

Chemical name	Common name and synonyms	CAS number	%
OLIBANUM OIL		8016-36-2	100

#### Additional components

Chemical name	Common name and synonyms	CAS number	%
ALPHA PINENE	dextro, laevo-pin-2(3)-ene 2,6,6-trimethyl bicyclo-3,1,1-2-heptene 4,7,7-trimethylbicyclo[3.1.1]hept-3-ene	80-56-8	10-14
ALPHA THUJENE	3-Thujene (-)-3-Thujene	2867-05-2	60-65
LIMONENE	dextro, laevo 1-methyl-4-(1-methylethenyl)-cyclohexene	138-86-3	1.5-3.5
BETAA PINENE	7,7-dimethyl-4-methylidenebicyclo[3.1.1]heptane (1)-6,6-dimethyl-2-methylene bicyclo(3.1.1)heptane	127-91-3	1-3
SABINENE	4(10)-Thujene Thuj-4(10)-ene	3387-41-5	5-8
MYRCENE	7-Methyl-3-methyleneocta-1,6-diene 7-Methyl-3-methylene-1,6-octadiene	123-35-3	1-3
D-3 CARENE	3,7,7-Trimethylbicyclo[4.1.0]hept-3-ene	13466-78-9	2.5-5
LINALOOL	2,6-DIMETHYL-2,7-OCTADIENE-6-OL 1,6-Octadien-3-ol, 3,7-dimethyl- 3,7-Dimethylocta-1,6-dien-3-ol <u>LINALYL ALCOHOL</u>	78-70-6	0.1-2

EUCALYPTOL	4,7,7- trimethyl-8-oxabicyclo[2.2.2]octane 1,8-cineole 1,3,3-trimethyl oxabicyclo(2.2.2)octane 1,8-oxi-do-para-menthane	470-82-6	0.1-2
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#### 4. FIRST AID MEASURES

##### 4.1. Description of First Aid Measures

- General** : Take phrases in sections 2 and 15 into account. Consult a Physician. Move Out of Dangerous Area
- Inhalation** : Remove from the exposure area to fresh air. Give artificial Respiration if Necessary
- Ingestion** : Rinse mouth with plenty of water. Seek medical advice immediately.
- Skin Contact** : Remove contaminated clothing. Wash thoroughly with soap and water. Seek Medical advice if irritation persists or there is any sign of tissue damage.
- Eye Contact** : Flush with plenty of water, seek medical advice if necessary.

##### 4.2. Indication of Any immediate medical Attention and Special Treatments needed

No data Available

#### 5. FIRE-FIGHTING MEASURES

- Extinguishing Media** : Carbon dioxide, foam or dry powder  
Use water Spray, DO NOT USE A DIRECT WATER JET  
In case of overheating, cool containers to avoid a pressure increase
- Special Hazard Arising** : No data available
- Combustion Products** : Carbon dioxide and unidentified organic compounds.
- Special Protective Equipment:** Wear protective clothing and avoid inhalation of vapours
- For Fire fighters only** : Wear Self-Contained Breathing apparatus for if necessary

#### 6. ACCIDENTAL RELEASE MEASURES

##### 6.1. Personal precautions, protective equipment and emergency procedures:

Remove all sources of ignition. Avoid inhalation, skin and eye contact. Ensure proper ventilation.

##### 6.2. Environmental precautions:

Do not discharge directly into drains or the soil. Keep away from surface and ground water

##### 6.3. Methods and material for containment and cleaning up

Soak up spillage with sand or other inert absorbent material such as earth or vermiculite; transfer used material to a suitable waste container and dispose in accordance with regulations.

##### 6.4. Reference to other sections:

Take Risk, Safety and Precautionary phrases (section 16) into account

#### 7. HANDLING AND STORAGE

##### 7.1. Precautions for safe handling

Maintain good occupational and personal hygiene. Avoid inhalation and contact with skin and eyes.

## 7.2. Handling

Wear safety glasses, rubber gloves and apron when handling.

## 7.3. Storage

Do not store in close proximity to heat, sparks, open flames, strong acids, and strong bases. To minimise product degradation, avoid prolonged exposure of the material to air. Keep container tightly closed when not in use.

## 7.4. Conditions for safe storage, including any incompatibilities

Store in tightly sealed original containers away from ignition sources and in a cool place.

## 7.5. Specific End Use(s)

Apart from the uses mentioned in this Documents, no other specific uses are stipulated at this time.

## 7.6. Shelf life

Not more than 3 years, when stored as recommended above.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

### EXPOSURE CONTROLS:



Wear protective Equipments – Protective Gloves, Goggles and Coat

### Ventilation

Mechanical exhaust may be needed in confined and warm areas.

### Safety Station

An eyewash and safety shower should be readily available.

### Contaminated Equipment

Clean contaminated equipment with soap and water.

## 8.3. Personal Protection

### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.



### **Body Protection**

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### **Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	Free flowing liquid
Colour	:	Pale yellow to golden yellow
Odour	:	A characteristic aromatic somewhat camphoraceous odour
Boiling point	:	Not determined
Vapour pressure	:	Not determined
Flash point	:	41°C closed cup
Oxidising properties	:	Not determined
Explosive properties	:	Not explosive
Flammability limits	:	Not determined
Solubility in water (Weight %):	:	< 0.1
Solubility in 90% Alcohol	:	Soluble

## **10. STABILITY AND REACTIVITY**

### **Reactivity**

No data available

### **Conditions to Avoid**

Prolonged or excessive heat and/or exposure to air may cause decomposition or oxidation of the material.

### **Materials to avoid**

Contact with Chemicals may decompose the ingredients present in it. If possible avoid contact with all kinds of Chemical. Avoid Light and Extreme temperatures to avoid ignition

### **Possibility of Hazardous Reactions**

No data Available



### **Incompatible materials**

Strong bases, Strong oxidizing agents, and highly reactive chemicals which may produce unknown reaction.

### **Hazardous Decomposition Products**

Formed under Fire Conditions : Oxides of Carbon  
Other Decomposition Products : Not determined

## **11. TOXICOLOGY INFORMATION**

### **Information on likely routes of exposure**

Inhalation	No adverse effects due to inhalation are expected.
Skin contact	May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation
<b>Ingestion</b>	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, edness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash.

### **Information on toxicological effects**

<b>Acute toxicity</b>	May be fatal if swallowed and enters airways..
<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/eye irritation</b>	Direct contact with eyes may cause temporary irritation.
<b>Respiratory or skin sensitization</b>	
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.
<b>Skin sensitization</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

### **Carcinogenicity**

#### **IARC Monographs. Overall Evaluation of Carcinogenicity**

Not listed.

#### **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

Not regulated.

#### **US. National Toxicology Program (NTP) Report on Carcinogens**

Not listed.

#### **US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not available.

<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.
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<b>Specific target organ toxicity - single exposure</b>	Not classified.
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<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
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**Aspiration hazard**

May be harmful if swallowed and enters airways

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Toxic to aquatic life with long lasting effects.

**Persistence and degradability**

No data is available on the degradability of this substance.

**Bioaccumulative potential**

No data available.

**Mobility in soil**

No data available

**Other adverse effects**

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

**13. DISPOSAL CONSIDERATION**

Dispose in accordance with the law and local regulations. Treat as trade effluent. In the event of a spillage, the oil can be contained by sand or soil and absorbed by paper from which the oil will evaporate.

**14. TRANSPORT INFORMATION**

The oil can be safely stored or transported in sound metal drums or bottles at ambient temperatures. Store in full sealed containers, keep cool and protect from light to preserve quality, preferred container for long term storage - stainless steel or glass. UN 1197 FLAMMABLE LIQUID, Extract, flavouring , liquid. CLASS: 3, PG III.

**AIR FREIGHTS**

Air freights are done in conformance to latest IATA/ICAO regulations with the name and address of the notifying party on the cartons

**DOT (US)**

Not dangerous Goods

**IMDG**

Not dangerous Goods

**IATA**

Not dangerous Goods

**15. REGULATORY INFORMATION**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

**Chemical safety assessment**

No data available at this time

REGULATORY STATUS

CAS# 8016- 36- 2

FDA NO # 172.510



Fema NO # 2816  
Council of Europe NO# 93n  
H-No. #3301.2990

## **16. OTHER INFORMATION**

### **16.1. References**

1. The Essential oils by Gunther
2. Wealth Asia disk 2.2 (Publication of CSIR, India)
3. Essential oils by Dr. Brain M Lawrence
4. Food Chemical codex
5. Source Book of Flavours by Gary Reineccius

### **16.2. Uses**

### **16.3. Further Information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. MADAR Corporation Ltd. Company and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

*Computer edited Certificate - valid without signature*  
*UPDATED ON 07/02/20*



**SPECIFICATION SHEET**  
**Frankincense**

Code CAS # : 97952-72-2

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<b>TEST</b>	<b>REQUIREMENT</b>	<b>RESULTS</b>
Appearance	Free flowing liquid	Conforms
Colour	Pale yellow to golden yellow	Conforms
Odour	A characteristic odour somewhat camphoraceous odour	Conforms
Specific gravity	Between 0.830 and 0.8700	Conforms
Refractive Index @ 20° C	Between 1.450 and 1.480	Conforms
Optical rotation	Between +5 and +32	Conforms
Alpha Pinene (by GC)	30% - 55 %	Conforms
Heavy Metal	Less than 5ppm	Conforms
Microbial	Not Applicable	NA

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**QUALITY CONTROL:**

1. The product is subjected to all the required analysis to conform the internal specification (As detailed above).
2. The product is subjected gas chromatographic analysis to find out the percentage of Specific components, GC profile and impurities.
3. The product is subjected to careful organoleptic examination.





## **VEGAN & VEGETARIAN STATEMENT**

### **Product - Frankincense Oil**

The above mentioned product manufactured and supplied by MADAR Corporation Limited, comply with a vegan or vegetarian diet. They contain no animal ingredients or animal by-products, use no animal ingredients or by-products in the manufacturing process, and are not tested on animals.

Therefore it is suitable for vegan and vegetarians.

18/12/2018