



**CERTIFICATE OF ANALYSIS**

Product Name	<b>FRANKINCENSE</b>	Botanical Name	<i>Boswellia Serrata</i>
Batch Number	<b>4361001</b>	Production Method	Steam distillation
Best Before End	<b>May 2022</b>	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	0.8391	FCC
Refractive Index at 20°C	1.450 to 1.480	1.456	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: -

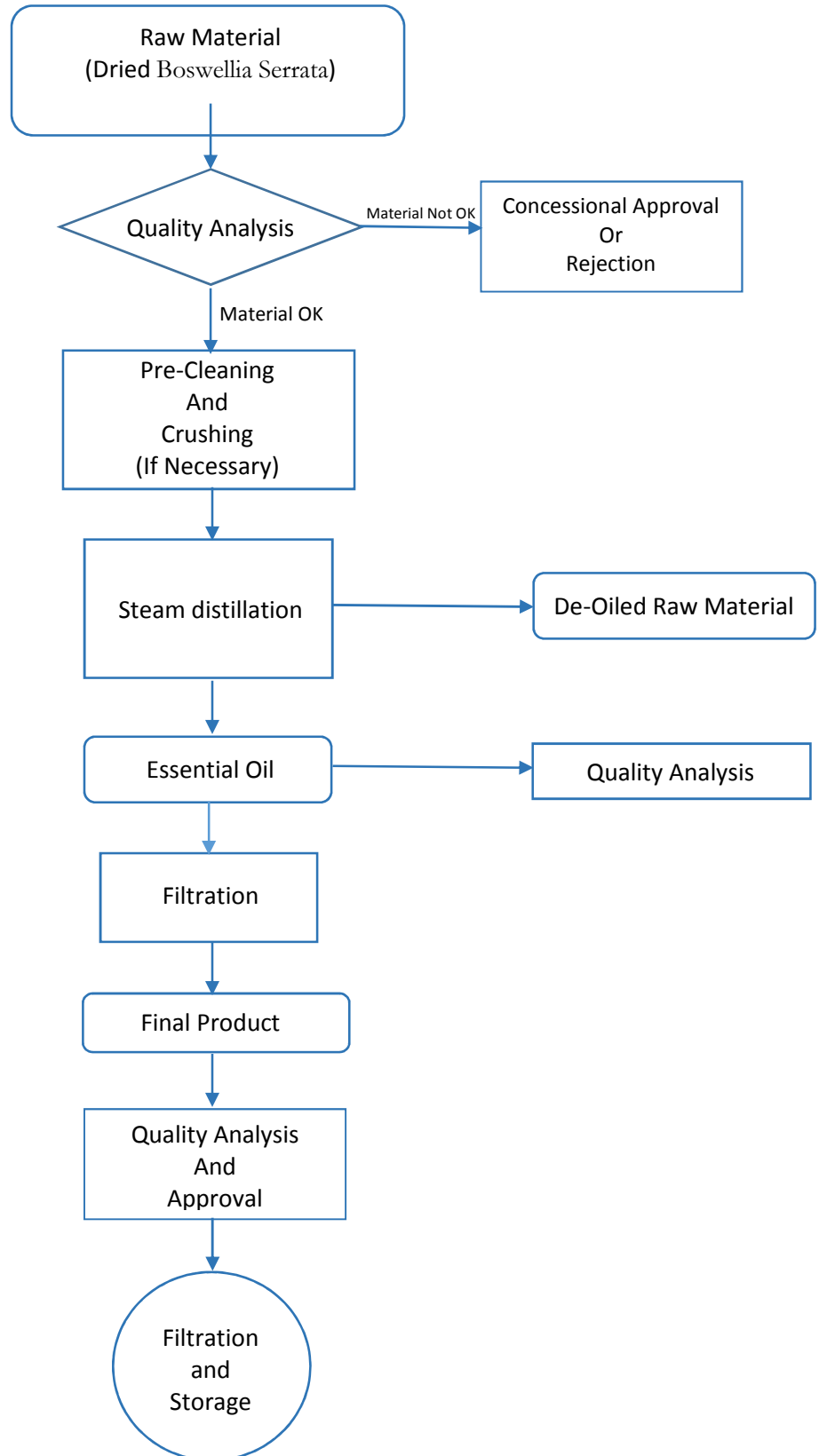
Cosmetics Directive EC No.1223/2009

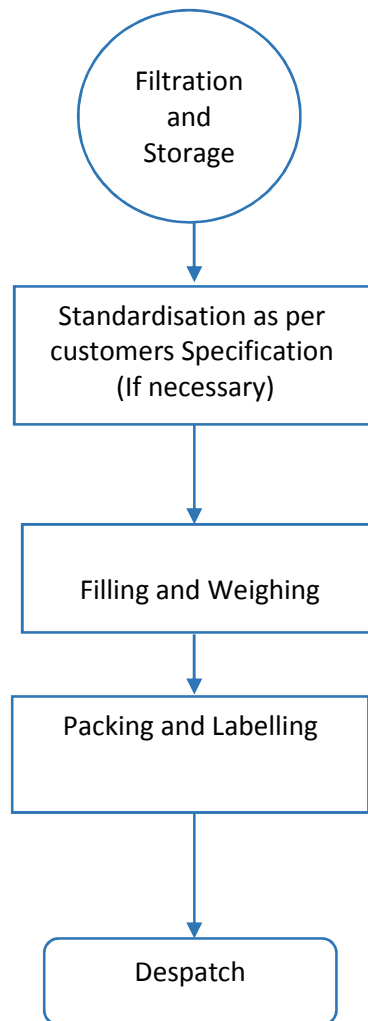
FDA: The Food Allergen Labelling and Consumer Protection Act of 2004(August 2004) (Title II of Public Law 108-282) effective from 1<sup>st</sup> Jan 2006.

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.







#### **4. FIRST AID MEASURES**

##### **Eye Contact**

Flush with water for at least 15 minutes. If irritation develops, get medical attention

##### **Skin contact**

Remove contaminated clothing. Wash affected area with plenty of soap water. If irritation develops, get medical attention.

##### **Inhalation**

Seek fresh air immediately. If breathing is difficult, get medical attention.

##### **Ingestion**

Drink lot of water to dilute substance. Get medical attention.

#### **5. FIRE FIGHTING MEASURES**

##### **Means to Extinguish**

Carbon dioxide, dry chemical, foam. If water must be used, use as a spray only.

##### **Unusual Fire/ Explosion Hazards**

Flammable liquid. Avoid heat, sparks and open flames. Non explosive.

#### **6. ACCIDENTAL RELEASE MEASURES**

##### **Personal precaution**

Specifically given in section 8.

##### **Environmental precautions**

Do not discharge into streams, ponds or Public waters.

##### **Cleanup Procedures**

Small spills should be adsorbed by dirt, sand or other adsorbent. Large spills may be diked and pumped into closed containers for recovery or disposal.

#### **7. HANDLING AND STORAGE**

##### **Handling**

Wear safety glasses, rubber gloves and apron when handling.

##### **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.



### **Shelf life**

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

## **8. EXPOSURE CONTROLS/ PERSONAL PROTECTION**

### **EXPOSURE CONTROLS:**

#### **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.

### **PERSONAL PROTECTION EQUIPMENT:**

#### **Eye Protection**

As a precaution, wear safety glasses or goggles.

#### **Hand protection**

Wear standard industrial type rubber gloves.

#### **Skin Protection**

A rubber apron is recommended when handling large quantities of this material.

#### **Respiratory protection**

A respirator is not normally required. If vapor concentration is high use a organic vapour respirator.

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

Appearance	:	Volatile clear mobile 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
Oxidising properties	:	Not determined
Explosive properties	:	Not explosive.
Flammability limits	:	Not determined.
Specific Gravity	:	Between 0.830 and 0.870
Refractive Index @ 20° C	:	Between 1.450 and 1.480
Optical rotation	:	Between +5 and +32
Solubility in 70% Alcohol	:	soluble.



## **10. STABILITY AND REACTIVITY**

### **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.

## **11. TOXICOLOGICAL INFORMATION**

Not Available

## **12. ECOLOGICAL INFORMATION**

Not Available

## **13. DISPOSAL CONSIDERATION**

In event of 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.

### **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

## **15. REGULATORY INFORMATION**

Regulatory status

The product listed in CAS

CAS# 8016- 36- 2

The product is registered in FDA, Fema and in the council of Europe.

FDA NO # 172.510

Fema NO # 2816

Council of Europe NO# 93n

H-No. #3301.2990



## 16. OTHER INFORMATION

### REFERENCES

1. The Essential oils by Gunther Volume IV
2. Wealth Asia disk 2.2(Publication of CSIR, India)
3. Essential oils 1976- 1978 by Dr. Brain M Lawrence
4. Food Chemical codex
5. Source Book of Flavours by Gary Reineccius
6. Flavour Technology by Heath.

### Uses

The oil is used for the manufacture of perfumes. The oil is also used in aroma therapy.



**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