







# Safety Data Sheet

## 01. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING

1.1 Product Identifier					
Product Name		Frankincense Oil B Serrata			
Biological Definition		Boswellia Serrata Oil is the volatile oil obtained from the gum resin of <i>Boswellia serrata Roxb. ex Colebr. (Fam. Burseraceae)</i> .			
INCI Name		Boswellia Serrata Oil			
Synonyms & Trade Names		-			
CAS-No	97952-72-2	EC No.	308-366-6	EINECS No.	308-366-6
1.2 Relative identified uses of the substance or mixture and uses advised against					
Suitable for cosmetic, fragrance and professional use only.					
1.3 Details of the supplier of the safety data sheet					
1.4 Emergency Tel. No.					

## 02. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
The full text for all hazard statements displayed in Section 16.	
Classification (EC 1272/2008)	
Physical hazards:	Flam. Liq. 3 - H226
Health hazards:	Asp. Tox. 1 – H304, Skin Irrit. 2 – H315, Skin Sens. 1B - H317, Muta. 2 - H341 Carc. 2 - H351, Repr.2 – H361
Environmental hazards:	Aquatic Chronic 2 - H411
2.2 Label Elements	
Label in accordance with (EC) No 1272/2008	
GHS02	GHS08
GHS07	GHS09
	
	
Signal Word	Danger.
Contains	alpha-Pinene, d-Limonene, delta-3-Carene, para-Cymene
Hazard Statements	
H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer.	



H361 Suspected of damaging fertility or the unborn child.  
H411 Toxic to aquatic life with long lasting effects.

#### Precautionary Statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P240 Ground and bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P242 Use non-sparking tools.  
P243 Take action to prevent static discharges  
P261 Avoid breathing vapours/spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
P303+P361+P353 IF ON SKIN (or hair) Take off immediately all contaminated clothing. Rinse skin with water.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P331 Do NOT induce vomiting.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P370+P378 In case of fire Use carbon dioxide, dry chemical, foam to extinguish.  
P391 Collect spillage.  
P501 Dispose of contents in accordance with local, state or national legislation.

#### Supplementary Precautionary Statements

P264 Wash hands and exposed skin thoroughly after handling.

#### 2.3 Other Hazards

PBT or vPvB according to Annex XIII	No additional data available.
Adverse physio-chemical properties	No additional data available.
Adverse effects on human health	No additional data available.

### 03. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substance

**65.0 – 75.0% alpha-Thujene** CAS No: 2867-05-2 EC No: 220-686-7

Classification (EC 1272/2008) Flam. Liq. 3 – H226, Skin Sens. 1B – H317

**4.0 – 8.0% Sabinene** CAS No: 3387-41-5 EC No: 222-212-4

Classification (EC 1272/2008) Acute Tox. 4 - H302

**4.0 – 8.0% alpha-Pinene** CAS No: 80-56-8 EC No: 201-291-9

Classification (EC 1272/2008) Flam. Liq. 3 - H226, Acute Tox. 4 – H302, Asp. Tox. 1 - H304, Skin Irrit. 2 – H315, Skin Sens.1 - H317, Aquatic Acute 1 - H400, Aquatic Chronic 1- H410

**≤ 6.0% d-Limonene** CAS No: 5989-27-5 EC No: 227-813-5

Classification (EC 1272/2008) Flam. Liq. 3 - H226, Asp. Tox. 1 - H304, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410

**1.0 – 5.0% para-Cymene** CAS No: 99-87-6 EC No: 202-796-7

Classification (EC 1272/2008) Flam. Liq. 3 – H226, Asp. Tox. 1 – H304, Repr. 2 - H361, Aquatic Chronic 2 - H411



<b>1.0 – 5.0% delta-3-Carene</b> CAS No: 13466-78-9 EC No: 236-719-3		
Classification (EC 1272/2008) Flam. Liq. 3 - H226, Asp. Tox. 1 - H304, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Aquatic Chronic 3 - H412		
<b>≤ 3.6% Estragole</b>	CAS No: 140-67-0	EC No: 205-427-8
Classification (EC 1272/2008) Acute Tox. 4 - H302, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Muta. 2 - H341, Carc. 2 - H351, Aquatic Chronic 3 - H412		
<b>1.0 – 5.0% alpha-Phellandrene</b>	CAS No: 99-83-2	EC No: 202-792-5
Classification (EC 1272/2008) Flam. Liq. 3 - H226, Asp. Tox. 1 - H304		
<b>≤ 1.0% Myrcene</b>	CAS No: 123-35-3	EC No: 204-622-5
Classification (EC 1272/2008) Flam. Liq. 3 - H226, Asp. Tox. 1 - H304, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410		
<b>≤ 1.0% beta-Pinene</b>	CAS No: 127-91-3	EC No: 204-872-5
Classification (EC 1272/2008) Flam. Liq. 3 - H226, Asp. Tox. 1 - H304, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410		
<b>≤ 1.0% gamma-Terpinene</b>	CAS No: 99-85-4	EC No: 202-794-6
Classification (EC 1272/2008) Flam. Liq. 3 – H226, Repr. 2 - H361, Aquatic Chronic 2 - H411		

#### **04. FIRST AID MEASURES**

<b>4.1 Description of first aid measures</b>	
Inhalation	Remove from exposure area to fresh air. Get medical advice/attention.
Ingestion	Do not induce vomiting. Ingestion may cause nausea and vomiting. Immediately rinse mouth and provide fresh air. Get medical advice/attention if symptoms persist.
Skin Contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical advice/attention if any discomfort continues.
Eye Contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical advice/attention. Continue to rinse.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	
No additional data available.	
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	
No additional data available.	

#### **05. FIRE-FIGHTING MEASURES**

<b>5.1 Extinguishing Media</b>	
Suitable extinguishing media: Foam. Carbon dioxide. Dry Chemical Powder. Unsuitable extinguishing media: Direct water jet.	
<b>5.2 Special hazards arising from the product</b>	
A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke.	



Thermal decomposition or combustion products may include the following substances:  
Carbon dioxide (CO<sub>2</sub>), Carbon monoxide (CO), other toxic gases.  
Containers close to fire should be removed or cooled with water.

### 5.3 Advice for firefighters

Avoid inhalation of generated fumes or vapours. Wear self-contained breathing apparatus and appropriate protective clothing.

## 06. ACCIDENTAL RELEASE MEASURES

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

Wear protective clothing as described in Section 8 of this safety data sheet. Handle the product using protective gloves resistant to the chemicals exposed. Avoid contact with skin and inhalation of its vapours. Maintain adequate ventilation in the working area after spilling.

### 6.2 Environmental Precautions

Do not allow to enter sewers/ surface or ground water.

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

Absorb with liquid binding material e.g. sand, diatomaceous earth or vermiculite.  
Collect in closed and suitable containers for disposal in accordance with local, state or national legislation. Prevent any material from entering drains or waterways. Wash spill site after removal with a detergent.

### 6.4 Reference to other sections

See sections 4, 7, 8 & 13.

## 07. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Wear personal protective equipment. Do not breathe vapours or spray mist. Use only in area provided with adequate ventilation. Keep away from heat, sparks and open flame. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take necessary action to avoid static discharge as this might cause ignition of vapours.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in tightly-closed, original container in a dry, cool and well-ventilated area, away from potential sources of ignition and protected from light.

### 7.3 Specific end use(s)

No additional data available.

## 08. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

No additional data available.

### 8.2 Exposure controls

#### Protective Equipment



#### Process Conditions

Provide eyewash station.

#### Engineering Measures

Provide adequate ventilation or respiratory protection.

#### Respiratory Equipment

Usually not required in a well-ventilated area. In confined or poorly ventilated area approved respiratory masks may be required.



Hand Protection	Wear suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.
Eye Protection	Avoid contact with eyes. Wear safety goggles in accordance with standard EN166.
Other Protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene Measures	Good personal hygiene practices are always advisable, especially when working with chemicals / oils.
Personal Protection	Use of chemical resistant clothing is recommended when handling.
Skin Protection	Wear appropriate protective clothing to prevent skin contact. Work clothing worn by personnel should be laundered regularly. After contact with the product, all parts of the body that have been exposed must be washed thoroughly.
Environmental Exposure Controls	Avoid discharging into drainage water. Only eliminate by authorised companies.

## 09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	
Appearance	Mobile oily liquid, colourless to yellow.
Colour	Colourless to yellow.
Odour	Characteristic.
Relative Density	Approx. 0.860 @ 20°C.
Flash Point (°C)	43
Refractive Index	Approx. 1.465 @ 20°C.
Melting Point (°C)	No additional data available.
Boiling Point (°C)	No additional data available.
Vapour Pressure	No additional data available.
Solubility in Water @20°C	Negligible.
Auto-ignition temperature (°C)	No additional data available.
9.2 Other information	
No additional data available.	

## 10. STABILITY AND REACTIVITY

10.1 Reactivity	
It presents no significant reactivity hazards, by itself or in contact with water.	
10.2 Chemical stability	
Stable under recommended storage conditions.	
10.3 Possible hazardous reactions	
Not expected under normal conditions of use.	
10.4 Conditions to Avoid	
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Prevent storing the product in open containers for long periods so as to prevent product deterioration.	
10.5 Incompatible materials	
Avoid contact with strong acids, alkalis and oxidising agents.	
10.6 Hazardous Decomposition Products	
Not expected under normal temperature conditions and recommended use.	



Thermal decomposition may release/form oxides of carbon (carbon monoxide, carbon dioxide) and other toxic gases.

## **11. TOXOLOGICAL INFORMATION**

<b>11.1 Information on toxicological effects</b>	
Acute Toxicity	Not classified.
Skin corrosion / irritation	Causes skin irritation.
Serious eye damage / irritation	Not classified.
Respiratory or skin sensitisation	Skin - May cause an allergic skin reaction.
Germ Cell Mutagenicity	Suspected of causing genetic defects.
Carcinogenicity	Suspected of causing cancer.
Reproductive toxicity	Suspected of damaging fertility or the unborn child.
STOT-single exposure	Not classified.
STOT-repeated exposure	Not classified.
Aspiration hazard	May be fatal if swallowed and enters airways.
Photo-toxicity	Not regarded as photo-toxic.
Other Information	No additional data available.

## **12. ECOLOGICAL INFORMATION**

<b>12.1 Toxicity</b>	
	Toxic to aquatic life with long lasting effects.
<b>12.2 Persistence &amp; degradability</b>	
	No additional data available.
<b>12.3 Bioaccumulation Potential</b>	
	No additional data available.
<b>12.4 Mobility in soil</b>	
	No additional data available.
<b>12.5 Results of PBT and vPvB Assessment</b>	
	None.
<b>12.6 Other adverse effects</b>	
	Do not discharge into the environment, especially not into waterways.

## **13. DISPOSAL CONSIDERATIONS**

<b>13.1 Waste treatment methods</b>	
	Do not release into the environment. Collect waste into suitable containers and contact hazardous chemical disposal company.

## **14. TRANSPORT INFORMATION**

<b>14.1 UN number</b>	
UN No. Road	1169
UN No. SEA	1169
UN No. AIR	1169
<b>14.2 UN proper shipping name</b>	
EXTRACTS, AROMATIC, LIQUID.	

**14.3 Transport hazard class(es)****ADR/RID**

ADR/RID– Class 3

ADR Classification Code – F1

Special provisions – 601 604E

Limited quantities – 5L

Expected quantities – E1

Emergency Action Code – 3Y

Tunnel Restriction Code – D/E

**IMDG**

IMDG – Class 3

Special Provisions – 601 640E

Limited quantities – 5L

Expected quantities – E1

IMDG EMS – F-E, S-D

Stowage and Handling – Category A

**ICAO/IATA**

ICAO/IATA– Class 3

IATA proper shipping name - EXTRACTS, AROMATIC, LIQUID

Expected quantities – E1

Transport Labels

**14.4 Packing group**

ADR/RID Packing group III

IMDG Packing group III

ICAO Packing group III

**14.5 Environmental hazards**

Environmentally Hazardous Substance/Marine Pollutant.

**14.6 Special precautions for user**

See sections 6 – 8.

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code**

Not applicable.

**15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Guidance Notes



Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

## 15.2 Chemical safety assessment

No additional information available.

## 16. OTHER INFORMATION

Hazard and/or Precautionary Statements in Full	H226 Flammable liquid & vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer. H361 Suspected of damaging fertility or the unborn child. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.
Other Information	None.
Revision Date	12/01/2021
Reason for revision	04 Updated SDS.
Rev No/Repl, SDS Generated	04, replaces 03

**DISCLAIMER:** This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

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