

## MATERIAL SAFETY DATA SHEET

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

Product Name	Frankincense Carterii Essential Oil
INCI No	<i>Boswellia Carterii</i> Oil
Synonyms & Trade names	-
Botanical Name/Family	Burseraceae




CAS - No.	89957-98-2 / 8050-07-5	FDA No.	N/A	EC No.	289-620-2 / 232-474-1
EINEC No.	289-620-2 / 232-474-1	FEMA No.	N/A		

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

2.1. Ingredients			
NAME OF CONSTITUENT	CAS NO.	EC NO.	% COMPOSITION
Alpha-Pinene	80-56-8	201-291-9	25.0 - 50.0%
Classification (EC 1272/2008):	Flam. Liq. 3 - H226, Asp Tox. 1 - H304, Skin Sens. 1 - H317, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410		
L-Beta-Pinene	18172-67-3	242-060-2	10.0 - 25.0%
Classification (EC 1272/2008):	Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410		
Para-Cymene	99-87-6	202-796-7	10.0 - 25.0%
Classification (EC 1272/2008):	Asp Tox. 1 - H304		

Myrcene	123-35-3	204-622-5	2.5 - 10.0%
Classification (EC 1272/2008):	Asp. Tox. 1 - H304, Eye Irrit. 2 - H319, Flam Liq. 3 - H226, Skin Irrit. 2 - H315		

### 3. HAZARD IDENTIFICATION

3.1. Classification of substance or mixture	
The full text for all hazard statements is displayed in section 16	
3.2. Classification (EC 1272/2008)	
Flam. Liq.	Category 3 H226
Skin Irrit	Category 2 H315
Skin Sens.	Category 1 H317
Aquatic Chronic	Category 2 H411
3.3. Label Elements	
Labels in accordance with (EC) No 1272/2008	
   GHS07      GHS09      GHS02	
Signal word	Warning
Contains	Alpha-Pinene, L-Beta-Pinene, @-P-Mentha-1,8-diene
3.4. Hazardous Statements	
H226	Flammable liquid and vapour
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H41	Toxic to aquatic life with long lasting effects
3.5. Precautionary Statements	
P210	Keep away from heat, sparks, open flames, hot surfaces. No smoking
P273	Avoid release to the environment

<b>3.5. Precautionary Statements</b>	
P210	Keep away from heat, sparks, open flames, hot surfaces. No smoking
P273	Avoid release to the environment
P280	Wear protective gloves, protective clothing and eye / face protection
P321	Specific treatment...
P333/P313	If skin irritation or rash occurs: get medical advice or attention
P363	Wash contaminated clothing before reuse
P391	Collect spillage
<b>3.6. Supplementary statements</b>	
None	
<b>3.7. Other hazards</b>	
PBT or vPvB according to Annex XIII	None
Adverse physio-chemical properties	No additional data available
Adverse effects on human health	No additional data available

## **4. FIRST AID MEASURES**

<b>4.1. Description of first aid measures</b>	
Inhalation	Remove the victim immediately from the source of exposure. General first aid, res, warmth and fresh air. Place the unconscious person on the side in the recovery position and ensure breathing. Seek medical treatment in case of complaints
Ingestion	Do not give the patient anything orally. In the event of swallowing, if the quantity is small, rinse the mouth with water and consult a Dr. Do not induce vomiting. Seek medical attention immediately if symptoms persist
Skin contact	Remove contaminated clothing. Wash the skin immediately with soap and water. Seek medical attention if irritation persists.
Eye contact	Make sure to remove any contact lenses from the eye before rinsing. Wash eyes with plenty of water while lifting the eyelid. Continue for 15min. If irritation still persists, see medical advice

<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

## 5. FIRE FIGHTING MEASURES

<b>5.1. Extinguishing media</b>	
Suitable extinguishing media	Co2, dry powder or foam. Spray at base of flames
<b>5.2. Special hazards arising from the product</b>	
In case of fire, carbon monoxide or unidentified organic compounds may be liberated	
<b>5.3. Advice for firefighters</b>	
Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus	

## 6. ACCIDENTAL RELEASE MEASURES

<b>6.1. Personal precaution, protection equipment and emergency procedure</b>	
Non-first aiders	Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area. Avoid any contact with the skin and eyes
First aiders	First aid workers will be equipped with suitable personal protective equipment
<b>6.2. Environmental precautions</b>	
Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal. Prevent any material from entering drains or waterways. If the product contaminated waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures	
<b>6.3. Methods and material for containment and cleaning up</b>	
Soak up with inert absorbent material (e.g., sand, silica gel, universal binder, sawdust). Dispose collected material according to regulations	
<b>6.4. Reference to other sections</b>	
See sections 7, 8 and 13	

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Requirements relating to storage apply to all facilities where the mixture is handled. Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

#### Precautions for safe handling

Always wash hands after handling. Remove and wash contaminated clothing before reusing. Ensure that there is adequate ventilation, especially in confined areas. Remove contaminated clothing and protective equipment before entering eating areas

#### Fire prevention

Handle in well-ventilated areas. Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air. Prevent the formation of flammable or explosive concentrations in air and avoid vapour concentrations higher than the occupational exposure limits. Prevent the accumulation of electrostatic charges with connections to earth.

The mixture can become electrostatically charged: always earth during decanting operations. Wear antistatic shoes and clothing and floors should be electrically conductive. Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected. Keep packages tightly closed and away from sources of heat, sparks and naked flames. Do not use tools which may produce sparks. Do not smoke. Prevent access by unauthorised personnel

#### Recommended equipment and procedures

For personal protection, see section 8. Observe precautions stated on labels and also industrial safety regulations. Packages which have been opened must be reclosed carefully and stored in an upright position

#### Prohibited equipment

No smoking, eating or drinking in areas where the mixture is used. Never open the packages under pressure

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

Keep the container tightly closed in a dry, well-ventilated place. Keep away from all sources of ignition - do not smoke. Keep well away from all sources of ignition, heat and direct sunlight. Avoid accumulation of electrostatic charges. The floor must be impermeable and form a collection basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.



#### Packaging

Always keep in packaging made of an identical material to the original

### 7.3. Specific end use(s)

No additional data available

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters					
Occupational exposure limits					
- ACGIH TLV (American Conference of Governmental Industrial Hygienist, Threshold Limit Value, 2010)					
CAS No.	TWA	STEL	Ceiling	Definition	Criteria
80-56-8	20 ppm	-	-	-	-
8.2. Protective equipment					
 					
Process Conditions	Provide eye wash station				
Engineering measures	Provide adequate ventilation				
Respiratory equipment	Ensure adequate ventilation				
Hand protection	Avoid all skin contact. Wear gloves				
Eye protection	Wear approved safety goggles with built in frame tested. Avoid contact with eyes				
Other protection	Use personal protective equipment that is clean and has been properly maintained				
Hygiene measures	Good personal hygiene practices are always advisable, especially when working with chemicals / oils.				
Personal protection	No additional data available				
Skin protection	Avoid skin contact, Wear suitable protective clothing. Suitable type of protective clothing. In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks.				
Environmental exposure controls	The usual precautions in handling chemicals have to be observed				

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>9.1. Information on basic physical and chemical properties</b>	
Appearance	Mobile liquid
Colour	Colourless to yellow
Odour	Characteristic
Flash point	+ 36.0
Relative density	0.860 - 0.895 @ 20°C
Refractive index	1.440 - 1.480 @ 20°C
Boiling point	No additional data available
Melting point	No additional data available
Vapour pressure	Between 175 kPa and 300 kPa inclusive
Solubility in water @ 20°C	Insoluble in water
Auto ignition temperature	No additional data available
<b>9.2. Other information</b>	
No additional data available	

## 10. STABILITY AND REACTIVITY

<b>10.1. Reactivity</b>
No additional data available
<b>10.2. Chemistry stability</b>
This mixture is stable under the recommended handling and storage conditions in Section 7
<b>10.3. Possible hazardous reactions</b>
When exposed to high temperatures, the mixtures can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide

## 10.4. Conditions to avoid

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

### AVOID:

- accumulation of electrostatic charges
- heating
- heat
- flames and hot surfaces

## 10.5. Incompatible materials

No additional data available

## 10.6. Hazardous decomposition products

The thermal decomposition may release / form: carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>)

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Acute toxicity	Para-Cymene (99-87-6)	Oral Route	LD50 = 4750 mg/kg
	Alpha-Pinene (80-56-8)	Oral Route	LD50 = 3500 mg/kg
Skin irritation or corrosion	May cause irreversible damage to the skin. Repeated prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin. May cause an allergic reaction by skin contact		
Serious eye damage/ irritation	Splashes in the eyes may cause irritation and reversible damage		
Respiratory or skin sensitisation	Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and in extreme cases, loss of consciousness		
Germ Cell Mutagenicity	No additional data available		
Carcinogenicity	Monograph(s) from the IARC (International Agency for Research on Cancer) CAS 5989-27-5: IARC Group 3: The agent is not classified as to its carcinogenicity to humans		



Reproductive toxicity	No additional data available
STOT-single exposure	No additional data available
STOT-repeated exposure	No additional data available
Aspiration hazard	No additional data available
Photo-toxicity	No additional data available
Other information	No additional data available



## 12. ECOLOGICAL INFORMATION

<b>12.1. Toxicity</b>	
Toxic to aquatic life with long lasting effects. The product must not be allowed to run into drains or waterways	
<b>12.2. Persistence and 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>	
No additional data available	
<b>12.6. Other adverse effects</b>	
No additional data available	

## 13. DISPOSAL CONSIDERATIONS

<b>13.1. Waste treatment methods</b>	
General information	Do not release into the environment.
Soiled packaging	Empty container completely. Keep label(s) on the container. Give to a certified disposal contractor

## 14. TRANSPORT INFORMATION

14.1. UN numbers			
Road	1169		
Sea	1169		
Air	1169		
14.2. UN Proper shipping name			
EXTRACTS, AROMATIC, LIQUID			
14.3. Transport hazard class(es)			
ADR/RID/ADN	Class 3	Flammable liquid	<b>TRANSPORT LABEL</b> 
IMDG	Class 3	Flammable liquid	
ICAO	Class 3	Flammable liquid	
14.4. Packing group			
ADR/RID/ADN	III		
IMDG	III		
ICAO	III		
14.5. Environmental hazards			
Environmentally hazardous substance/marine pollutant			
			
14.6. Special precautions for user			
See section 6 to 8			
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code			
Packed and transferred according to transport regulations			

## 15. REGULATORY INFORMATION

<b>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
Statutory instruments	The chemicals [Hazard information and packaging for supply regulation 2009 (SI 2009 NO 716)]
Guidance notes	Workplace exposure limit EH40. CHIP for everyone HSG(1)
EU Legislation	Regulation (EC) No 1907/2006 of the European Parliament and 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 Regulations (EC) No 1488/94 as well as Council Directive 79/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC, 2000/21/EC, including amendments
<b>15.2. Chemical safety assessment</b>	
No additional data available	

## 16. OTHER INFORMATION

<b>16.1. Hazard and / or Precautionary Statements in Full</b>	
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
H319	Causes serious eye irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects