



Safety Data Sheet

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

1.1 Product Identifier					
Product Name		Frankincense Oil Thurifera			
Biological Definition		Volatile essential oil obtained from the dried, ground gum of the olibanum, <i>Boswellia thurifera</i> .			
INCI Name		Boswellia Thurifera Oil (not an official INCI name)			
Synonyms & Trade Names		-			
CAS-No	89957-98-2 / 8050-07-5	EC No.	289-620-2 / 232-474-1	EINECS No.	289-620-2 / 232-474-1
1.2 Relative identified uses of the substance or mixture and uses advised against					
Fragrance use only.					
1.3 Details of the supplier of the safety data sheet					
Golden Bough Botanicals Inc 12-1585 Cliveden Ave Delta BC V3M 6M1					
1.4 Emergency Tel. No.		604-540-8700 (Monday-Friday 8:30 am-4:30 pm)			

02. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
The full text for all hazard statements are displayed in Section 16.	
Classification (EC 1272/2008)	
Flammable liquid, Category 3 (Flam. Liq. 3, H226). Skin irritation, Category 2 (Skin Irrit. 2, H315). Skin sensitisation, Category 1B (Skin Sens. 1B, H317). Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).	
2.2 Label Elements	
Label in accordance with (EC) No 1272/2008	
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>GHS07</p> </div> <div style="text-align: center;"> <p>GHS09</p> </div> <div style="text-align: center;"> <p>GHS02</p> </div> </div>	
Signal Word	Warning.
Contains	EC 201-291-9 ALPHA-PINENE X EC 242-060-2 L-BETA-PINENE 601-029-00-7 (R)-P-MENTHA-1,8-DIENE
Hazard Statements	
H226 Flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects.	
Precautionary Statements	
P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.	

<p>P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P321 Specific treatment (see ... on this label). P333 + P313 If skin irritation or rash occurs: Get medical advice/attention. P363 Wash contaminated clothing before reuse. P391 Collect spillage.</p>	
Supplementary Precautionary Statements	
None.	
2.3 Other Hazards	
PBT or vPvB according to Annex XIII	The mixture does not contain any substances classified as 'Substances of Very High Concern' (SVHC) by the European Chemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table . The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.
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		
25.0 - 50.0% ALPHA-PINENE X	CAS-No.: 80-56-8	EC No201-291-9
Classification (EC 1272/2008) GHS08, GHS02, GHS07, Dgr, Asp. Tox. 1, H304, Flam. Liq. 3, H226, Skin Irrit. 2, H315, Skin Sens. 1B, H317		
10.0 - 25.0% L-BETA-PINENE	CAS-No.: 18172-67-3	EC No: 242-060-2
Classification (EC 1272/2008) GHS08, GHS02, GHS07, Dgr, Asp. Tox. 1, H304, Flam. Liq. 3, H226, Skin Irrit. 2, H315, Skin Sens. 1B, H317		
10.0 - 25.0% (R)-P-MENTHA-1,8-DIENE	CAS-No.: 5989-27-5	EC No: 227-813-5
Classification (EC 1272/2008) GHS02, GHS07, GHS09, Wng, Flam. Liq. 3, H226, Skin Irrit. 2, H315, Skin Sens. 1, H317, Aquatic Acute 1, H400, M Acute = 1, Aquatic Chronic 1, H410, M Chronic = 1		
10.0 - 25.0% PARA-CYMENE	CAS-No.: 99-87-6	EC No: 202-796-7
Classification (EC 1272/2008) GHS08, GHS02, GHS09, Dgr, Asp. Tox. 1, H304, Flam. Liq. 3, H226, Aquatic Chronic 2, H411		
2.5 - 10.0% BETA-CARYOPHYLLENE	CAS-No.: 87-44-5	EC No: 201-746-1
Classification (EC 1272/2008) GHS08, Dgr, Asp. Tox. 1, H304		
2.5 - 10.0% MYRCENE	CAS-No.: 123-35-3	EC No: 204-622-5
Classification (EC 1272/2008) GHS08, GHS02, GHS07, Dgr, Asp. Tox. 1, H304, Eye Irrit. 2, H319, Flam. Liq. 3, H226, Skin Irrit. 2, H315		

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04. FIRST AID MEASURES

4.1 Description of first aid measures	
Inhalation	Remove victim immediately from source of exposure. General first aid, rest, warmth and fresh air. Place 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 (no more than one mouthful), rinse the mouth with water and consult a doctor. Keep the person exposed at rest. Do not force vomiting. Seek medical attention immediately, showing the label. If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.
Skin Contact	Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner. Watch out for any remaining product between skin and clothing, watches, shoes, etc. In the event of an allergic reaction, seek medical attention. If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.
Eye Contact	Remove contact lenses. Immediately flush eyes with plenty of water by lifting eye lids for at least 20-30 minutes. Seek immediate medical advice. Continue to rinse. Seek medical advice if irritation or discomfort persists.
4.2 Most important symptoms and effects, both acute and delayed	
No additional data available.	
4.3 Indication of any immediate medical attention and special treatment needed	
No additional data available.	

05. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media	
<p>Flammable.</p> <p>Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires. Keep packages near the fire cool, to prevent pressurised containers from bursting.</p> <p>In the event of a fire, use:</p> <ul style="list-style-type: none"> - sprayed water or water mist - water with AFFF (Aqueous Film Forming Foam) additive - halon - foam - multipurpose ABC powder - BC powder - carbon dioxide (CO₂) <p>Prevent the effluent of fire-fighting measures from entering drains or waterways.</p> <p>In the event of a fire, do not use:</p> <ul style="list-style-type: none"> - water jet 	
5.2 Special hazards arising from the product	
<p>A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.</p> <p>Do not breathe in smoke.</p> <p>In the event of a fire, the following may be formed: carbon monoxide (CO) and carbon dioxide (CO₂)</p>	
5.3 Advice for firefighters	
Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.	

06. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

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.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2 Environmental Precautions

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 contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures. Use drums to dispose of collected waste in compliance with current regulations (see section 13).

6.3 Methods and material for containment and cleaning up.

Soak up with inert absorbent material (e.g. sand, silica gel, universal binder, sawdust). Send for disposal in a suitable container. Clean preferably with a detergent, do not use solvents. Dispose of the material collected according to regulations.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

07. HANDLING AND STORAGE

7.1 Precautions for safe handling

Requirements relating to storage premises 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 re-using.

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 label and also industrial safety regulations. Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures:

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 collecting 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.

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

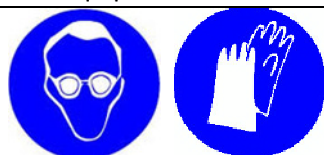
Occupational exposure limits:

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010):

CAS	TWA	STEL	Ceiling	Definition	Criteria
80-56-8	20 ppm	-	-	-	-

8.2 Exposure controls

Protective Equipment



Process Conditions	Provide eyewash station.
Engineering Measures	Ensure adequate ventilation.
Respiratory Equipment	Ensure adequate ventilation.
Hand Protection	Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374. Gloves must be selected according to the application and duration of use at the workstation. Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required. Type of gloves recommended: - Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR)) - PVA (Polyvinyl alcohol) Recommended properties: - Impervious gloves in accordance with standard EN374
Eye Protection	Avoid contact with eyes. Use eye protectors designed to protect against liquid splashes. Before handling, wear safety goggles in accordance with standard EN166.
Other Protection	Use personal protective equipment that is clean and has been properly maintained. Store personal protective equipment in a clean place, away from the work area. Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.
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 (type 3) in accordance with EN14605 to prevent skin contact. In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact. Work clothing worn by personnel

	shall be laundered regularly. After contact with the product, all parts of the body that have been soiled must be washed.
Environmental Exposure Controls	The usual precautions in handling chemicals have to be observed.

09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear mobile liquid, colourless to yellow.
Colour	Colourless to yellow.
Odour	Characteristic.
Relative Density	0.860 - 0.895 @ 20°C.
Flash Point (°C)	+36.0
Refractive Index	1.440 to 1.480 @ 20°C.
Melting Point (°C)	No additional data available.
Boiling Point (°C)	No additional data available.
Vapour Pressure	Between 175 kPa and 300 kPa inclusive.
Solubility in Water @20°C	Insoluble in water.
Auto-ignition temperature (°C)	No additional data available.

9.2 Other information

No additional data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No additional data available.

10.2 Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3 Possible hazardous reactions

When exposed to high temperatures, the mixture 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 (CO₂)

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity	PARA-CYMENE (CAS: 99-87-6)	Oral route : LD50 = 4750 mg/kg
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	ALPHA-PINENE X (CAS: 80-56-8) Oral route : LD50 = 3500 mg/kg
Skin corrosion / irritation	May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours. Repeated or 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 classifiable 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

12.1 Toxicity
Toxic to aquatic life with long lasting effects. The product must not be allowed to run into drains or waterways.
12.2 Persistence & degradability
No additional data available.
12.3 Bioaccumulation Potential
No additional data available.
12.4 Mobility in soil
No additional data available.
12.5 Results of PBT and vPvB Assessment
No additional data available.
12.6 Other adverse effects
No additional data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC. <u>Waste treatment methods</u> Do not pour into drains or waterways. <u>Waste</u>

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals. Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging

Empty container completely. Keep label(s) on container. Give to a certified disposal contractor.

14. TRANSPORT INFORMATION

14.1 UN number

UN No. Road	1266
UN No. SEA	1266
UN No. AIR	1266

14.2 UN proper shipping name

UN1266 = PERFUMERY PRODUCTS

14.3 Transport hazard class(es)

ADR/RID/ADN Class 3
 IMDG Class 3
 ICAO Class/Division 3

Transport Labels



14.4 Packing group

ADR/RID/ADN 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

Special precautions for user : Warning: Flammable liquids
 Danger code (Kemler): 30
 EMS Number: F-E, S-D.

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

ADR/RID

Class	Code	Pack Gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
3	F1	III	3	30	5L	163640E	E1	3	D/E

<u>IMDG</u>									
Class	2°Label	Pack Gr.	LQ	EMS	Provis.			EQ	
3	-	III	5L	F-E, S-D	163 223 904 955			E1	
<u>IATA</u>									
Class	2°Label	Pack Gr.	Passager	Passager	Cargo	Cargo	Note	EQ	
3	-	III	355	60L	366	220L	A3 A72	E1	
3	-	III	Y344	10L	-	-	A3 A72	E1	

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 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. H411 Toxic to aquatic life with long lasting effects.
Other Information	None.
Revision Date	July 25, 2016
Reason for revision	New format and updated SDS.
Rev No/Repl, SDS Generated	02, replaces version 01

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