



SAFETY DATA SHEET (SDS)

Prepared in accordance with the Globally Harmonized System (GHS) and Regulation (EC) No. 1907/2006 (REACH, as amended)

SECTION 1: Identification

Item	Details
Product Name	Green Hojari Frankincense Essential Oil
Alternative Names	Green Hojari Oil; Royal Hojari Frankincense Oil; Sacred Frankincense Oil; Omani Olibanum Oil
Botanical Name	<i>Boswellia sacra</i> Flueck.
Botanical Synonym	<i>Boswellia carterii</i> Birdw. may appear in commercial documentation
INCI Name	Boswellia Sacra Oil / Boswellia Carterii Oil
CAS Number	8016-36-2
EC Number	289-620-2
FEMA Number	2816
Plant Part	Green Hojari oleo-gum-resin
Extraction Method	Steam distillation or hydrodistillation
Country of Origin	Sultanate of Oman
Product Type	Natural essential oil / Natural Complex Substance
Recommended Use	Professional perfumery, fragrance compounds, cosmetics, incense compositions and related industrial applications
Uses Advised Against	Internal consumption as supplied, direct undiluted skin application, smoking, vaping and uncontrolled household use

Green Hojari is a premium resin grade obtained from *Boswellia sacra*, one of the principal frankincense species associated with Oman.

SUPPLIER DETAILS

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SECTION 2: HAZARD IDENTIFICATION



GHS / CLP CLASSIFICATION

The classification below is representative for undiluted frankincense essential oil. The original producer's batch-specific SDS must take precedence.

Hazard Class	Category	Hazard Statement
Flammable liquids	Category 3	H226: Flammable liquid and vapour
Aspiration hazard	Category 1	H304: May be fatal if swallowed and enters airways
Skin irritation	Category 2	H315: Causes skin irritation
Skin sensitisation	Category 1	H317: May cause an allergic skin reaction
Hazardous to the aquatic environment — chronic	Category 2	H411: Toxic to aquatic life with long-lasting effects

Published frankincense-oil safety documents commonly classify the oil as flammable, an aspiration hazard, a skin irritant or sensitiser, and hazardous to aquatic organisms.

SIGNAL WORD

DANGER

HAZARD PICTOGRAMS

- GHS02 — Flame
- GHS07 — Exclamation Mark
- GHS08 — Health Hazard
- GHS09 — Environment

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.
- H411: Toxic to aquatic life with long-lasting effects.

PRECAUTIONARY STATEMENTS

Prevention

- P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233: Keep container tightly closed.



- P240: Ground and bond container and receiving equipment during bulk transfer.
- P241: Use explosion-proof electrical and ventilation equipment where required.
- P242: Use non-sparking tools.
- P243: Take action to prevent static discharges.
- P261: Avoid breathing vapour, mist or spray.
- P264: Wash hands and exposed skin thoroughly after handling.
- P272: Contaminated work clothing should not be allowed out of the workplace.
- P273: Avoid release to the environment.
- P280: Wear protective gloves, protective clothing and eye or face protection.

Response

- P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE or physician.
- P331: Do not induce vomiting.
- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P333+P313: If skin irritation or rash occurs, obtain medical advice.
- P362+P364: Remove contaminated clothing and wash it before reuse.
- P303+P361+P353: IF ON SKIN OR HAIR: Remove immediately all contaminated clothing. Rinse skin with water.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses when present and easy to do. Continue rinsing.
- P370+P378: In case of fire, use carbon dioxide, dry chemical powder or alcohol-resistant foam.
- P391: Collect spillage.

Storage and Disposal

- P403+P235: Store in a well-ventilated place. Keep cool.
- P405: Store locked up.
- P501: Dispose of contents and container in accordance with applicable regulations.

OTHER HAZARDS

- Oxidation of naturally occurring terpene constituents may increase sensitisation potential.
- Concentrated vapour may cause headache, dizziness, nausea or respiratory discomfort.
- Empty containers may retain flammable vapour.
- Oil-contaminated absorbent material should be disposed of promptly.
- The oil is not intended for direct application to skin without appropriate dilution and safety assessment.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE

Component	CAS Number	EC Number	Concentration
<i>Boswellia sacra</i> essential oil	8016-36-2 / 89957-98-2	289-620-2	Approximately 100%

REPRESENTATIVE NATURALLY OCCURRING CONSTITUENTS

Constituent	CAS Number	Representative Status
Alpha-Pinene	80-56-8	Major or characteristic constituent
Alpha-Thujene	2867-05-2	Naturally occurring
Sabinene	3387-41-5	Naturally occurring
Beta-Pinene	127-91-3	Naturally occurring
Myrcene	123-35-3	Naturally occurring
Limonene	138-86-3	Naturally occurring
p-Cymene	99-87-6	Batch dependent
Camphene	79-92-5	Batch dependent
Verbenone	80-57-9	Trace or batch dependent
Terpinen-4-ol	562-74-3	Trace or batch dependent
Incensole-related compounds	Various	Usually minor in distilled oil
Other monoterpenes and oxygenated terpenes	Various	Balance

The chemical profile of *Boswellia sacra* oil varies significantly according to resin grade, geographical area, distillation temperature and duration. Alpha-pinene is frequently reported as an important constituent of Omani *Boswellia sacra* oil.

COMPOSITIONAL QUALIFICATION

Green Hojari Frankincense Essential Oil is a natural complex substance rather than a single chemical compound.

Its composition may vary according to:

- Resin grade and colour
- Tree location and growing conditions
- Resin harvest period
- Resin age and storage
- Distillation temperature
- Distillation duration
- Separation of early, middle and late distillation fractions



- Production batch

SECTION 4: FIRST-AID MEASURES

INHALATION

Move the affected person to fresh air.

Keep the person at rest in a position comfortable for breathing.

Obtain medical advice if headache, dizziness, nausea, coughing or respiratory discomfort persists.

SKIN CONTACT

Remove contaminated clothing.

Wash the affected area thoroughly with soap and plenty of water.

If redness, irritation, itching or rash develops, obtain medical advice.

Wash contaminated clothing before reuse.

EYE CONTACT

Rinse cautiously with clean water for at least 15 minutes.

Remove contact lenses when present and easy to do. Continue rinsing.

Obtain medical attention if irritation, pain, redness or visual discomfort persists.

INGESTION

Rinse the mouth.

Do not induce vomiting.

Immediately contact a poison centre or physician.

Keep the affected person at rest.

Aspiration into the lungs during swallowing or vomiting may cause severe chemical pneumonitis.



Never give anything by mouth to an unconscious person.

MOST IMPORTANT SYMPTOMS AND EFFECTS

Possible symptoms include:

- Skin irritation
- Allergic skin reaction
- Eye irritation
- Headache
- Dizziness
- Nausea
- Respiratory irritation
- Gastrointestinal discomfort
- Coughing or breathing difficulty following aspiration
- Chemical pneumonitis

ADVICE TO MEDICAL PERSONNEL

Treat symptomatically.

Because of the aspiration hazard, vomiting or gastric lavage should not be induced unless performed by qualified medical personnel with appropriate airway protection.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA

- Carbon dioxide
- Dry chemical powder
- Alcohol-resistant foam
- Fine water spray for cooling containers

UNSUITABLE EXTINGUISHING MEDIA

Do not use a direct high-pressure water jet because it may spread burning liquid.

SPECIFIC FIRE HAZARDS

The product is flammable.

Vapours may:



- Form flammable mixtures with air.
- Travel to an ignition source.
- Flash back.
- Accumulate in enclosed or low areas.

Combustion or thermal decomposition may produce:

- Carbon monoxide
- Carbon dioxide
- Smoke
- Soot
- Irritating organic vapours
- Unidentified decomposition products

PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and full protective clothing.

Cool fire-exposed containers using water spray.

Prevent contaminated fire-fighting water from entering drains, soil or waterways.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

- Eliminate flames, sparks and ignition sources.
- Ensure adequate ventilation.
- Keep unnecessary personnel away.
- Avoid breathing vapour, mist or spray.
- Avoid skin and eye contact.
- Wear protective gloves, clothing and eye protection.
- Use non-sparking tools.
- Prevent static discharge.

ENVIRONMENTAL PRECAUTIONS

Prevent entry into:

- Drains
- Sewers
- Surface water
- Groundwater



- Soil

Notify the appropriate authority if a significant quantity enters the environment.

CONTAINMENT AND CLEANING

Contain and absorb the spill using inert, non-combustible material such as:

- Sand
- Vermiculite
- Diatomaceous earth
- Universal oil absorbent

Transfer the absorbed material into a suitable labelled chemical-waste container.

Ventilate the affected area.

Clean contaminated surfaces using detergent and water while preventing wash water from entering drains.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING

- Use only in a well-ventilated area.
- Keep away from heat, sparks, flames and hot surfaces.
- Do not smoke while handling.
- Avoid breathing concentrated vapour, mist or aerosol.
- Avoid skin and eye contact.
- Wear chemical-resistant gloves and eye protection.
- Ground and bond containers during bulk transfer.
- Use non-sparking tools where appropriate.
- Prevent static electricity.
- Do not eat, drink or smoke in the work area.
- Wash hands thoroughly after handling.
- Keep containers tightly closed.
- Do not swallow or apply undiluted to skin.

STORAGE CONDITIONS

Store:

- In the original tightly closed container.



- In a cool, dry and well-ventilated location.
- Away from direct sunlight.
- Away from heat and ignition sources.
- Away from strong oxidising agents.
- Separately from food and beverages.
- Out of reach of children.

RECOMMENDED STORAGE TEMPERATURE

Store at approximately **10–25°C**, unless the producer specifies otherwise.

Minimise container headspace and prolonged exposure to oxygen.

SUITABLE CONTAINERS

- Amber glass for laboratory quantities
- Lacquered aluminium
- Compatible stainless steel
- Approved fluorinated containers

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

No occupational exposure limit has been established for the complete natural essential oil.

Applicable workplace exposure limits for individual constituents must be observed where required.

ENGINEERING CONTROLS

Provide adequate general ventilation.

Use local exhaust ventilation during bulk handling or where vapours, mist or aerosol may be generated.

Use equipment suitable for flammable vapours.

Ensure eyewash and emergency-washing facilities are available.

PERSONAL PROTECTIVE EQUIPMENT

Protection Type	Recommendation
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Eye and face protection	Chemical splash goggles; face shield for bulk transfer
Hand protection	Chemical-resistant nitrile gloves
Skin protection	Laboratory coat, long sleeves or chemical-resistant apron
Foot protection	Antistatic protective footwear for bulk handling
Respiratory protection	Approved organic-vapour respirator where ventilation is inadequate
Hygiene measures	Wash hands and exposed skin thoroughly after handling

ENVIRONMENTAL EXPOSURE CONTROLS

Prevent uncontrolled environmental release.

Use bunding or secondary containment for bulk storage.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Representative Information
Physical state	Mobile liquid
Appearance	Clear to slightly hazy
Colour	Colourless to pale yellow or pale greenish-yellow
Odour	Fresh, resinous, balsamic, citrus-terpenic, pine-like, mineral and slightly smoky
Odour threshold	Not determined
Melting/freezing point	Not determined
Boiling point/range	Not determined for the complete natural mixture
Flammability	Flammable liquid and vapour
Flash point	Approximately 42–51 °C; batch dependent
Representative flash point	Approximately 44 °C
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
pH	Not applicable
Relative density at 20 °C	Approximately 0.850–0.890
Refractive index at 20 °C	Approximately 1.4500–1.4800
Optical rotation	Batch dependent
Water solubility	Insoluble
Alcohol solubility	Soluble or dispersible
Vapour pressure	Not determined



Viscosity	Low-viscosity mobile liquid
Explosive properties	Not classified as explosive; vapours may form explosive mixtures with air
Oxidising properties	Not classified as oxidising

Published frankincense essential-oil SDS documents report flash points ranging from approximately 42 °C to 51 °C. The actual batch result must be used for final transport classification.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY

No hazardous reaction is expected under normal conditions of handling and storage.

CHEMICAL STABILITY

Stable when stored correctly.

The oil may oxidise or deteriorate following prolonged exposure to air, heat or light.

POSSIBILITY OF HAZARDOUS REACTIONS

Vapours may form flammable mixtures with air.

Hazardous polymerisation is not expected under recommended storage conditions.

CONDITIONS TO AVOID

- Excessive heat
- Direct sunlight
- Open flames
- Sparks
- Static discharge
- Prolonged exposure to air
- Temperatures above the verified batch flash point

INCOMPATIBLE MATERIALS

- Strong oxidising agents
- Strong acids
- Strong alkalis
- Reactive halogen compounds



HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or combustion may produce carbon monoxide, carbon dioxide, smoke, soot and irritating organic vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE

- Skin contact
- Eye contact
- Inhalation
- Accidental ingestion

ACUTE TOXICITY

Complete acute-toxicity data are not available for every Green Hojari Frankincense Essential Oil batch.

The material should be handled as a concentrated professional fragrance ingredient.

ASPIRATION HAZARD

May be fatal if swallowed and enters the airways.

Low-viscosity terpene constituents may enter the lungs during swallowing or vomiting and cause chemical pneumonitis.

SKIN CORROSION / IRRITATION

Causes skin irritation.

Prolonged or repeated exposure may cause redness, dryness, burning or inflammation.

SERIOUS EYE DAMAGE / IRRITATION

Direct contact may cause temporary irritation, redness, tearing and discomfort.

SKIN SENSITISATION

May cause an allergic skin reaction.

Potential sensitising constituents and oxidation products may include:



- Limonene
- Alpha-pinene
- Beta-pinene
- Terpene hydroperoxides

RESPIRATORY SENSITISATION

Not classified based on available information.

Concentrated vapour or aerosol may irritate the respiratory tract.

GERM-CELL MUTAGENICITY

Not classified based on available information for the complete natural substance.

CARCINOGENICITY

Not classified based on available information for the complete natural substance.

REPRODUCTIVE TOXICITY

Not classified based on available information.

SPECIFIC TARGET-ORGAN TOXICITY — SINGLE EXPOSURE

High vapour concentrations may cause:

- Headache
- Dizziness
- Nausea
- Respiratory irritation

SPECIFIC TARGET-ORGAN TOXICITY — REPEATED EXPOSURE

Insufficient data are available for classification.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY

Toxic to aquatic life with long-lasting effects.

Avoid release into the environment.



PERSISTENCE AND DEGRADABILITY

Complete biodegradation data are not available for the natural mixture.

Some terpene constituents may biodegrade, but concentrated discharge may still cause environmental harm.

BIOACCUMULATIVE POTENTIAL

Hydrophobic terpene constituents may have bioaccumulative potential.

MOBILITY IN SOIL

The oil is insoluble in water and may adsorb to soil and organic matter.

PBT AND vPvB ASSESSMENT

A complete PBT or vPvB assessment is not available for the natural complex substance.

ENDOCRINE-DISRUPTING PROPERTIES

No complete assessment is available.

OTHER ADVERSE EFFECTS

Do not release concentrated material into drains, waterways or soil.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of the material through an authorised chemical-waste contractor.

- Do not discharge into drains, sewers or waterways.
- Do not dispose of with ordinary household waste.
- Avoid contamination of soil and groundwater.
- Dispose of contaminated absorbent as hazardous chemical waste.
- Empty containers may retain flammable vapours and hazardous residue.
- Do not cut, weld, puncture or burn uncleaned containers.
- Recycle clean containers only through an authorised facility.
- Observe all applicable local and national waste regulations.

SECTION 14: TRANSPORT INFORMATION



The transport classification below is representative and must be confirmed using the actual batch flash point, composition, packaging and carrier requirements.

Transport Information	Representative Classification
UN Number	UN 1169
Proper Shipping Name	Extracts, Aromatic, Liquid
Transport Hazard Class	3
Packing Group	III
Environmental Hazard	Yes, where classified as environmentally hazardous
Marine Pollutant	Confirm from batch-specific classification
ADR/RID	UN1169, Extracts, Aromatic, Liquid, 3, III
IMDG	UN1169, Extracts, Aromatic, Liquid, 3, III
IATA/ICAO	UN1169, Extracts, Aromatic, Liquid, 3, III

ALTERNATIVE SHIPPING NAME

Depending on the carrier, national requirements and product use, the material may alternatively be assigned an appropriate flammable-liquid N.O.S. or flavouring-extract entry.

TRANSPORT QUALIFICATION

Final classification must be verified using:

- Actual batch flash point
- Batch hazard classification
- Package size
- Shipping mode
- Carrier requirements
- Current ADR, IMDG and IATA regulations
- Limited-quantity or excepted-quantity provisions

SECTION 15: REGULATORY INFORMATION

This Safety Data Sheet has been structured with reference to:

- Regulation (EC) No. 1907/2006 — REACH
- Regulation (EC) No. 1272/2008 — CLP
- Regulation (EU) 2020/878
- United Nations Globally Harmonized System
- Regulation (EC) No. 1223/2009 on cosmetic products



- Applicable ADR, RID, IMDG and IATA transport provisions

COSMETIC AND FRAGRANCE REQUIREMENTS

The finished-product manufacturer is responsible for:

- Reviewing the current IFRA Standards.
- Obtaining batch-specific GC–MS information.
- Assessing naturally occurring fragrance allergens.
- Calculating restricted constituent contributions.
- Assessing oxidised terpene sensitisation.
- Completing the cosmetic product safety assessment.
- Confirming final transport classification.
- Preparing legally compliant finished-product labelling.

EU FRAGRANCE ALLERGENS

The oil may naturally contain regulated fragrance allergens, including:

- Limonene
- Linalool
- Pinene-related constituents
- Other batch-dependent terpenes

Actual allergen concentrations must be established from the producer's batch-specific declaration or analytical report.

SECTION 16: OTHER INFORMATION

FULL 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.
- H411: Toxic to aquatic life with long-lasting effects.

DOCUMENT INFORMATION

Item	Details
Document Type	Material Safety Data Sheet / Safety Data Sheet
Product	Green Hojari Frankincense Essential Oil – Oman
Botanical Source	<i>Boswellia sacra</i> Flueck.



Primary CAS Number	8016-36-2
Alternative CAS Number	89957-98-2
EC Number	289-620-2
FEMA Number	2816
Issue Date	17 July 2026
Revision Number	01
Supersedes	New document
Intended Users	Professional, commercial and industrial users

NATURAL PRODUCT VARIABILITY

Green Hojari Frankincense Essential Oil is a Natural Complex Substance.

Its composition, colour, odour, allergen profile, physical properties, flash point and hazard classification may vary according to:

- Botanical authenticity
- Resin grade
- Harvest season
- Geographical location
- Resin storage
- Distillation method
- Distillation temperature and duration
- Distillation fraction
- Production batch

DISCLAIMER

The information in this Safety Data Sheet is based on available technical documentation and current knowledge of *Boswellia sacra* essential oil.

Batch-specific information, including:

- Producer SDS
- GC-MS composition
- Flash point
- Relative density
- Refractive index
- Allergen profile
- Hazard classification
- Transport declaration

must take precedence over representative information.



This document provides guidance for safe handling, storage, transport and professional use. It does not constitute a warranty of suitability for a particular application.

The user is responsible for determining product suitability, completing the required safety assessment and complying with all applicable laws and regulations.

This product is not intended for internal consumption and must be stored securely away from children.

Authorised by:

Fozia Khot
Director