



SAFETY DATA SHEET (SDS)

Prepared in accordance with Regulation (EC) No. 1907/2006, Regulation (EC) No. 1272/2008 and the Globally Harmonized System.

SECTION 1: Identification of the Substance and of the Company

1.1 Product identifier

Trade name: Green Hojari Frankincense Essential Oil

Botanical name: *Boswellia sacra* Flueck.

Alternative name: Olibanum Oman Oil

Article number: F1253

CAS number: 8016-36-2

EC number: 289-620-2

Additional CAS/EINECS reference: 89957-98-2

1.2 Relevant identified uses and uses advised against

Identified uses:

- Perfumery ingredient
- Flavouring agent
- Industrial applications

Uses advised against: Use only for the intended industrial or professional applications.

1.3 Details of the supplier

Aromology Trading LLC

G05 Al Ghazal Building

Nadd Al Hamar

Dubai, United Arab Emirates

Website: www.aromology.com

Email: info@aromology.com

SECTION 2: Hazards Identification

2.1 Classification of the substance

Classification according to Regulation (EC) No. 1272/2008:

- Flammable Liquid, Category 3: H226
- Acute Toxicity, Category 4: H302
- Aspiration Hazard, Category 1: H304
- Skin Irritation, Category 2: H315



- Skin Sensitisation, Category 1: H317
- Aquatic Chronic, Category 2: H411

2.2 Label elements

Signal word: Danger

Hazard pictograms:

- GHS02 – Flame
- GHS07 – Exclamation mark
- GHS08 – Health hazard
- GHS09 – Environment

Hazard statements:

- H226: Flammable liquid and 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.
- 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.
- P233: Keep container tightly closed.
- P240: Ground and bond container and receiving equipment.
- P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor.
- P403+P235: Store in a well-ventilated place. Keep cool.
- P501: Dispose of contents and container in accordance with applicable local, regional, national and international regulations.

2.3 Other hazards

PBT assessment: Not applicable.

vPvB assessment: Not applicable.

Endocrine-disrupting properties: None of the listed ingredients has been identified as having endocrine-disrupting properties.

SECTION 3: Composition and Information on Ingredients

3.1 Substance



Chemical identity: *Boswellia sacra* Flueck. essential oil

CAS number: 8016-36-2

EC number: 289-620-2

Hazardous constituents

Substance	CAS Number	EC Number	Concentration
Alpha-Pinene	80-56-8	201-291-9	50.001-100%
Beta-Pinene	127-91-3	204-872-5	1.001-5.000%
d-Limonene	5989-27-5	227-813-5	1.001-5.000%
p-Cymene	99-87-6	202-796-7	0.101-1.000%
Eucalyptol	470-82-6	207-431-5	0.101-1.000%
Beta-Caryophyllene	87-44-5	201-746-1	0.101-1.000%
Terpinolene	586-62-9	209-578-0	0.101-1.000%

Constituent classifications

Alpha-Pinene:

- Asp. Tox. 1 - H304
- Flam. Liq. 3 - H226
- Acute Tox. 4 - H302
- Skin Irrit. 2 - H315
- Skin Sens. 1B - H317

Beta-Pinene:

- Asp. Tox. 1 - H304
- Flam. Liq. 3 - H226
- Skin Irrit. 2 - H315
- Skin Sens. 1B - H317

d-Limonene:

- Asp. Tox. 1 - H304
- Flam. Liq. 3 - H226
- Skin Irrit. 2 - H315
- Skin Sens. 1B - H317
- Aquatic Acute 1 - H400, M-factor 1
- Aquatic Chronic 3 - H412

p-Cymene:

- Acute Tox. 3 - H331
- Asp. Tox. 1 - H304
- Flam. Liq. 3 - H226



- Aquatic Chronic 2 – H411

Eucalyptol:

- Flam. Liq. 3 – H226
- Skin Sens. 1B – H317

Beta-Caryophyllene:

- Asp. Tox. 1 – H304
- Skin Sens. 1B – H317

Terpinolene:

- Asp. Tox. 1 – H304
- Skin Sens. 1B – H317
- Aquatic Acute 1 – H400, M-factor 1
- Aquatic Chronic 1 – H410, M-factor 1

SECTION 4: First-Aid Measures**4.1 Description of first-aid measures****General information:**

Symptoms of poisoning may occur several hours after exposure. Medical observation for at least 48 hours after an accident may therefore be necessary. Seek immediate medical advice.

After inhalation:

Move the affected person to fresh air. Keep the person at rest and obtain medical advice.

After skin contact:

Immediately wash the affected area thoroughly with soap and water. Remove contaminated clothing. If irritation persists, consult a doctor.

After eye contact:

Rinse cautiously with clean running water for several minutes, holding the eyelids open. Remove contact lenses where possible. If symptoms persist, consult a doctor.

After ingestion:

Call a doctor or poison centre immediately. Do not induce vomiting because of the aspiration hazard.

4.2 Most important symptoms and effects

No further relevant information is available. Delayed symptoms may occur.

4.3 Immediate medical attention and special treatment

No further relevant information is available. Treat symptomatically.



SECTION 5: Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing media:

- Carbon dioxide
- Dry extinguishing powder
- Sand
- Extinguishing methods appropriate to the surrounding fire

Unsuitable extinguishing media:

Do not use a full water jet.

5.2 Special hazards arising from the substance

Heating or fire may produce toxic gases or hazardous combustion products.

5.3 Advice for firefighters

Do not inhale explosion or combustion gases. Wear suitable respiratory and protective equipment. Cool endangered containers with water spray.

SECTION 6: Accidental Release Measures

6.1 Personal precautions and protective equipment

- Wear appropriate protective equipment.
- Keep unprotected persons away.
- Ensure adequate ventilation.
- Keep away from ignition sources.

6.2 Environmental precautions

Do not allow the material to enter drains, sewage systems, soil or watercourses. Inform the relevant authorities if the product enters a watercourse or sewage system.

6.3 Containment and cleaning methods

Absorb the spill with a suitable inert absorbent material. Collect it in an appropriate waste container.

Dispose of contaminated material in accordance with Section 13. Ensure adequate ventilation.

6.4 Reference to other sections

- See Section 7 for safe handling.
- See Section 8 for personal protective equipment.
- See Section 13 for disposal information.

SECTION 7: Handling and Storage



7.1 Precautions for safe handling

- Keep containers tightly sealed.
- Keep away from heat and direct sunlight.
- Ensure good workplace ventilation or local exhaust.
- Handle carefully.
- Avoid jolting, friction and impact.
- Keep away from ignition sources.
- Do not smoke.
- Protect against electrostatic discharge.

7.2 Conditions for safe storage

- Store only in the original container.
- Prevent seepage into the ground.
- Use only containers specifically permitted for this substance.
- Keep the container tightly closed.
- Protect from heat and direct sunlight.
- Store in a cool, dry and well-ventilated area.

No special requirements concerning storage with other products were identified in the source documentation.

7.3 Specific end uses

No further relevant information is available.

SECTION 8: Exposure Controls and Personal Protection

8.1 Control parameters

No ingredients requiring workplace exposure monitoring were identified in the source documentation.

The occupational exposure lists valid when the source SDS was prepared were used as the basis for the assessment.

8.2 Exposure controls

General protective and hygiene measures:

- Follow the usual precautions for handling chemicals.
- Keep away from food, beverages and animal feed.
- Immediately remove contaminated clothing.
- Wash hands before breaks and after work.
- Avoid contact with the skin.

Respiratory protection:

Use suitable respiratory protection if ventilation is insufficient.

**Hand protection:**

Wear protective gloves that are impermeable and resistant to the product.

The suitability of gloves depends on the glove material, quality, diffusion rate, degradation and breakthrough time. The exact breakthrough time must be obtained from the glove manufacturer and observed.

Eye and face protection:

Wear safety glasses.

Body protection:

- Impervious protective clothing
- Protective boots

SECTION 9: Physical and Chemical Properties**9.1 Basic physical and chemical properties**

Property	Result
Physical state	Liquid
Appearance/form	Fluid
Colour	Light yellow
Odour	Terpenic
Odour threshold	Not determined
Boiling point/range	Not determined
Flammability	Not determined
Lower explosion limit	Not determined
Upper explosion limit	Not determined
Flash point	35.0 °C, NFT 60-103 closed cup
Decomposition temperature	Not determined
pH	Not determined
Kinematic viscosity	Not determined
Dynamic viscosity	Not determined
Solubility in water	Not determined
Partition coefficient, n-octanol/water	Not determined
Vapour pressure	Not determined
Density	Not determined
Relative density	0.8650–0.8800 at D20/20
Vapour density	Not determined
Auto-ignition temperature	Not determined
Explosive properties	Not determined



Property	Result
Solids content	0.00%
Evaporation rate	Not determined

9.2 Other information

No further relevant information is available.

Physical hazard classes

Hazard class	Applicability
Explosives	Not applicable
Flammable gases	Not applicable
Aerosols	Not applicable
Oxidising gases	Not applicable
Gases under pressure	Not applicable
Flammable liquids	Flammable liquid and vapour
Flammable solids	Not applicable
Self-reactive substances and mixtures	Not applicable
Pyrophoric liquids	Not applicable
Pyrophoric solids	Not applicable
Self-heating substances and mixtures	Not applicable
Substances emitting flammable gases in contact with water	Not applicable
Oxidising liquids	Not applicable
Oxidising solids	Not applicable
Organic peroxides	Not applicable
Corrosive to metals	Not applicable
Desensitised explosives	Not applicable

SECTION 10: Stability and Reactivity

10.1 Reactivity

No further relevant information is available.

10.2 Chemical stability

Stable under recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions are known under normal conditions of use.

10.4 Conditions to avoid

Avoid heat, flames, sparks, direct sunlight and other ignition sources.

10.5 Incompatible materials

No further relevant information is available.



10.6 Hazardous decomposition products

Not determined. Toxic gases may be generated during heating or combustion.

SECTION 11: Toxicological Information

11.1 Hazard classes under Regulation (EC) No. 1272/2008

Acute toxicity:

Harmful if swallowed.

Toxicological values

Substance	Test	Result
d-Limonene	Oral LD50, rat	4,400 mg/kg
Eucalyptol	Oral LD50, mouse	3,849 mg/kg
Beta-Caryophyllene	Oral LD50, rat	>5,000 mg/kg

Skin corrosion/irritation:

Irritating to the skin and mucous membranes. Causes skin irritation.

Serious eye damage/irritation:

No irritating effect was reported.

Respiratory or skin sensitisation:

Skin sensitisation is possible.

Germ-cell mutagenicity:

- Eucalyptol: OECD 471 Ames test – Negative, in vitro.
- Beta-Caryophyllene: OECD 471 Ames test – Negative, in vitro.

Carcinogenicity: Not determined.

Reproductive toxicity: Not determined.

Specific target organ toxicity, single exposure: Not determined.

Specific target organ toxicity, repeated exposure: Not determined.

Aspiration hazard: May be fatal if swallowed and enters airways.

Subacute to chronic toxicity: Not determined.

11.2 Other hazards

Endocrine-disrupting properties: None of the listed ingredients has been identified as an endocrine disruptor.

SECTION 12: Ecological Information

12.1 Toxicity



The material is toxic to aquatic organisms.

Substance	Test	Result
d-Limonene	Fish LD50, OECD 203	0.71 mg/L
p-Cymene	Fish LD50, OECD 203	1.63 mg/L

12.2 Persistence and degradability

No further relevant information is available.

Behaviour in environmental systems: Not determined.

12.3 Bioaccumulative potential

No further relevant information is available.

12.4 Mobility in soil

No further relevant information is available.

12.5 PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine-disrupting properties

The product does not contain substances identified as having endocrine-disrupting properties.

12.7 Other adverse effects

Ecotoxic effects: Not determined.

Additional environmental information:

- Toxic to fish.
- Toxic to aquatic organisms.
- Even extremely small quantities entering the ground may present a danger to drinking water.
- The material is harmful to the environment.
- Avoid release into the environment.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods



The product must be specially treated and disposed of in accordance with applicable official regulations.

Do not discharge into drains, watercourses or the environment.

Contaminated packaging:

Dispose of contaminated or uncleaned packaging in accordance with applicable local, regional and national regulations.

SECTION 14: Transport Information

14.1 UN number

ADR: UN 1993
IMDG: UN 1993
IATA: UN 1993

14.2 UN proper shipping name

ADR: UN 1993 FLAMMABLE LIQUID, N.O.S. (*BOSWELLIA SACRA*)
IMDG: FLAMMABLE LIQUID, N.O.S. (*BOSWELLIA SACRA*)
IATA: FLAMMABLE LIQUID, N.O.S. (*BOSWELLIA SACRA*)

14.3 Transport hazard class

Transport mode	Class	Label
ADR	3 (F1), Flammable liquids	3
IMDG	3, Flammable liquids	3
IATA	3, Flammable liquids	3

14.4 Packing group

ADR: III
IMDG: III
IATA: III

14.5 Environmental hazards

Marine pollutant: Yes
Danger code/Kemler number: 30
Emergency schedule/EmS: F-E, S-E

14.6 Special precautions

Warning: Flammable liquid.

14.7 Maritime transport in bulk according to IMO instruments



Not applicable.

Additional transport information

ADR:

- Excepted quantities: E1
- Limited quantities: 5 L
- Transport category: 3
- Tunnel restriction code: D/E

IMDG:

- Limited quantities: 5 L
- Excepted quantities: E1

UN Model Regulation:

UN 1993 FLAMMABLE LIQUID, N.O.S. (*BOSWELLIA SACRA*), Class 3, Packing Group III, ENVIRONMENTALLY HAZARDOUS.

SECTION 15: Regulatory Information

15.1 Applicable safety, health and environmental legislation

PFAS: None of the ingredients is listed.

Directive 2011/65/EU, Annex II: None of the ingredients is listed.

Regulation (EU) 2019/1148:

- Annex I – Restricted explosives precursors: None of the ingredients is listed.
- Annex II – Reportable explosives precursors: None of the ingredients is listed.

Regulation (EC) No. 273/2004 on drug precursors:
None of the ingredients is listed.

Regulation (EC) No. 111/2005 concerning trade in drug precursors between the Community and third countries:
None of the ingredients is listed.

National regulations

Technical instructions – Air:

Class	Share
I	0.03%

**Water hazard classification:**

Water Hazard Class 3, self-assessment: extremely hazardous to water.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other Information

The information contained in this Safety Data Sheet is based on the state of knowledge available on the indicated issue date.

This information describes the safety requirements of the product. It must not be regarded as a warranty, quality specification or contractual guarantee concerning the product's properties or areas of application.

The information relates specifically to the material identified in this document. It may not be valid when the material is used in combination with another product or in another process unless expressly stated.

This Safety Data Sheet has been prepared in accordance with applicable EU regulatory requirements. It does not exempt the user from understanding and complying with all applicable national and local regulations.

Relevant hazard statements

- H226: Flammable liquid and 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.
- H331: Toxic if inhaled.
- 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.

Training advice

Personnel handling this product should receive appropriate occupational-risk prevention and chemical-safety training to facilitate the correct interpretation of this Safety Data Sheet and the product label.

Abbreviations

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road



- CAS: Chemical Abstracts Service
- DOT: United States Department of Transportation
- EC: European Community
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- IATA: International Air Transport Association
- ICAO: International Civil Aviation Organization
- IFRA: International Fragrance Association
- IMDG: International Maritime Dangerous Goods Code
- IOFI: International Organization of the Flavor Industry
- LC50: Median lethal concentration
- LD50: Median lethal dose
- PBT: Persistent, Bioaccumulative and Toxic
- RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
- vPvB: Very Persistent and Very Bioaccumulative

Information sources

- IFRA/IOFI Labelling Manual
- REACH registration dossier
- Supplier information

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