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	Gurjun Balsam Essential Oil
Alternative Names	Gurjun Oil; Gurjum Balsam Oil; East Indian Copaiba Balsam Oil
Botanical Source	*Dipterocarpus turbinatus* C.F.Gaertn. / *Dipterocarpus* spp.
INCI Name	Dipterocarpus Turbinatus Balsam Oil
Primary CAS Number	8030-55-5
EC Number	232-444-8
Product Type	Natural essential oil / UVCB substance
Plant Material	Oleoresin or balsamic exudate
Extraction Method	Steam distillation
Recommended Use	Professional perfumery, fragrance and cosmetic formulation
Uses Advised Against	Internal consumption, vaping, smoking and undiluted skin application

The material is commercially treated as a natural UVCB essential oil derived from *Dipterocarpus turbinatus*. Published supplier SDS documents identify CAS 8030-55-5, alternative CAS 93165-18-5 and EC 232-444-8.

Supplier Details

Aromology Trading LLC
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SECTION 2: HAZARD IDENTIFICATION

Representative GHS Classification

- Aspiration Hazard, Category 1
- Skin Irritation, Category 2

- Eye Irritation, Category 2
- Skin Sensitisation, Category 1

The exact classification can vary with the chemotype and constituent profile. One published EU SDS classifies the complete material primarily for aspiration hazard, while another supplier SDS also classifies it for skin irritation, eye irritation and skin sensitisation.

Signal Word

DANGER

Hazard Statements

- 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.

Precautionary Statements

- Avoid breathing vapour, mist or aerosol.
- Avoid contact with skin and eyes.
- Wear protective gloves and eye protection.
- Wash thoroughly after handling.
- Do not eat, drink or smoke while using this product.
- If swallowed, immediately contact a poison centre or physician.
- Do not induce vomiting.
- If skin irritation or rash occurs, obtain medical advice.
- Store locked up and away from children.
- Avoid uncontrolled release into the environment.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	Representative Concentration
Gurjun Balsam Essential Oil	8030-55-5	Approximately 100%
Alpha-Copaene	3856-25-5	Chemotype and batch dependent
Alpha-Gurjunene	489-40-7	Chemotype and batch dependent
Beta-Caryophyllene	87-44-5	Commonly present
Alpha-Humulene	6753-98-6	Low to moderate level
Beta-Gurjunene	17334-55-3	Batch dependent
Gamma-Gurjunene	22567-17-5	Batch dependent

Component	CAS Number	Representative Concentration
Aromadendrene	489-39-4	Batch dependent
Other Natural Sesquiterpenes	Various	Balance

Published SDS data identify beta-caryophyllene as a hazardous natural constituent and show that the oil's profile may vary significantly between Gurjunene- and Copaene-rich batches.

SECTION 4: FIRST-AID MEASURES

Inhalation

Move the affected person to fresh air and keep at rest. Obtain medical advice if coughing, dizziness, headache or respiratory discomfort persists.

Skin Contact

Remove contaminated clothing. Wash thoroughly with soap and plenty of water. Seek medical advice if irritation, redness or an allergic reaction develops.

Eye Contact

Rinse cautiously with clean water for at least 15 minutes. Remove contact lenses where easy to do. Continue rinsing and obtain medical attention if irritation persists.

Ingestion

Do not induce vomiting. Rinse the mouth carefully and immediately contact a physician or poison centre because aspiration into the lungs may cause serious injury.

Important Symptoms

Possible symptoms include:

- Skin irritation or sensitisation.
- Eye redness, watering or discomfort.
- Headache, nausea or dizziness after excessive vapour exposure.
- Chemical pneumonitis if aspirated.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use:

- Carbon dioxide.
- Dry chemical powder.
- Alcohol-resistant foam.
- Water fog for cooling surrounding containers.

Unsuitable Extinguishing Media

Do not use a direct high-pressure water jet.

Specific Hazards

Combustion may generate:

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

Protective Equipment

Firefighters should wear suitable protective clothing and self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions

- Ensure adequate ventilation.
- Remove ignition sources.
- Wear gloves and eye protection.
- Avoid breathing vapours or mist.
- Prevent contact with skin and eyes.

Environmental Precautions

Prevent entry into:

- Drains.
- Sewers.
- Soil.

- Surface water.
- Groundwater.

Clean-Up Method

Absorb with sand, earth, vermiculite, diatomaceous earth or another inert absorbent. Transfer into an appropriate labelled waste container.

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

SECTION 7: HANDLING AND STORAGE

Safe Handling

- Use in adequately ventilated areas.
- Avoid skin and eye contact.
- Do not breathe vapour, aerosol or heated fumes.
- Keep away from food, beverages and animal feed.
- Wear suitable personal protective equipment.
- Wash hands thoroughly after use.
- Keep containers closed when not in use.

Storage Conditions

Store:

- In the original tightly closed container.
- In a cool, dry and well-ventilated location.
- Protected from direct sunlight and excessive heat.
- Away from sparks, flames and ignition sources.
- Away from strong oxidising agents.
- With minimal container headspace.
- Out of reach of children.

Recommended Storage Temperature

Approximately **10–25 °C, unless ot**herwise specified by the original manufacturer.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits

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

Engineering Controls

Provide adequate general ventilation. Use local exhaust ventilation where aerosols, vapours or heated material may be generated.

Personal Protective Equipment

Protection Type	Recommendation
Eye Protection	Chemical safety glasses or goggles
Hand Protection	Nitrile or chemical-resistant gloves
Skin Protection	Protective clothing or laboratory coat
Respiratory Protection	Normally unnecessary with adequate ventilation; use suitable protection where ventilation is insufficient
Hygiene Measures	Wash hands and exposed skin after handling

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Representative Information
Physical State	Mobile to slightly viscous liquid
Colour	Pale amber to dark amber-brown
Odour	Warm, woody, balsamic, resinous, earthy and mildly smoky
pH	Not applicable
Relative Density at 20°C	Approximately 0.942–0.960
Refractive Index at 20°C	Approximately 1.501–1.516
Flash Point	Batch dependent; verify producer data
Boiling Point	Not established for the complete natural mixture
Water Solubility	Insoluble
Alcohol Solubility	Soluble or dispersible
Vapour Pressure	Not determined
Auto-Ignition Temperature	Not determined
Explosive Properties	Not expected under normal conditions
Oxidising Properties	Not classified as oxidising

Published physical specifications report density around 0.942–0.960 and refractive index around 1.501–1.516, but actual values vary by batch and chemotype.

SECTION 10: STABILITY AND REACTIVITY

Reactivity

No dangerous reaction is expected under normal handling and storage conditions.

Chemical Stability

Stable when stored tightly closed under recommended conditions.

Conditions to Avoid

Avoid:

- Excessive heat.
- Direct sunlight.
- Open flames and sparks.
- Prolonged exposure to air.
- Unsuitable storage temperatures.

Incompatible Materials

Strong oxidising agents, strong acids and highly reactive chemicals.

Hazardous Decomposition Products

Thermal decomposition may produce carbon monoxide, carbon dioxide, smoke 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 production batch.

Skin Effects

May cause irritation. Repeated or prolonged exposure may cause allergic contact dermatitis in susceptible individuals.

Eye Effects

Direct contact may cause serious temporary irritation, redness, watering and discomfort.

Aspiration Hazard

May be fatal if swallowed and subsequently enters the respiratory tract.

Respiratory Effects

Excessive exposure to vapours, mist or heated material may cause irritation, headache, nausea or dizziness.

Chronic Effects

No definitive conclusion should be drawn for the complete natural material without batch-specific toxicological data.

SECTION 12: ECOLOGICAL INFORMATION

- Avoid uncontrolled release into the environment.
- Natural hydrophobic sesquiterpenes may adsorb to soil and sediment.
- Complete biodegradation and bioaccumulation data are not available for the complete substance.
- Do not discharge concentrated material into drains, waterways or soil.

Environmental classification should be confirmed from the producer's current batch SDS.

SECTION 13: DISPOSAL CONSIDERATIONS

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

Do not:

- Discharge into drains.
- Dispose into waterways or soil.
- Mix with ordinary household waste.
- Reuse contaminated containers for food or beverages.

Empty containers may retain hazardous residues.

SECTION 14: TRANSPORT INFORMATION

Transport classification varies between supplier SDS documents and may depend on flash point, composition, environmental classification and local transport rules.

Transport Item	Representative Position
UN Number	Verify using current batch SDS
Proper Shipping Name	Verify using current batch SDS
Transport Hazard Class	Batch dependent
Packing Group	Batch dependent
Marine Pollutant	Batch dependent
Special Precautions	Keep upright, tightly closed and protected from heat

One supplier SDS lists Class 3, Packing Group III and marine-pollutant treatment, but this must not be applied universally without confirming the actual batch flash point and transport declaration.

SECTION 15: REGULATORY INFORMATION

Prepared 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 occupational, environmental and transport regulations.

The finished-product manufacturer remains responsible for assessing:

- IFRA requirements.
- EU fragrance allergens.
- Restricted constituents.
- Final use concentration.
- Intended consumer exposure.
- Cosmetic or product-safety compliance.

SECTION 16: OTHER INFORMATION

Hazard Statement Definitions

- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
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Document Information

Item	Details
Issue Date	17 July 2026
Revision Number	01
Document Type	Summary Material Safety Data Sheet
Intended Users	Professional and industrial users

Disclaimer

This MSDS provides representative safety information for Gurjun Balsam Essential Oil.

The natural composition and hazard classification may vary according to botanical species, chemotype, geographical origin, distillation method and production batch. The original manufacturer's current batch-specific SDS, analytical data, flash point and transport declaration shall take precedence.

This product is intended for professional perfumery and fragrance formulation. It is not intended for internal consumption and must be stored away from children.

Authorised by:
Fozia Khot
Director