



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

1.1 Product identification

Product Name: Gurjun Balsam Dark
Supplier Product Name: Gurjun Balsam Res
Botanical Source: Dipterocarpus spp.
Probable Botanical Species: Dipterocarpus turbinatus C.F.Gaertn.
INCI Name: Dipterocarpus Turbinatus Balsam Oil
CAS Number: 8030-55-5
EC Number: 232-444-8
Product IPC: GB-003
Material Type: Natural oleoresin/balsam oil
Plant Part: Gum and resin
Country of Origin: Indonesia
Process Description: Tree exudate harvested and collected by heating the tree trunk
Recommended Use: Fragrance and cosmetic raw material

1.2 Identified uses

- Fine fragrance and perfumery
- Woody and balsamic fragrance accords
- Cosmetic fragrance
- Soap and personal-care fragrance
- Incense and home-fragrance compositions

Uses Advised Against: Internal consumption and undiluted application to the skin.

1.3 Supplier

Aromology

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SECTION 2: HAZARD IDENTIFICATION

2.1 Classification

- Aspiration Hazard, Category 1



- Skin Sensitisation, Category 1
- Hazardous to the Aquatic Environment, Acute Category 1
- Hazardous to the Aquatic Environment, Chronic Category 1

2.2 Label elements

Signal Word: DANGER

Hazard Pictograms:

- GHS07 – Exclamation Mark
- GHS08 – Health Hazard
- GHS09 – Environment

Hazard Statements:

- H304: May be fatal if swallowed and enters airways.
- H317: May cause an allergic skin reaction.
- H400: Very toxic to aquatic life.
- H410: Very toxic to aquatic life with long-lasting effects.

Precautionary Statements:

- P261: Avoid breathing vapour, mist or spray.
- P272: Contaminated work clothing should not be allowed out of the workplace.
- P273: Avoid release to the environment.
- P280: Wear protective gloves and eye/face protection.
- P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor.
- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P331: Do NOT induce vomiting.
- P333+P313: If skin irritation or rash occurs, obtain medical advice.
- P362+P364: Remove contaminated clothing and wash it before reuse.
- P391: Collect spillage.
- P405: Store locked up.
- P501: Dispose of contents and container through an approved waste-disposal facility.

2.3 Other hazards

The material contains naturally occurring Beta-Caryophyllene, which may oxidise following prolonged exposure to air. Oxidised material may have increased sensitising potential.

Spilled material may produce slippery surfaces.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS



Substance: Gurjun Balsam Dark – Gurjunene Type

CAS Number: 8030-55-5

Concentration: 100%

Batch compositional profile

Component	CAS Number	Molecular Class	Assay
Alpha-Gurjunene	489-40-7	Sesquiterpene	64.90%
Beta-Gurjunene	17334-55-3	Sesquiterpene	17.28%
Alloaromadendrene	25246-27-9	Sesquiterpene	5.20%
Beta-Caryophyllene	87-44-5	Sesquiterpene	2.51%
Alpha-Copaene	3856-25-5	Sesquiterpene	0.39%
Other natural constituents	Not individually assigned	Natural balsam constituents	Balance

Combined Gurjunene Content: 82.18%

SECTION 4: FIRST-AID MEASURES

Inhalation: Move the affected person to fresh air. Keep at rest. Obtain medical advice if symptoms persist.

Skin Contact: Remove contaminated clothing. Wash thoroughly with soap and water. Obtain medical advice if irritation or an allergic reaction occurs.

Eye Contact: Rinse cautiously with clean water for at least 15 minutes. Remove contact lenses when easy to do. Obtain medical advice if irritation persists.

Ingestion: Immediately contact a poison centre or doctor. Do not induce vomiting. Rinse the mouth.

Important Symptoms: Allergic skin reaction and chemical pneumonitis if swallowed and aspirated into the lungs.

SECTION 5: FIREFIGHTING MEASURES

Suitable Extinguishing Media:

- Carbon dioxide
- Dry chemical powder
- Alcohol-resistant foam
- Water fog

Unsuitable Media: Do not use a direct water jet.



Combustion may produce carbon monoxide, carbon dioxide, smoke and unidentified irritating organic compounds.

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

Ensure adequate ventilation. Avoid breathing vapour and avoid contact with skin and eyes.

Prevent release into drains, surface water, groundwater and soil.

Contain the spill with sand, earth, vermiculite or another inert absorbent. Transfer into a suitable labelled waste container.

SECTION 7: HANDLING AND STORAGE

Use in a well-ventilated area. Avoid skin and eye contact. Wear suitable protective equipment.

Store in tightly closed and preferably full containers in a cool, dry and ventilated place.

Protect from:

- Direct sunlight
- Excessive heat
- Prolonged air exposure
- Moisture
- Strong acids
- Strong alkalis
- Oxidising agents

Recommended Storage Temperature: Below 25 °C.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: None established for the complete natural material.

Eye Protection: Chemical safety glasses or goggles.

Hand Protection: Chemical-resistant nitrile gloves.

Skin Protection: Suitable protective clothing.

Respiratory Protection: Normally unnecessary with adequate ventilation. Use an organic-vapour respirator where ventilation is insufficient.



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification/Result
Physical State	Liquid/natural oleoresin
Appearance	Red to dark brown
Odour	Characteristic woody, balsamic, earthy and resinous
Refractive Index at 20 °C	1.5020–1.5140
Batch Refractive Index	1.5115
Specific Gravity at 25 °C	0.9390–0.9600
Batch Specific Gravity	0.9526
Optical Rotation at 25 °C	–145° to –50°
Batch Optical Rotation	–74.11°
Acid Value	2.00–8.00 mg KOH/g
Batch Acid Value	3.33 mg KOH/g
Flash Point	Greater than approximately 93 °C
Water Solubility	Insoluble
Alcohol Solubility	Soluble
pH	Not applicable
Vapour Pressure	Not determined
Oxidising Properties	None expected

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No hazardous reaction expected under normal conditions.

Chemical Stability: Stable under recommended storage conditions.

Conditions to Avoid: Heat, flames, direct sunlight and prolonged exposure to air.

Incompatible Materials: Strong acids, strong alkalis and oxidising agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide and unidentified organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

Endpoint	Assessment
Acute Toxicity	Classification criteria not met based on available information
Skin Irritation	May cause irritation following prolonged contact



Endpoint	Assessment
Eye Irritation	May cause temporary irritation
Skin Sensitisation	May cause an allergic skin reaction
Mutagenicity	Classification criteria not met
Carcinogenicity	Classification criteria not met
Reproductive Toxicity	Classification criteria not met
STOT – Single Exposure	Classification criteria not met
STOT – Repeated Exposure	Classification criteria not met
Aspiration Hazard	May be fatal if swallowed and enters airways

SECTION 12: ECOLOGICAL INFORMATION

Very toxic to aquatic life with long-lasting effects.

Complete information concerning persistence, biodegradability, bioaccumulation and soil mobility is unavailable.

Avoid uncontrolled release into the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of the material through an authorised waste-disposal contractor. Do not discharge into drains or waterways.

Empty containers may retain hazardous residues and should be professionally cleaned, recycled or disposed of through an approved facility.

SECTION 14: TRANSPORT INFORMATION

Transport Information	Classification
UN Number	UN 3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical Name	Gurjun Balsam Oil/Beta-Caryophyllene
Hazard Class	9
Packing Group	III
Environmental Hazard	Yes
Marine Pollutant	Yes
ADR/RID	UN 3082, Class 9, Packing Group III
IMDG	UN 3082, Class 9, Packing Group III, Marine Pollutant



Transport Information	Classification
IATA	UN 3082, Class 9, Packing Group III

SECTION 15: REGULATORY INFORMATION

The material should be handled in accordance with:

- Regulation (EC) No. 1907/2006 – REACH
- Regulation (EC) No. 1272/2008 – CLP
- Regulation (EC) No. 1223/2009 – EU Cosmetic Regulation
- Regulation (EU) 2023/1545
- IFRA Standards through the 51st Amendment
- Applicable UAE chemical, safety and environmental regulations

SECTION 16: OTHER INFORMATION

Hazard Statements:

- H304: May be fatal if swallowed and enters airways.
- H317: May cause an allergic skin reaction.
- H400: Very toxic to aquatic life.
- H410: Very toxic to aquatic life with long-lasting effects.

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Document Status: APPROVED

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