

Material Safety Data Sheet (MSDS)

Product Name: Malkangni Oil Natural Grade

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Supplier:

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1. Identification of the Substance and Company

Product Name: Malkangni Oil Natural Grade

Botanical Name: *Celastrus paniculatus* Seed Oil

Common Name: Malkangni Oil, Jyotishmati Oil, Intellect Tree Seed Oil

CAS Number: Not specifically assigned

Product Type: Natural Vegetable Oil / Herbal Oil

Recommended Use:

Used in herbal formulations, Ayurvedic preparations, nutraceutical products, cosmetic formulations, massage oils, personal care products, and research applications.

2. Hazard Identification

GHS Classification: Malkangni Oil Natural Grade is generally not classified as hazardous under normal handling conditions. As a natural plant oil, it should be handled with good industrial hygiene practices.

Potential Health Effects:

Inhalation: Oil mist or vapor generated during heating may cause mild respiratory irritation.

Skin Contact: Prolonged or repeated contact may cause mild irritation in sensitive individuals.

Eye Contact: Direct contact may cause temporary redness, watering, or mild irritation.

Ingestion: Not expected to present significant hazards when used as intended. Large quantities may cause nausea or gastrointestinal discomfort.

Environmental Hazards: Avoid uncontrolled release into drains, soil, or natural water bodies.

Precautionary Statements:

- Avoid contact with eyes.
- Avoid prolonged skin contact.
- Avoid inhalation of heated oil mist.
- Keep container tightly closed.
- Store away from excessive heat and direct sunlight.
- Wash hands after handling.

3. Composition / Information on Ingredients

Malkangni Oil Natural Grade is a natural fixed oil extracted from the seeds of *Celastrus paniculatus*.

The oil primarily contains naturally occurring triglycerides and fatty acids, together with naturally occurring bioactive constituents including alkaloids, sesquiterpenes, sterols, and other minor plant-derived compounds. The exact composition varies depending on geographical origin, cultivation practices, extraction process, and refining method.

No hazardous additives are intentionally incorporated unless specifically stated in the product specification.

4. First Aid Measures

Inhalation: Move the affected person to fresh air. If respiratory irritation persists, obtain medical attention.

Skin Contact: Wash thoroughly with soap and water. Remove contaminated clothing.

Eye Contact: Immediately rinse with clean water for at least 15 minutes. Remove contact lenses if present. Seek medical advice if irritation continues.

Ingestion: Rinse mouth thoroughly with water. Do not induce vomiting unless directed by medical personnel. Obtain medical advice if large quantities have been swallowed or symptoms occur.

Most Important Symptoms:

- Mild eye irritation
- Mild skin irritation
- Temporary respiratory irritation from oil mist
- Gastrointestinal discomfort after excessive ingestion

5. Fire Fighting Measures

Suitable Extinguishing Media: Dry chemical powder, Carbon dioxide (CO₂), Alcohol-resistant foam, Water spray for cooling containers.

Unsuitable Extinguishing Media: Do not use a direct high-pressure water jet on burning oil.

Fire Hazards: Combustible vegetable oil. Heating may generate combustible vapors.

Hazardous Combustion Products: Carbon monoxide, Carbon dioxide, Dense smoke, Irritating organic vapors.

Protective Equipment: Wear self-contained breathing apparatus (SCBA) and full protective clothing.

6. Accidental Release Measures

Personal Precautions:

- Prevent slipping caused by spilled oil.
- Wear suitable gloves and eye protection.
- Ensure adequate ventilation.
- Remove ignition sources if present.

Environmental Precautions: Prevent entry into drains, sewers, rivers, lakes, and groundwater.

Cleanup Methods: Absorb the spill using sand, earth, vermiculite, or another inert absorbent. Transfer collected material into suitable closed containers for disposal.

Clean the affected surface thoroughly to eliminate slip hazards.

7. Handling and Storage

Handling

- Avoid unnecessary skin and eye contact.
- Avoid formation of oil mist.
- Follow good industrial hygiene practices.
- Handle using clean equipment.
- Keep containers tightly closed.

Storage

Store in tightly sealed original containers in a cool, dry, and well-ventilated location.

Protect from direct sunlight, excessive heat, moisture, and contamination.

Recommended storage temperature is generally between 15°C and 25°C.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Provide adequate general ventilation. Local exhaust ventilation is recommended where oil mist may be generated.

Personal Protective Equipment

- **Respiratory Protection:** Normally not required. Use an organic vapor or mist respirator where ventilation is inadequate.
- **Eye Protection:** Safety glasses or splash goggles.
- **Hand Protection:** Chemical-resistant gloves.
- **Skin Protection:** Protective clothing where repeated contact is expected.

9. Physical and Chemical Properties

Appearance: Clear amber to reddish-brown oily liquid

Odor: Characteristic herbal, slightly nutty odor

Physical State: Liquid

pH: Not applicable

Specific Gravity: Approximately 0.91–0.94

Density: Approximately 0.91–0.94 g/cm³

Solubility: Insoluble in water; soluble in many vegetable oils and organic solvents

Viscosity: Medium viscosity

Flash Point: Generally above 200°C

Boiling Point: Not determined; decomposes at elevated temperatures

Melting Point: Not applicable

Auto-Ignition Temperature: Not determined

Explosive Properties: Not explosive under normal conditions

Oxidizing Properties: None known

Vapor Pressure: Very low

Vapor Density: Not applicable

10. Stability and Reactivity

Reactivity: Stable under recommended storage conditions.

Chemical Stability: Stable under normal temperatures and storage conditions.

Conditions to Avoid: Excessive heat, Direct sunlight, Oxidizing conditions, Prolonged exposure to air

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, smoke, and irritating organic decomposition products.

11. Toxicological Information

Acute Toxicity: Low acute toxicity is expected under normal conditions of use.

Skin Irritation: May produce mild irritation after prolonged exposure.

Eye Irritation: May cause temporary irritation.

Respiratory Effects: Oil mist may irritate the respiratory tract.

Sensitization: Not expected under normal conditions, although sensitive individuals may experience mild reactions.

Carcinogenicity: No known carcinogenic effects.

Mutagenicity: No known mutagenic effects.

Reproductive Toxicity: No known reproductive toxicity under intended conditions of use.

12. Ecological Information

Ecotoxicity: No significant ecological hazard is expected under normal conditions.

Persistence and Degradability: Expected to biodegrade naturally.

Bioaccumulative Potential: Low.

Mobility: Insoluble in water and may float on the water surface.

Environmental Precautions: Prevent large releases into the environment.

13. Disposal Considerations

Dispose of unused material and contaminated absorbents according to local environmental regulations.

Do not discharge into drains or natural waterways.

Dispose of empty containers after complete cleaning or through an approved waste management facility.

14. Transport Information

Malkangni Oil Natural Grade is generally not regulated as dangerous goods for transportation under ADR/RID, IMDG, or IATA when supplied as a conventional natural vegetable oil and when it does not contain hazardous additives.

The product should be transported in clean, tightly sealed containers to prevent leakage, contamination, oxidation, and deterioration during transit.

UN Number: Not regulated.

UN Proper Shipping Name: Not regulated.

Transport Hazard Class: Not regulated.

Packing Group: Not applicable.

Environmental Hazard: Not classified as environmentally hazardous for transport.

Marine Pollutant: No.

Road Transport (ADR/RID): Transport in tightly closed drums, bottles, or approved containers. Protect from excessive heat, direct sunlight, moisture, and mechanical damage. Secure containers properly to prevent movement during transportation.

Sea Transport (IMDG): Normally not classified as dangerous goods under IMDG regulations. Containers should be protected from seawater, contamination, excessive heat, and physical damage. Keep packages securely closed throughout shipment.

Air Transport (IATA): Generally not regulated as dangerous goods when shipped in normal commercial packaging. Ensure leak-resistant packaging suitable for air transport and protect against pressure variations.

Special Transport Precautions:

- Keep containers tightly closed.
- Protect from direct sunlight and elevated temperatures.
- Prevent leakage and contamination.
- Do not transport damaged or leaking containers.
- Keep away from strong oxidizing agents.
- Secure cargo properly to avoid shifting during transport.
- Inspect containers before dispatch.
- Maintain good housekeeping during loading and unloading.
- Clean spills immediately to eliminate slip hazards.
- Follow applicable local and international transportation regulations.

Transport in Bulk According to MARPOL Annex II and IBC Code: Not applicable for standard packaged shipments.

Emergency Transport Information: In case of accidental leakage during transport, isolate the area and prevent the product from entering drains or natural waterways. Contain the spill using sand, earth, or other inert absorbent material. Collect waste into suitable containers for disposal. Personnel involved in cleanup should wear gloves, protective eyewear, and appropriate protective clothing.

15. Regulatory Information

- Handle the product in accordance with applicable occupational safety, environmental protection, food, cosmetic, herbal, and transportation regulations relevant to its intended use.
- The finished product is generally not classified as hazardous under normal conditions of handling and storage.

16. Other Information

The information contained in this Material Safety Data Sheet is based on currently available information regarding Malkangni Oil Natural Grade and is intended to provide guidance for safe handling, storage, transportation, and disposal.

Product characteristics may vary depending on botanical origin, extraction method, processing, and grade. Users should consult the applicable product specification and Certificate of Analysis before use.

This document does not constitute a guarantee of product specifications or suitability for any particular application.

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- MSDS are based on the manufacturer's provided information.