

Material Safety Data Sheet

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Madecassoside 90%

Botanical Name: Centella asiatica

Common Name: Gotu Kola

Plant Part: Whole Plant

Appearance: White Powder

CAS No.: 34540-22-2

Molecular Formula: C₄₈H₇₈O₂₀

Molecular Weight: 975.1 g/mol

Product Form: Powder

Recommended Use: Skin-care, hair-care and personal-care formulations

Origin: China

Supplier: Botanic Planet Canada Inc.

Address: 2 Bram Crt Unit # 3-4 Brampton, Ontario, Canada

Telephone number: 905-455-4444

Emergency phone number (613)-996-6666 CANUTEC 24 HOUR EMERGENCY

SECTION 2 – HAZARD IDENTIFICATION

Based on available information, this material is not expected to be classified as hazardous under normal conditions of intended cosmetic raw-material handling. Potential Routes of Exposure: Eye contact, skin contact, inhalation of airborne powder and accidental ingestion.

Eye Contact: Powder may cause mechanical irritation, redness or discomfort.

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

Inhalation: Airborne dust may cause irritation of the nose, throat or respiratory tract.

Ingestion: Not intended for ingestion. May cause gastrointestinal discomfort if significant quantities are swallowed.

Precaution: Avoid generating or breathing dust. Avoid contact with eyes.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Concentration
Madecassoside	34540-22-2	90%
Other naturally occurring constituent's / carrier components	Proprietary	Proprietary Blend

Product Specification: Madecassoside 90%

SECTION 4 – FIRST-AID MEASURES

Eye Contact: Immediately flush eyes with clean water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.

Skin Contact: Wash thoroughly with soap and water. Remove contaminated clothing. Seek medical attention if irritation develops or persists.

Inhalation: Move affected person to fresh air. Keep comfortable for breathing. Seek medical attention if coughing, irritation or breathing difficulty persists.

Ingestion: Rinse mouth thoroughly with water. Do not induce vomiting unless directed by medical personnel. Seek medical advice if a significant amount has been swallowed or symptoms develop.

SECTION 5 – FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, dry chemical, carbon dioxide (CO₂) or appropriate foam.

Specific Hazards: Fine organic powder may form combustible dust concentrations in air under certain conditions. Avoid unnecessary dust generation.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide and other decomposition products may be produced during combustion.

Protective Equipment: Firefighters should wear appropriate protective equipment and self-contained breathing apparatus where necessary.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Avoid generating airborne dust.

Wear suitable protective gloves, safety glasses and a dust mask/particulate respirator where significant airborne powder may be generated.

Carefully sweep, scoop or vacuum spilled material using appropriate dust-control equipment and place it into a suitable closed container.

Avoid discharge of large quantities into drains, waterways or soil.

SECTION 7 – HANDLING AND STORAGE

Handling

Handle according to good industrial hygiene practices.

Avoid:

- Breathing dust.
- Contact with eyes.
- Excessive dust generation.
- Eating, drinking or smoking while handling the material.

Wash hands thoroughly after handling.

Storage

Store in a cool, dry and well-ventilated area.

Keep container tightly closed and protect from:

- **Direct sunlight**
- **Heat**
- **Moisture**
- **Strong oxidizing agents**
- **Contamination**

Recommended Shelf Life: 36 months under appropriate storage conditions, subject to supplier/batch documentation.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit: No product-specific occupational exposure limit established in this document.

Engineering Controls: General ventilation is normally adequate. Local exhaust ventilation may be appropriate where significant dust is generated.

Eye Protection: Safety glasses or goggles recommended during bulk handling.

Hand Protection: Protective gloves recommended.

Respiratory Protection: Normally not required under conditions where airborne dust is adequately controlled. Appropriate particulate respiratory protection should be considered when dust levels are excessive.

General Hygiene: Wash hands after handling. Avoid contact with eyes and unnecessary skin exposure.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Physical State	Solid powder
Appearance	White powder
Odor	Characteristic / mild

Property	Specification
Madecassoside Content	90%
Molecular Formula	C ₄₈ H ₇₈ O ₂₀
Molecular Weight	975.1 g/mol
Melting Point	215–218 °C
Bulk Density	0.45–0.65 g/cm ³
pH (1% Solution)	4.5–6.0
Loss on Drying	≤5.0%
Solubility	Solubility should be confirmed against supplier specification for this grade
Flash Point	Not established
Vapor Pressure	Not applicable / not established
Flammability	Not established

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability: Expected to be stable under recommended storage and handling conditions.

Conditions to Avoid: Excessive heat, moisture, direct sunlight and excessive airborne dust generation.

Incompatible Materials: Strong oxidizing agents.

Hazardous Polymerization: Not expected to occur.

Hazardous Decomposition Products: Thermal decomposition or combustion may produce carbon monoxide, carbon dioxide and other organic decomposition products.

SECTION 11 – TOXICOLOGICAL INFORMATION

Complete product-specific toxicological data have not been established in this document.

Acute Toxicity: Data not established.

Skin Irritation: May cause irritation in sensitive individuals.

Eye Irritation: Airborne or direct powder contact may cause mechanical irritation.

Respiratory Irritation: Dust may irritate the respiratory tract.

Skin Sensitization: Data not established.

Carcinogenicity: No classification assigned in this document.

Mutagenicity: Data not established.

Reproductive Toxicity: Data not established.

SECTION 12 – ECOLOGICAL INFORMATION

Product-specific environmental data are not established.

Avoid unnecessary release of concentrated material into the environment.

Ecotoxicity: Data not available.

Persistence and Degradability: Data not established.

Bioaccumulative Potential: Data not established.

Mobility in Soil: Data not established.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of product, contaminated material and packaging in accordance with applicable local, provincial and federal regulations.

Do not dispose of large quantities into drains, sewers or natural waterways.

SECTION 14 – TRANSPORT INFORMATION

Transport Information	Classification
UN Number	Not assigned
UN Proper Shipping Name	Not applicable
Transport Hazard Class	Not assigned
Packing Group	Not assigned
TDG	Not expected to be regulated as dangerous goods
IMDG	Not expected to be regulated as dangerous goods
IATA	Not expected to be regulated as dangerous goods

SECTION 15 – REGULATORY INFORMATION

The purchaser and user are responsible for determining the applicable regulatory requirements for the intended use and jurisdiction.

For use as a cosmetic raw material, the finished-product manufacturer is responsible for ensuring that the final formulation, concentration, claims and labeling comply with applicable cosmetic regulations.

SECTION 16 – OTHER INFORMATION

This product is a 100% pure and natural. It does not contain any artificial ingredients or adulteration of any kind to the best of our knowledge and specifications. The analysis and statements herein constitute the most complete information available to Botanic Planet Canada Inc. Please refer to all relevant technical information specific to the product, prior to use. This information contained in this material safety Data sheet is obtained from current and reliable sources. As an ordinary or otherwise user(s) of this product is outside the control of Botanic Planet Canada Inc., no representation or warranty, expressed or implied is made as to the effect(s) of such use (s) (including damages or injury) or any obtained. Botanic Planet Canada Inc. expressly disclaims responsibility as to the ordinary or otherwise uses. Furthermore, Botanic Planet Canada Inc. makes no claims as to the fitness for any use, and you should consider nothing contained herein as a recommendation. The Liability of botanic Planet Canada Inc. is limited to the value of the goods and does not include any consequential loss. In the event of any dispute, the Customer hereby agrees that Jurisdiction is limited to the province of Ontario Canada.

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