

MATERIAL SAFETY DATA SHEET (MSDS)

ALPHA-ARBUTIN POWDER

Product Name	Alpha-Arbutin	CAS No.	84380-01-8
Molecular Formula	C12H17O7	Molecular Weight	272.25 g/mol
Lot Number	BPCAAP52026	Expiry Date	May 2029
Product Type	Cosmetic Raw Material / Powder		

SECTION 1 - IDENTIFICATION

Product Identifier: Alpha-Arbutin Powder

CAS Number: 84380-01-8

Recommended Use: Cosmetic raw material; ingredient for cosmetic and personal-care formulations.

Supplier: Botanic Planet Canada Inc., 2 Bram Court, Unit #3, Brampton, ON L6W 3R6, Canada
www.botanicplanet.ca

SECTION 2 - HAZARDS IDENTIFICATION

The supplied Certificate of Analysis does **not** provide GHS/WHMIS hazard-classification information. Therefore, no specific GHS hazard classification, signal word, hazard statements, or pictograms are assigned in this MSDS based solely on the supplied data.

General Precautions: Avoid generating or breathing dust. Avoid contact with eyes. Use normal good industrial hygiene practices when handling cosmetic raw-material powders.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Concentration
Alpha-Arbutin	84380-01-8	>=99.95%

Purity by HPLC: 99.97% **Content:** 99.96% **Hydroquinone:** Not detected

SECTION 4 - FIRST-AID MEASURES

Inhalation: Move affected person to fresh air. Seek medical attention if irritation or discomfort persists.

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

Eye Contact: Immediately rinse cautiously with clean water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.

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

SECTION 5 - FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use extinguishing media appropriate for the surrounding fire.

Specific Fire/Explosion Hazards: Not established from the supplied product documentation.

Protective Equipment: Firefighters should use appropriate protective equipment and self-contained breathing apparatus when required by surrounding fire conditions.

Avoid dispersing accumulated powder into the air.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Avoid creating airborne dust. Wear appropriate personal protective equipment. Carefully sweep or vacuum spilled material and place it into a suitable closed container. Wash the affected area after material has been collected. Prevent unnecessary release into drains and waterways.

SECTION 7 - HANDLING AND STORAGE

Handling: Use good industrial hygiene practices. Avoid breathing dust, eye contact, unnecessary prolonged skin contact, and generation of excessive airborne dust. Wash hands thoroughly after handling.

Storage: Store in tight, light-resistant containers. Protect from direct sunlight, moisture and excessive heat. Keep container securely closed when not in use.

Shelf Life: 24 months under the stated storage conditions and in the original packaging.

Current Lot Expiry: May 2029

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Specific occupational exposure limits were not provided in the supplied product documentation.

Engineering Controls: Provide adequate ventilation, particularly where dust may be generated.

Respiratory Protection: Use suitable particulate/dust protection when significant airborne dust may occur.

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

Hand Protection: Protective gloves recommended for prolonged or repeated handling.

General Hygiene: Wash hands after handling. Avoid eating, drinking or smoking in raw-material handling areas.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Property	Information
Physical State	Solid
Appearance	White crystalline powder
Color	White
Odor	Not specified in supplied COA
Molecular Formula	C ₁₂ H ₁₇ O ₇
Molecular Weight	272.25 g/mol
pH	6.35
pH Specification	5.0-7.0
Solubility in Water	Soluble
Solubility in Ethanol	Slightly soluble
Solution Appearance	Clear, colorless
Specific Rotation	+178.51 deg
Loss on Drying	0.03%
Residue on Ignition	0.01%

Other physical properties such as melting point, boiling point, vapor pressure, flash point and density were not provided in the supplied Certificate of Analysis.

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Expected to remain stable when stored according to the recommended conditions.

Conditions to Avoid: Direct sunlight, moisture and excessive heat.

Incompatible Materials: Not specified in the supplied documentation.

Hazardous Decomposition Products: Not specified in the supplied documentation.

Hazardous Polymerization: No information provided.

SECTION 11 - TOXICOLOGICAL INFORMATION

Specific toxicological studies, LD₅₀ values and exposure data were not supplied with the Certificate of Analysis. Potential exposure routes during raw-material handling include inhalation of dust, eye contact, skin contact and accidental ingestion. No medical or therapeutic claims are made by this MSDS.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity, biodegradability, bioaccumulation and environmental-fate data were not provided in the supplied documentation. Avoid unnecessary discharge of concentrated raw material into the environment.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of unused material, contaminated packaging and collected spills in accordance with applicable local, provincial and federal regulations. Do not discharge large quantities directly into drains or waterways.

SECTION 14 - TRANSPORT INFORMATION

Transportation classification was not provided in the supplied Certificate of Analysis.

Transport Information	Status
UN Number	Not established from supplied data
Proper Shipping Name	Not established from supplied data
Transport Hazard Class	Not established from supplied data
Packing Group	Not established from supplied data

This section should be confirmed against the manufacturer's current SDS before commercial transportation classification is assigned.

SECTION 15 - REGULATORY INFORMATION

The supplied Certificate of Analysis does not provide detailed Canadian, U.S., EU or other jurisdiction-specific regulatory classifications.

CAS No.: 84380-01-8

Users are responsible for ensuring that the product and finished formulations comply with all applicable regulations in their intended market and application.

SECTION 16 - OTHER INFORMATION

Batch Quality Information

Parameter	Result
Purity by HPLC	99.97%
Content	99.96%
Hydroquinone	Not detected
Heavy Metals	<10.0 ppm
Arsenic	0.005 ppm
Lead	Not detected
Mercury	Not detected
Cadmium	Not detected
Total Microbial Count	<10 CFU/g
Mould & Yeast	<10 CFU/g
Coliforms	Not detected
Staphylococcus aureus	Not detected
Pseudomonas aeruginosa	Not detected

Disclaimer: The information contained in this MSDS has been prepared using the product identity, specifications and analytical results supplied for Alpha-Arbutin, Lot BPCAAP52026. Where the supplied documentation did not contain hazard, toxicological, ecological, regulatory or transportation information, such information has not been invented or represented as manufacturer-tested data. This document is intended to provide general guidance for safe handling, storage and use of the raw material. Users should evaluate the material under their specific conditions of use and consult the manufacturer's current safety documentation where regulatory classification is required.

Prepared for: Botanic Planet Canada Inc.

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