Material Safety Data Sheet

βeta-NMN, Nicotinamide Mononucleotide

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Beta NMN Powder
Chemical Name: β-Nicotinamide Mononucleotide
Synonyms: β-NMN, Nicotinamide Mononucleotide
CAS No.: 1094-61-7
Molecular Formula: $C_{11}H_{15}N_2O_8P$
Molecular Weight: 334.22 g/mol
Product Grade: Cosmetic Grade
Recommended Use: Cosmetic and personal-care raw material
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

A manufacturer-issued GHS/WHMIS classification has not been provided for this material.
General Handling Precautions:

- Avoid generating or breathing dust.
- Avoid contact with eyes.
- Avoid prolonged or repeated skin contact.
- Wash thoroughly after handling.
- Keep out of reach of children.
- Use appropriate personal protective equipment when handling bulk powder.

Potential Effects: Airborne powder may cause mechanical irritation of the eyes, nose, throat, or respiratory tract.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Concentration
β-Nicotinamide Mononucleotide (β-NMN)	1094-61-7	≥99%

Molecular Formula: $C_{11}H_{15}N_2O_8P$
Molecular Weight: 334.22 g/mol

SECTION 4. FIRST-AID MEASURES

Eye Contact: Rinse cautiously with clean water for at least 15 minutes. Remove contact lenses if present and easy to do. Obtain medical attention if irritation persists.
Skin Contact: Wash affected area thoroughly with soap and water. Remove contaminated clothing. Seek medical attention if irritation develops.
Inhalation: Move person to fresh air. Keep comfortable for breathing. Seek medical attention if respiratory symptoms persist.
Ingestion: Rinse mouth with water. Do not induce vomiting unless instructed by medical personnel. Seek medical advice if a significant quantity has been swallowed or symptoms occur.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, dry chemical, carbon dioxide (CO_2), or foam appropriate for the surrounding fire.
Specific Hazards: Fine organic powder dispersed in air may present a dust hazard. Avoid generating excessive airborne dust.
Hazardous Decomposition Products: Thermal decomposition may generate carbon oxides, nitrogen oxides, and phosphorus-containing compounds.
Firefighter Protection: Wear appropriate protective equipment and self-contained breathing apparatus when conditions require.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Avoid generating dust.
Wear suitable gloves, protective clothing, and eye protection.
Carefully sweep or vacuum spilled material using equipment appropriate for fine powders. Transfer material to a suitable closed container for disposal.
Avoid uncontrolled discharge into drains or waterways.

SECTION 7. HANDLING AND STORAGE

Handling

Handle in a well-ventilated area. Avoid dust formation and unnecessary exposure to the powder. Avoid contact with eyes and prolonged contact with skin. Wash hands thoroughly after handling.

Storage

Store:

- In a cool, dry place
- In a tightly sealed container
- Protected from moisture
- Protected from direct sunlight
- Away from excessive heat

Keep the original container securely closed when not in use.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits: No product-specific exposure limit has been provided.

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

Eye Protection: Safety glasses or chemical goggles.

Hand Protection: Suitable protective gloves.

Skin Protection: Protective clothing appropriate to the quantity being handled.

Respiratory Protection: Normally not required where adequate ventilation prevents airborne dust. For dusty conditions, use appropriate particulate respiratory protection according to workplace requirements.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Description
Physical State	Solid powder
Appearance	White to off-white powder
Odour	Not established
CAS No.	1094-61-7
Molecular Formula	$C_{11}H_{15}N_2O_8P$
Molecular Weight	334.22 g/mol
Assay	≥99%
Solubility	Water soluble
pH	Batch-specific data required

Property	Description
Melting/Decomposition Point	Data not provided
Flash Point	Not applicable/established for supplied powder
Vapour Pressure	Not established
Relative Density	Not established

SECTION 10. STABILITY AND REACTIVITY

Stability: Expected to remain stable when stored under recommended conditions.
Conditions to Avoid: Excessive heat, moisture, direct sunlight, and conditions that generate excessive airborne dust.
Incompatible Materials: Specific incompatibility data have not been provided by the manufacturer.
Hazardous Decomposition Products: Carbon oxides, nitrogen-containing compounds, and phosphorus-containing decomposition products may form under severe heating or combustion.
Hazardous Polymerization: Not expected under normal storage conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Detailed manufacturer toxicological data have not been provided.
Likely Routes of Exposure:

- Eye contact
- Skin contact
- Inhalation of dust
- Ingestion

Acute Toxicity: Data not available.
Skin Irritation: Data not available.
Eye Irritation: Dust may cause mechanical irritation.
Skin Sensitization: Data not available.
Carcinogenicity: Data not available.
Mutagenicity: Data not available.
Reproductive Toxicity: Data not available.
Absence of data should not be interpreted as evidence that a hazard is absent.

SECTION 12. ECOLOGICAL INFORMATION

Specific ecological testing data have not been provided.

Ecotoxicity: Data not available.
Persistence and Degradability: Data not available.
Bioaccumulative Potential: Data not available.
Mobility in Soil: Data not available.
Avoid unnecessary release of bulk material into the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Dispose of unused product, contaminated material, and packaging in accordance with applicable federal, provincial/state, and local regulations.
Do not dispose of significant quantities into drains or natural waterways.

SECTION 14. TRANSPORT INFORMATION

A manufacturer transportation classification has not been provided.
UN Number: Not established from available information
Proper Shipping Name: Not established
Transport Hazard Class: Not established
Packing Group: Not established
Confirm current TDG, DOT, IMDG, and IATA classification against the manufacturer's official SDS before commercial transportation.

SECTION 15. REGULATORY INFORMATION

Regulatory status and inventory listings should be verified for the jurisdiction in which the material and finished cosmetic product will be manufactured or marketed.
A manufacturer-issued WHMIS/GHS classification has not been supplied.

SECTION 16. OTHER INFORMATION

None

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 container 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.