

Material Safety Data Sheet

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Adenosine Cosmetic Grade Powder

Chemical Name: Adenosine

Synonyms: Adenine riboside; 9-β-D-Ribofuransyladenine

CAS No.: 58-61-7

Appearance: White or almost white crystalline powder

Molecular Formula: C₁₀H₁₃N₅O₄

Molecular Weight: 267.24 g/mol

Recommended Use: Cosmetic raw material / cosmetic active ingredient

Origin: USA

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

GHS Classification: Not classified as hazardous based on the referenced current supplier SDS.

Signal Word: None required.

GHS Pictogram: None required.

Hazard Statements: None required under the cited classification.

As with other fine powders, avoid unnecessary dust generation and direct contact with the eyes.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Concentration
Adenosine	58-61-7	98.0–100%
Batch Assay:		99.68%
Purity: High-purity Adenosine		

SECTION 4 – FIRST-AID MEASURES

Eye Contact: 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.

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

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

Ingestion: Rinse mouth with water. Seek medical advice if a significant quantity has been swallowed or symptoms develop.

SECTION 5 – FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, dry chemical, carbon dioxide (CO₂) or appropriate foam. Adenosine is listed by Sigma-Aldrich in Storage Class 11 – Combustible Solids, although flash point is listed as not applicable.

Hazardous Combustion Products: Carbon oxides and nitrogen oxides may be produced during combustion/decomposition.

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

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Avoid generating airborne dust. Wear appropriate protective equipment.

Carefully sweep, scoop or vacuum spilled powder and place into a suitable closed container.

Avoid uncontrolled release of significant quantities into drains, waterways or the environment.

SECTION 7 – HANDLING AND STORAGE

Handle according to good industrial hygiene practices. Avoid breathing dust and direct eye contact.

Wash hands thoroughly after handling.

Storage: Store in tightly closed, light-resistant containers. Protect from direct sunlight, moisture and excessive heat.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Protection	Recommendation
Eye Protection	Safety glasses / goggles
Hand Protection	Protective gloves
Respiratory Protection	Dust/particulate protection when significant airborne powder is generated
Skin Protection	Appropriate protective clothing
Ventilation	Adequate general or local ventilation

Protection	Recommendation
Hygiene	Wash hands after handling

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Property	Information
Physical State	Solid
Appearance	White or almost white crystalline powder
Odor	Characteristic
Assay	98.0–102.0%
Batch Assay	99.68%
Molecular Formula	C ₁₀ H ₁₃ N ₅ O ₄
Molecular Weight	267.24 g/mol
Specific Rotation	–68.0° to –72.0°
Batch Specific Rotation	–70.2°
Loss on Drying	≤0.5%
Total Ash	≤0.1%
Flash Point	Not applicable
Solubility	Limited water solubility; solubility depends on solvent and conditions

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable under recommended storage and handling conditions.

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

Incompatible Materials: Strong oxidizing agents.

Hazardous Polymerization: Not expected.

Hazardous Decomposition Products: Carbon oxides and nitrogen-containing decomposition products may form during combustion.

SECTION 11 – TOXICOLOGICAL INFORMATION

Complete toxicological properties of the commercial product have not been fully established.

Likely Routes of Exposure: Inhalation of dust, eye contact, skin contact and ingestion.

Adenosine is not considered hazardous under OSHA's 2024 Hazard Communication Standard, while also noting that its toxicological properties have not been fully investigated.

SECTION 12 – ECOLOGICAL INFORMATION

Complete product-specific ecological information is not available.

Avoid unnecessary release of concentrated material into soil, drains or waterways.

Ecotoxicity: Data not established.

Persistence/Degradability: Data not established.

Bioaccumulation: Data not established.

SECTION 13 – DISPOSAL CONSIDERATIONS

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

SECTION 14 – TRANSPORT INFORMATION

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

The current Fisher Scientific SDS specifically lists Adenosine as not regulated under IMDG/IMO.

SECTION 15 – REGULATORY INFORMATION

The purchaser and finished-product manufacturer are responsible for determining regulatory suitability for the intended application and jurisdiction.

SECTION 16 – OTHER INFORMATION

Product: Adenosine

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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