



ARBOR
ASSAYS

Material Safety Data Sheet

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Section 1: Product and Company Identification

Product Name	5-Azacytidine		
Synonyms	4-Amino-1-β-D-ribofuranosyl-1,3,5-triazin-2(1H)-one		
Chemical Formula	C ₈ H ₁₂ N ₄ O ₅	FW=244.20	CAS No.: 320-67-2
Catalog Number	P012-50MG and P012-250MG		
Company	Arbor Assays, LLC 1514 Eisenhower Place Ann Arbor, MI 48108-3284 USA		Telephone 734-677-1774 Fax 734-661-1884

Section 2: Composition / Ingredient Information

Hazardous Ingredients May be harmful if ingested, inhaled, or absorbed through the skin. May cause irritation. To the best of our knowledge, the toxicological properties of this compound have not been fully investigated. Exercise appropriate precautions to prevent opportunities for inhalation, and to prevent direct contact with skin and eyes. All uncharacterized chemicals should be treated as suspected toxins.

Section 3: Health Hazards

Acute Health Effects This substance is a carcinogen and may be harmful if ingested, inhaled, or absorbed through the skin. May cause irritation. To the best of our knowledge, the toxicological properties of this compound have not been fully investigated. Exercise appropriate precautions to prevent opportunities for inhalation, and to prevent direct contact with skin and eyes. All uncharacterized chemicals should be treated as suspected toxins.

Section 4: First Aid Measures

Inhalation	Remove from exposure. If breathing is difficult, administer oxygen. If breathing stops, administer artificial respiration. Seek medical attention immediately. Provide chemical label and MSDS if possible.
Skin Contact	Wash thoroughly with soap and water. Remove contaminated clothing and shoes. Seek medical attention immediately
Eye Contact	Check for and remove contact lenses. Flush eyes with running water for at least 15 minutes separating eyelids. Seek medical attention immediately
Ingestion	Remove dentures and clear mouth. If person is conscious, rinse mouth with water. Call physician or poison control immediately. Provide chemical label and MSDS information if possible.



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Section 5: Fire Fighting Measures

Flash Point	Not available
Combustion Products	Carbon monoxide, carbon dioxide, nitrogen oxides
Explosion Limits	Not significant
Auto-ignition Temp	N/A
Flammability	Not significant
Extinguishing Media	Suitable: Water spray, carbon dioxide, dry chemical, or alcohol-resistant foam
Firefighting	Protective Equipment: Wear self-contained breathing apparatus if necessary.

Section 6: Accidental Release Measures

Cleanup Procedures	Wear appropriate protective clothing. Sweep up and shovel without creating dust, and place in suitable, closed container for appropriate disposal. Wash area of spill with soap and water. Ensure adequate ventilation.
Waste Disposal	Dispose of in accordance with federal, state, and local regulations.

Section 7: Handling and Storage

Handling	Avoid getting this product on you or in you. Always wear appropriate protective clothing. Always wash hands and other exposed areas thoroughly after using this product. Do not eat or drink while using this product. Avoid formation of dust and aerosols. Avoid breathing dust, vapors, mist, or gas. Ventilate the area. Qualified and experienced professionals only should handle this product.
Storage	Store according to the package insert instructions.

Section 8: Exposure Controls and Personal Protection

Engineering Controls	No special engineering controls are required when working with this product.
Protective Equipment	Safety glasses are recommended to prevent eye contact. Chemical resistant gloves, a lab coat, and a mask should be worn to prevent skin contact.

Section 9: Physical and Chemical Properties

Appearance	White powder
Odor	Not determined
Melting Point	226-232°C
Flash Point	Not determined
Density	Not determined
Vapor Pressure	Not determined
Solubility in Water	Not determined
pH	Not determined



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Section 10: Stability and Reactivity

Stability	This material is stable until the expiration date on the bottle if stored as directed.
Conditions to Avoid	None known
Incompatibles	Strong oxidizing agents

Section 11: Toxicological Information

Route of Exposure

Skin Contact	May cause skin irritation.
Skin Absorption	May be harmful if absorbed through the skin.
Eye Contact	May cause eye irritation.
Inhalation	May be harmful if inhaled. May be irritating to respiratory tract.
Ingestion	Carcinogen. May be harmful if swallowed.
Symptoms of Exposure	Nausea, headache, vomiting, or liver injury may occur.

Section 12: Ecological Information

No data is available.

Section 13: Disposal Considerations

Dispose of waste materials, unused components and contaminated packaging in compliance with country, state, district and local regulations. If unsure of the applicable requirements, contact the authorities for information.

Section 14: Transport Information

U.S. and Canadian Transportation; DOT

Proper Shipping Name	Not classified as dangerous per transport regulations
UN Identification Number	None assigned
Class and Description	None assigned
Packing Group	N/A
Hazard Label	Non-Hazardous for Transport

International Air Transportation (IATA)

Proper Shipping Name	Not classified as dangerous per transport regulations
UN Identification Number	None assigned
Class and Description	None assigned
Packing Group	N/A
Hazard Label	Non-Hazardous for Air Transport



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Section 15: Regulatory Information

Product related information

The product is not subject to classification according to the sources of literature known to us.

Observe general safety regulations when handling chemicals.

Safety Statements

Avoid release to the environment.

Risk Statements

Harmful if swallowed, Carcinogen, Target Organ Effect. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

U.S. Regulatory Information

Sara Listed: No, none of the material contained in this product is subject to SARA 313 Reporting requirements.

Section 16: Other Information

Disclaimer: For Research Use Only. Not for diagnostic, therapeutic, or other uses.

Further Information: The information contained in this document is accurate to the best of our knowledge and is provided in good faith. This document is intended only as a guide for the appropriate precautionary handling of the material by properly trained personnel using this product. Final determination or suitability of any material is the sole responsibility of the user. Arbor Assays LLC shall not be held liable for any damage resulting from use or handling of this product.