



Cytidine

Safety Data Sheet

According to Regulation (EC) 1272/2008
Issue Date: 01/13/21 Revision date: 01/13/24

SECTION 1 - Chemical Product and Company Identification

1.1 Product Identifiers

Product Name : Cytidine
CAS # : 65-46-3
EC# : 200-610-9
RTECS # : UW7370000

1.2 Recommended Use of the Chemical and Restrictions of Use

For laboratory use

1.3 Supplier Details

Supplier : BioSpectra, Inc.
100 Majestic Way
Bangor, PA 18013
T: 610-599-3400
ehs@biospectra.us

1.4 Emergency Numbers

Emergency Numbers : US & Canada: 1-800-424-9300
Outside the US & Canada: +1 703-527-3887

SECTION 2 - Hazards Identification

2.1 Classification of the Substance or Mixture

Not Classified as a Hazardous Substance per GHS nor EC 1272/2008

2.2 GHS Label Element Including Precautionary Statements

Precautionary Statements:
: P264 - Wash hands thoroughly after handling
: P308 + P313 - IF exposed or concerned; Get medical advice/attention

SECTION 3 - Composition, Information on Ingredients

Chemical Name : Cytidine
Synonyms : Cytosine β -D-ribose, Cytosine-1- β -D-ribofuranoside
Chemical Formula : $C_9H_{13}N_3O_5$
CAS # : 65-46-3
EC : 200-610-9

SECTION 4 - First Aid Measures

4.1 Description of Necessary First Aid Measures

Eyes : Flush eyes with water for 15 minutes. Ensure to lift lower and upper eyelids. If effects occur, consult an ophthalmologist.
Skin : Flush exposed area with tepid water for 15 minutes. Remove contaminated clothing.
Ingestion : If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Rinse mouth with water.
Inhalation : Move person to fresh air, if effects occur, consult a physician.

4.2 Notes to Physician

Treat Symptomatically

SECTION 5 - Firefighting Measures

5.1 Extinguishing Media

Use extinguisher appropriate for surrounding media.

5.2 Specific Hazards Associated with this Chemical

Carbon oxides, nitrogen oxides

5.3 Special Equipment/Precautions for Firefighters

Wear NIOSH approved self-contained breathing apparatus for fire-fighting if necessary.

SECTION 6 – Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Use Personal Protective Equipment as defined in Section 8. Avoid dust formation. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 Environmental Precautions

Do not allow to enter drains.

6.3 Methods and Materials for Containment and Cleaning Up

Sweep up and shovel into appropriate containers for disposal.

SECTION 7 - Handling and Storage

7.1 Precautions for Safe Handling

Employees should wash hands and face before eating, drinking. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Keep away from air and light. Potential for combustible dust formation, handle in a well-ventilated area.

7.2 Conditions for Storage Including any Incompatibilities

Keep container tightly closed and store between 2-8°C, do not store above 20°C. Store in a dry and well-ventilated area.

SECTION 8 - Exposure Controls, Personal Protection

8.1 Control Parameters

Not a substance with occupational exposure limit values.

8.2 Personal Protective Measures

Eyes

Face shield and or safety glasses. Use equipment for eye protection and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin

Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Wear appropriate protective clothing to prevent skin exposure.

Hand

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respirators

Dust respirator for nuisance dust, follow local and national regulations.

SECTION 9 – Physical and Chemical Properties**9.1 Chemical Property Information**

Physical State	: Solid
Appearance	: White solid
Odor	: None
pH	: N/A
Vapor Density	: N/A
Viscosity	: N/A
Density	: 1.9 g/mL
Vapor Pressure	: <0.0001 mm Hg
Melting Point	: 210-230°C
Boiling Point	: 545.7°C
Specific Gravity/Density	: N/A
Solubility	: Soluble in water
Molecular Weight	: 243.2 g/mol
Molecular Formula	: N/A
Decomposition Temperature	: N/A
Freezing/Melting Point	: N/A

SECTION 10 - Stability and Reactivity**10.1 Chemical Stability**

Stable under recommended conditions.

10.2 Conditions to Avoid

Exposure to air or moisture over prolonged periods. Avoid static discharge.

10.3 Incompatibilities with Other Materials

Strong oxidizing agents.

10.4 Hazardous Decomposition Products

Carbon oxides (CO, CO₂), Nitrogen oxides (NO, NO₂)

SECTION 11 - Toxicological Information**11.1 Toxicological Effects**

LD50/LC50	: >2000 mg/kg (Rat)
Carcinogenicity	: Not Applicable
Potential Health Effects:	: Not Applicable
Inhalation	: Dust may cause irritation to upper respiratory tract.
Ingestion	: Not available
Skin	: Prolonged contact is unlikely to result in absorption of harmful amounts.
Eyes	: Essentially nonirritating to eyes.
Epidemiology	: Not Applicable
Teratogenicity	: Not Applicable
Reproductive Effects	: Not Applicable
Neurotoxicity	: Not Applicable
Mutagenicity	: Not Applicable

SECTION 12 - Ecological Information**12.1 Ecotoxicity**

May cause long lasting harmful effects to aquatic life.

12.2 Persistence and Degradability

N/A

12.3 Bioaccumulative Potential

N/A

12.4 Mobility in Soil

N/A

12.5 Result of PBT and vPvB assessment

N/A

SECTION 13 - Disposal Considerations**13.1 Disposal Methods**

Product : DO NOT DUMP INTO SEWER, GROUND, OR ANY BODY OF WATER. Contact a licensed professional waste disposal service to dispose of this material according to applicable local/state/federal regulations.

Contaminated packaging : Disposal of as unused product.

SECTION 14 - Transport Information

Regulations	US DOT	IATA	IMDG	ADR
Shipping Name:	Not Dangerous Goods	Not Dangerous Goods	Not Dangerous Goods	Not Dangerous Goods
Hazard Class:				
UN Number:				
Packing Group:				

SECTION 15 - Regulatory Information

SARA 302 RQ	NO	RCRA CERCLA	N/A
SARA 302 TPQ	NO	RCRA 261.33	NO
SARA 313 List Chemical	NO	TSCA INVENTORY	YES
SARA 313 Category	NO	TSCA 8(d)	NO

SECTION 16 - Additional Information**16.1 Hazard Ratings**

NFPA Classification	
Health	0
Fire	1
Reactivity	0

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