



Cambridge Isotope Laboratories, Inc.  
50 Frontage Road  
Andover, MA 01810

Number:  
Issue Date

DLM-7685  
03/15/13

Page 1 of 7

## MATERIAL SAFETY DATA SHEET

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### 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Description 2'-DEOXYCYTIDINE:H2O (RIBOSE-5,5-D2, 98%)

Cambridge Isotope Laboratories, Inc.  
50 Frontage Rd  
ANDOVER, MA 01810  
USA

E-mail [cilsales@isotope.com](mailto:cilsales@isotope.com)  
Web Site [www.isotope.com](http://www.isotope.com)

#### Phone Numbers

Emergency Contact Chemtrec  
Emergency Phone 1-800-424-9300 (24 hours)  
  
Customer Service 1-800-322-1174 (8:30-5:30 EST)  
Phone  
Transportation 1-202-483-7616 (24 hours)

### 2 HAZARDS IDENTIFICATION

#### HMIS Ratings

Physical 0  
Flammability 0  
Health 1

#### NFPA Codes

Flammability 0  
Health 1  
Reactivity 0

#### Potential Health Effects

Eyes May cause eye irritation.  
Ingestion May be harmful if swallowed.  
Inhalation May be harmful if inhaled.  
Skin May be harmful if absorbed through skin. May cause skin irritation.

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

Composition / Information on Ingredients



Cambridge Isotope Laboratories, Inc.  
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Number:  
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DLM-7685  
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Page 2 of 7

## MATERIAL SAFETY DATA SHEET

---

Chemical Formula C9D2H11N3O4·H2O  
Molecular Weight 247.25  
CAS No. 478511-25-0

### 4 FIRST AID MEASURES

#### First Aid Measures

**Eyes** Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

**Ingestion** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

**Additional Information** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### 5 FIRE FIGHTING MEASURE

#### Fire Fighting Measures

**Extinguishing Media** Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

**Fire Fighting Equipment** As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

### 6 ACCIDENTAL RELEASE MEASURES

#### Accidental Release Measures

**Personal Precautions** Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

**Environmental Precautions** Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleanup** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.



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Number:  
Issue Date

DLM-7685  
03/15/13

Page 3 of 7

## MATERIAL SAFETY DATA SHEET

---

### 7 HANDLING AND STORAGE

#### Precautions for Safe Handling

Handling                      Wash skin thoroughly after handling.  
Remove contaminated clothing and wash before reuse.  
Avoid contact with eyes, skin, and clothing.

#### Conditions for Safe Storage

Storage                      Store refrigerated (-5 C to 5 C) and desiccated.

### 8 EXPOSURE CONTROL / PERSONAL PROTECTION

#### Personal Protection

Eyes - Face                      Wear safety glasses with side shields (or goggles) and a face shield.

Skin                                Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory                      When appropriate, use NIOSH/CEN approved respirator.

Protective Clothing            Wear suitable protective clothing and gloves.

Work Hygienic Practices      Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

#### Physical and Chemical Properties (Unlabeled Compound)

Form                                Solid

Color                                White

Odor                                No data available

pH                                    No data available

Melting Point                    209 - 211 °C

Boiling Point                    No data available

Evaporation Rate                No data available

Lower Explosion                No data available



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Page 4 of 7

## MATERIAL SAFETY DATA SHEET

---

Limit	
Upper Explosion Limit	No data available
Vapor Density	No data available
Density	No data available
Solubility in Water	No data available
Auto Ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available

### 10 STABILITY AND REACTIVITY

#### Stability and Reactivity

Chemical Stability	Stable if stored under recommended conditions.
Possibility of Hazardous Reactions	Not available
Conditions to Avoid	Incompatible materials, excess heat, strong oxidants.
Hazardous decomposition products	Formed under fire conditions: Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide
Materials to avoid	Oxidizing agents

### 11 TOXICOLOGICAL INFORMATION

#### Acute Toxicity

Serious Damage/Eye Irritation	No data available
Skin Corrosion/Irritation	No data available
Inhalation	No data available
Respiratory or Skin Sensitization	Not available



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DLM-7685  
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Page 5 of 7

## MATERIAL SAFETY DATA SHEET

---

Germ Cell Mutagenicity	Mutagenic effects have occurred in experimental animals.
IARC	No component of this product present at levels greater than or equal to 0.1% is identifiable as probable, possible, or confirmed human carcinogen by IARC.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.
NTP	No component of this product present at levels greater than or equal to 0.1% is identifiable as a known or anticipated carcinogen by NTP.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive Toxicity	Adverse reproductive effects have occurred in experimental animals.
Specific Target Organ Toxicity	
Single Exposure	No data available
Repeated Exposure	No data available
Other Information	
RTECS	No data available

### 12 ECOLOGICAL INFORMATION

#### Toxicity

Persistence and Degradability	Not available
Bioaccumulative Potential	Not available
Mobility in Soil	Not available
PBT and vPvB Assessment	Not available
Other Adverse Effects	Not available

### 13 DISPOSAL CONSIDERATIONS

#### Disposal Considerations



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Number:  
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DLM-7685  
03/15/13

Page 6 of 7

## MATERIAL SAFETY DATA SHEET

---

Product Disposal      Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.

### 14 TRANSPORT INFORMATION

Transportation Information-DOT/IATA/IMDG

Special Shipping      Not dangerous goods.  
Notes

### 15 REGULATORY INFORMATION

SARA

Sara 302                  No chemicals in this material are subject to the reporting requirements.

Component

Sara 313                  No chemicals in this material are subject to the reporting requirements.

Component

STATE REGULATIONS

Massachusetts      No

Right to Know

Pennsylvania Right      No

to Know

New Jersey Right      No

to Know

California              This product does not contain any chemicals known to the State of California to cause cancer,  
Proposition 65          birth defects, or any other reproductive harm.

Canada

DSL Status              Listed on the Canadian NDSL list.

Safety Statements

Avoid any inhalation, contact with skin and eyes. Wear suitable protective clothing and gloves.

Wear suitable gloves.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

After contact with skin, wash immediately with plenty of water.

### 16 OTHER INFORMATION



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Number:  
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03/15/13

Page 7 of 7

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---

Additional MSDS  
Information

This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Approved On  
Version Number

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1