

MATERIAL SAFETY DATA SHEET

CHEMICAL PRODUCT AND COMPANY INFORMATION

2-DEOXY-D-GLUCOSE (D8, 98%) **Product Description**

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

E-mail cilsales@isotope.com Web Site www.isotope.com

Phone Numbers

Emergency Contact Chemtrec

Emergency Phone 1-800-424-9300 (24 hours)

Customer Service

Phone

1-800-322-1174 (8:30-5:30 EST)

Transportation 1-202-483-7616 (24 hours)

2 **HAZARDS IDENTIFICATION**

OSHA Hazards

No known OSHA hazards

HMIS Ratings

Physical 0 Flammability 0 Health 0

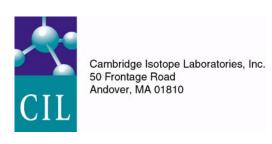
NFPA Codes

0 Fire Health 0 Reactivity 0

Potential Health Effects

Eyes May cause eye irritation. Ingestion May be harmful if swallowed.

Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Skin May be harmful if absorbed through skin. May cause skin irritation.



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COMPOSITION / INFORMATION ON INGREDIENTS 3

Composition / Information on Ingredients

2-Deoxy-D-arabinohexose Synonyms

Chemical Formula C6D8H4O5 Molecular Weight 172.2

CAS No. 154-17-6 (Unlabeled)

EC No. 205-823-0

FIRST AID MEASURES

First Aid Measures

Eyes Flush eyes with water as a precaution.

Inhalation If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a

physician.

Skin Wash with soap and water.

Additional Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a

Information physician.

FIRE FIGHTING MEASURE 5

Fire Fighting Measures

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

Hazardous Decomposition Hazardous decomposition products formed under fire conditions: Carbon oxides

Fire Fighting

Wear self contained breathing apparatus for fire fighting if necessary.

Equipment

ACCIDENTAL RELEASE MEASURES 6

Accidental Release Measures

Avoid dust formation. Avoid breathing vapors, mist or gas. Personal

Precautions

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Environmental

Do not empty into drains.

Precautions

Methods and materials for containment and Sweep up and shovel. Keep in suitable, closed containers for disposal.

cleanup

7 HANDLING AND STORAGE

Precautions for Safe Handling

Handling Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks

preventive fire protection.

Conditions for Safe Storage

Storage Store at room temperature away from light and moisture.

EXPOSURE CONTROL / PERSONAL PROTECTION 8

Personal Protecton

Work Hygienic

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

Respiratory When appropriate, use NIOSH/CEN approved respirator.

Protective Clothing Wear suitable protective clothing and gloves.

Practices and at the end of workday.

PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties (Unlabeled Compound)

Crystalline Form

Color White

рΗ No data available

146 - 147 °C (295 - 297 °F) Melting Point

Boiling Point No data available

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Flashpoint Lower Explosion No data available No data available

Limit

Upper Explosion

Limit

No data available

Solubility in Water Auto Ignition

No data available No data available

Temperature

10 STABILITY AND REACTIVITY

Stability and Reactivity

Chemical Stability Stable if stored under recommended conditions.

Hazardous decomposition Formed under fire conditions: Carbon oxides

products

Materials to avoid Strong oxidizing agents

TOXICOLOGICAL INFORMATION 11

Acute Toxicity

No data available Serious

Damage/Eye Irritation

Skin No data available

Corrosion/Irritation

Inhalation No data available

Respiratory or Skin

Sensitization

Not available

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.

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Reproductive Toxicity

Developmental Toxicity - rat - Oral

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

Reproductive toxicity - rat - Oral

Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number

of implants).

Other Information

General Comments LD50 Subcutaneous - rat - 250 mg/kg

12 ECOLOGICAL INFORMATION

Toxicity

Persistance and Degradability Not available

Bioaccumulative

Potential

Not available

Mobility in Soil

Not available

PBT and vPvB Assessment Not available

Other Adverse

Not available

Effects

13 DISPOSAL CONSIDERATIONS

Disposal Considerations

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



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REGULATORY INFORMATION 15

Regulatory Information

No known OSHA hazards

SARA

Sara 302

Component

Sara 313

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

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

Component

STATE REGULATIONS

Massachusetts

No

Right to Know

Pennsylvania Right

Yes

to Know

New Jersey Right

Yes

to Know

California

Proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth

defects, or any other reproductive harm.

Canada

DSL Status Listed on the Canadian NDSL list.

OTHER INFORMATION 16

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

07/08/14

Version Number

2