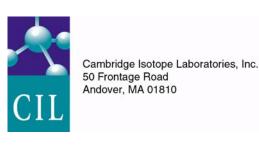
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MATERIAL SAFETY DATA SHEET

CHEMICAL PRODUCT AND COMPANY INFORMATION

D-XYLOSE (2-D, 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.



MATERIAL SAFETY DATA SHEET

3 COMPOSITION / INFORMATION ON INGREDIENTS

Composition / Information on Ingredients

Chemical Formula C5DH9O5 Molecular Weight 151.14

CAS No. 288846-91-3 (unlabeled)

EC No. 200-400-7

4 FIRST AID MEASURES

First Aid Measures

Eyes Flush eyes with water as a precaution.

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

physician.

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

physician.

Skin Wash with soap and plenty of water. Consult a physician.

Additional Information

Move out of dangerous area. Consult a physician and show this safety data sheet.

5 FIRE FIGHTING MEASURE

Fire Fighting Measures

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

Fire Fighting Equipment

Wear self contained breathing apparatus for fire fighting if necessary.

6 ACCIDENTAL RELEASE MEASURES

Accidental Release Measures

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

Precautions

Environmental Do not empty into drains.

Precautions

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MATERIAL SAFETY DATA SHEET

Methods and materials for containment and cleanup

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

7 HANDLING AND STORAGE

Precautions for Safe Handling

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

preventive fire protection.

Conditions for Safe Storage

Storage Store at room temperature away from light and moisture.

EXPOSURE CONTROL / PERSONAL PROTECTION

Personal Protecton

Work Hygienic

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

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

the work place.

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 4.5 - 6.0

154 - 158 °C (309 - 316 °F) Melting Point

Boiling Point No data available

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MATERIAL SAFETY DATA SHEET

Flashpoint Lower Explosion No data available No data available

Limit

Upper Explosion

No data available

Limit

150.13 g/l at 20 °C (68 °F) Solubility in Water

Auto Ignition

No data available

Temperature

10 STABILITY AND REACTIVITY

Stability and Reactivity

Chemical Stability Stable if stored under recommended conditions.

Conditions to Avoid Not available

Hazardous

Formed under fire conditions: Carbon oxides

decomposition products

Materials to avoid

Strong oxidizing agents

11 **TOXICOLOGICAL INFORMATION**

Acute Toxicity

LD50 Oral Mouse

Serious

No data available

23,000 mg/kg

Damage/Eye Irritation

Skin No data available

Corrosion/Irritation

Inhalation No data available

Respiratory or Skin

Sensitization

Not available

Germ Cell Mutagenicity 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

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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.

No component of this product present at levels greater than or equal to 0.1% is identified as a **OSHA**

carcinogen or potential carcinogen by OSHA.

Reproductive

Toxicity

Not available

Specific Target Organ Toxicity

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

Repeated Exposure No data available

Signs and Symptoms of Exposure

The chemical, physical, and toxicological properties have not been thoroughly investigated.

Other Information

RTECS XF2285000

General Comments Not available

ECOLOGICAL INFORMATION 12

Toxicity

Persistance and

Degradability

Not available

Bioaccumulative

Potential

Not available

Mobility in Soil

Not available

PBT and vPvB

Not available

Assessment

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.

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MATERIAL SAFETY DATA SHEET

TRANSPORT INFORMATION

Transportation Information-DOT/IATA/IMDG

Special Shipping

Not dangerous goods.

Notes

15 REGULATORY INFORMATION

Regulatory Information

No known OSHA hazards

SARA

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

Component

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

Component

STATE REGULATIONS

Massachusetts No

Right to Know

Pennsylvania Right Yes

to Know

New Jersey Right

to Know

Yes

California

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

Proposition 65 defects, or any other reproductive harm.

Canada

DSL Status All components are on the Canadian DSL list.

16 OTHER INFORMATION

Manufacturer Disclaimer

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 07/01/11 Version Number