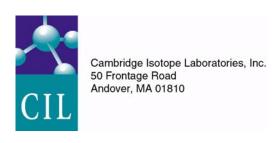
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MATERIAL SAFETY DATA SHEET

CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Description XENON (134XE, 99%)

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

GHS Label Information

Signal Word Warning

Hazards Identification Gas cylinder

Hazard Statement(s)

None

Precautionary Statement(s)

Store in a well-ventilated place.

Use personal protective equipment as required.

HMIS Ratings

Physical 0 Flammability 0 Health 0

Page 2 of 6



MATERIAL SAFETY DATA SHEET

NFPA Codes

Fire 0 Health 0 0 Reactivity

Potential Health Effects

Eyes Causes 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 the skin. Causes skin irritation.

COMPOSITION / INFORMATION ON INGREDIENTS 3

Composition / Information on Ingredients

Chemical Formula Xe Molecular Weight 133.90

CAS No. 7740-63-3 (unlabeled)

EC No. 231-172-7

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.

FIRE FIGHTING MEASURE 5

Fire Fighting Measures

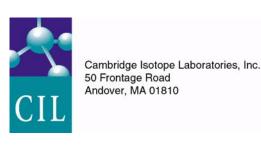
Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding

environment.

General Hazard The product itself does not burn.

Fire Fighting Equipment

Wear self contained breathing apparatus for fire fighting if necessary.



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MATERIAL SAFETY DATA SHEET

ACCIDENTAL RELEASE MEASURES

Accidental Release Measures

Personal Avoid breathing vapors, mist, or gas.

Precautions

Environmental Do not empty into drains.

Precautions

Wipe up with absorbent material (e.g. cloth, fleece). Methods and

materials for containment and

cleanup

7 HANDLING AND STORAGE

Conditions for Safe Storage

Storage Keep container tightly closed in a dry and well-ventilated place.

EXPOSURE CONTROL / PERSONAL PROTECTION

Personal Protecton

Wear safety glasses. Eyes - Face

Respiratory When appropriate, use NIOSH/CEN approved respirator.

Protective Clothing Wear suitable protective clothing and gloves.

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

Practices and at the end of workday.

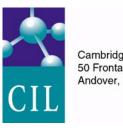
PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties (Unlabeled Compound)

Form Gaseous

рΗ No data available Melting Point No data available **Boiling Point** No data available

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

MATERIAL SAFETY DATA SHEET

Flashpoint Lower Explosion Not applicable No data available

Limit

Upper Explosion

No data available

Limit

Solubility in Water Auto Ignition

No data available No data available

Temperature

10 STABILITY AND REACTIVITY

Stability and Reactivity

Stable if stored under recommended conditions. **Chemical Stability**

11 **TOXICOLOGICAL INFORMATION**

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 *** - STATEMENT 942 ***

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.

ECOLOGICAL INFORMATION 12

Toxicity

Persistance and

Not available

Degradability



MATERIAL SAFETY DATA SHEET

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

UN Number 2036

Prop. Ship. Name Xenon, compressed

Hazard Class 2.2 Marine Pollutant No Poison Inhalation No

Hazard

15 **REGULATORY INFORMATION**

Regulatory Information

No known OSHA hazards.

SARA

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

Component

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

Component

STATE REGULATIONS

Massachusetts No

Right to Know

Pennsylvania Right Yes

to Know

New Jersey Right

Yes

to Know

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.



MATERIAL SAFETY DATA SHEET

Canada

DSL Status All components are on the Canadian DSL list.

Safety Statements

Keep container in a well-ventilated place.

In case of insufficient ventilation wear suitable respiratory equipment.

Risk Statements

None

16 OTHER INFORMATION

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

09/20/11

Version Number

1