



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

Number:
Issue Date

DLM-1235
08/22/11

Page 1 of 7

MATERIAL SAFETY DATA SHEET

1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Description 1-BROMOEICOSANE (D41, 97-98%)

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 1-800-322-1174 (8:30-5:30 EST)
Phone
Transportation 1-202-483-7616 (24 hours)

2 HAZARDS IDENTIFICATION

OSHA Hazards

No known OSHA hazards

GHS Label Information

Signal Word Warning

Hazards Identification

Flame

Hazard Statement(s)

Heating may cause a fire.

Precautionary Statement(s)

Do not breathe dust/fume/gas/mist/vapours/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
Dispose of contents/container to an approved waste disposal plant.

HMIS Ratings

Physical 0
Flammability 1
Health 0



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

Number:
Issue Date

DLM-1235
08/22/11

Page 2 of 7

MATERIAL SAFETY DATA SHEET

NFPA Codes

Fire	1
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.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Composition / Information on Ingredients

Synonyms	Eicosyl bromide
Chemical Formula	CD ₃ (CD ₂) ₁₉ Br
Molecular Weight	402.70
CAS No.	202480-71-5
EC No.	224-277-4

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 water.

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.



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

Number:
Issue Date

DLM-1235
08/22/11

Page 3 of 7

MATERIAL SAFETY DATA SHEET

6 ACCIDENTAL RELEASE MEASURES

Accidental Release Measures

Personal Precautions	Avoid dust formation.
Environmental Precautions	Do not empty into drains.
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.
---------	---

8 EXPOSURE CONTROL / PERSONAL PROTECTION

Personal Protection

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.
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	Powder
------	--------



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

Number:
Issue Date

DLM-1235
08/22/11

Page 4 of 7

MATERIAL SAFETY DATA SHEET

Color	White
pH	No data available
Melting Point	36 - 39 °C (97 - 102 °F) - lit
Boiling Point	No data available
Flashpoint	113 °C (235 °F) - closed cup
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Vapor Pressure	< 1 hPa (< 1 mmHg) at 20 °C (68 °F)
Solubility in Water	No data available
Auto Ignition Temperature	No data available

10 STABILITY AND REACTIVITY

Stability and Reactivity

Chemical Stability	Stable if stored under recommended conditions.
Conditions to Avoid	Not available
Hazardous decomposition products	Formed under fire conditions: Carbon oxides, Hydrogen bromide gas
Materials to avoid	Strong 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
Germ Cell Mutagenicity	Not available



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

Number:
Issue Date

DLM-1235
08/22/11

Page 5 of 7

MATERIAL SAFETY DATA SHEET

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 Not available

Specific Target Organ Toxicity

Single Exposure	No data available
Repeated Exposure	No data available

Signs and Symptoms of Exposure

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

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

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



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

Number:
Issue Date

DLM-1235
08/22/11

Page 6 of 7

MATERIAL SAFETY DATA SHEET

14 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

Sara 313 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

Canada

DSL Status Listed on the Canadian NDSL list.

EU

Hazard Flammable

Safety Statements

Do not breathe gas/fumes/vapour/spray.
Wear suitable protective clothing, gloves and eye/face protection.
This material and its container must be disposed of as hazardous waste.

Risk Statements

Risk of explosion by shock, friction, fire or other sources of ignition.

16 OTHER INFORMATION



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

Number:
Issue Date

DLM-1235
08/22/11

Page 7 of 7

MATERIAL SAFETY DATA SHEET

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

08/22/11
3