



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

Number:
Issue Date

DLM-1238
08/22/11

Page 1 of 7

MATERIAL SAFETY DATA SHEET

1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Description 1-BROMOEICOSANE (METHYL-D3, 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-1238
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 | $CD_3(CH_2)_{19}Br$ |
| Molecular Weight | 364.46 |
| CAS No. | 4276-49-7 (unlabeled) |
| 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-1238
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-1238
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-1238
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-1238
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-1238
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
2