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

MATERIAL SAFETY DATA SHEET

1 CHEMICAL PRODUCT AND COMPANY INFORMATION

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

2 HAZARDS IDENTIFICATION

OSHA Hazards
Irritant

GHS Label Information

Signal Word Warning

Hazards Identification
Exclamation mark

Hazard Statement(s)
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.

Precautionary Statement(s)
Avoid breathing dust/fume/gas/mist/vapours/spray
Wash skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with soap and water.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

MATERIAL SAFETY DATA SHEET

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses.
Call a POISON CENTER or doctor/physician if you feel unwell.

HMIS Ratings

Physical	0
Flammability	1
Health	2

NFPA Codes

Fire	1
Health	2
Reactivity	0

Potential Health Effects

Eyes	Causes eye irritation.
Ingestion	May be harmful if swallowed.
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through skin. Causes skin irritation.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Composition / Information on Ingredients

Synonyms	Dodecyl bromide. Lauryl bromide
Chemical Formula	CD3(CH2)11Br
Molecular Weight	252.25
CAS No.	143-15-7 (unlabeled)
EC No.	205-587-9

4 FIRST AID MEASURES

First Aid Measures

Eyes	Flush eye with water for 15 minutes. Get medical attention.
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.

MATERIAL 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 Precautions	Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental Precautions	Do not empty into drains.
Methods and materials for containment and cleanup	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7 HANDLING AND STORAGE

Precautions for Safe Handling

Handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. 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 Protecton

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 the work place.

MATERIAL SAFETY DATA SHEET

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	Clear, liquid
Color	Light yellow
pH	No data available
Melting Point	-11 - -9 °C (12 - 16 °F) - lit
Boiling Point	134 - 135 °C (273 - 275 °F) at 8 hPa (6 mmHg) - lit
Flashpoint	113 °C (235 °F) - closed cup
Lower Explosion Limit	No data available
Upper Explosion Limit	No data available
Vapor Density	8.61 - (Air = 1.0)
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, Strong bases

11 TOXICOLOGICAL INFORMATION

Acute Toxicity

MATERIAL SAFETY DATA SHEET

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
IARC	No component of the 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	Inhalation - May cause respiratory irritation
Repeated Exposure	No data available

Signs and Symptoms of Exposure

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

Other Information

General Comments	Not available

12 ECOLOGICAL INFORMATION

Toxicity

Persistance and Degradability	Not available
Bioaccumulative Potential	Not available

MATERIAL SAFETY DATA SHEET

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.

14 TRANSPORT INFORMATION

Transportation Information-DOT/IATA/IMDG

Special Shipping Notes	Not dangerous goods.

15 REGULATORY INFORMATION

Regulatory Information

Irritant

SARA

Sara 302 Component	
Sara 313 Component	No chemicals in this material are subject to the reporting requirements.

SARA 311/312 Hazards

Acute (Y/N)	Y

STATE REGULATIONS

Massachusetts Right to Know	No
Pennsylvania Right	Yes

MATERIAL SAFETY DATA SHEET

to Know	
New Jersey Right to Know	Yes
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	All components are on the Canadian DSL list.

EU

Hazard	Irritant

Safety Statements

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Wear suitable protective clothing.

Risk Statements

Irritating to eyes, respiratory system and skin.

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	01/06/11
Version Number	1