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# **MATERIAL SAFETY DATA SHEET**

#### CHEMICAL PRODUCT AND COMPANY INFORMATION

1-BROMOPENTANE (METHYL-D3, 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**

Flammable liquid, Irritant

### **GHS Label Information**

Signal Word Warning

### Hazards Identification

Flame

**Exclamation mark** 

### Hazard Statement(s)

Flammable liquid and vapour.

Causes skin irritation.

Causes serious eye irritation.

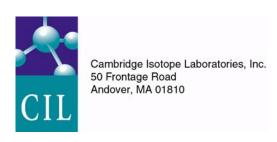
May cause respiratory irritation.

### Precautionary Statement(s)

Avoid breathing dust/fume/gas/mist/vapours/spray.

IF IN EYES: Rinse with water for several minutes. Remove contact lenses.

**HMIS Ratings** 



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## **MATERIAL SAFETY DATA SHEET**

Physical 0 Flammability 3 Health 2

NFPA Codes

Fire 3 2 Health 0 Reactivity

#### Potential Health Effects

Eyes Causes eye irritation. Ingestion May be harmful if swallowed.

May be harmful if inhaled. Causes respiratory tract irritation. Inhalation Skin May be harmful if absorbed through skin. Causes skin irritation.

#### **COMPOSITION / INFORMATION ON INGREDIENTS** 3

#### Composition / Information on Ingredients

Synonyms Pentyl bromide. n-Amyl bromide

Chemical Formula CD3(CH2)4Br Molecular Weight 154.06 CAS No. 110-53-2 EC No. 203-776-0

### **FIRST AID MEASURES**

#### First Aid Measures

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

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth Ingestion

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

Information



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#### 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.

Fire Fighting

Use water spray to cool unopened containers.

Procedures

#### **6 ACCIDENTAL RELEASE MEASURES**

#### Accidental Release Measures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for

containment and

Contain spillage, then collect with non-combustible absorbent material. Disposal should be in

accordance with applicable Federal, State and local regulations.

cleanup

#### 7 HANDLING AND STORAGE

Precautions for Safe Handling

Handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of

ignition - No smoking. Take measures to prevent build up of electrostatic charge.

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.

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Skin Choose body protection according to the amount and concentration of the dangerous substance at

the work place.

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 Clear, liquid

Color Light yellow

рΗ No data available Melting Point - 95 °C (139 °F) - lit **Boiling Point** 130 °C (266 °F) - lit 32 °C (90 °F) - closed cup Flashpoint

Lower Explosion

Limit

No data available

Upper Explosion

No data available

Limit

Vapor Density 5.22 - (Air = 1.0)

Density 1.218 g/mL at 25 °C (77 °F)

Solubility in Water No data available No data available Auto Ignition

Temperature

#### STABILITY AND REACTIVITY 10

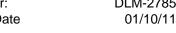
Stability and Reactivity

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

Possibility of Hazardous Reactions

Vapors may form explosive mixture with air.

Conditions to Avoid Avoid Heat, Flames and Sparks.





## **MATERIAL SAFETY DATA SHEET**

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** 

Serious No data available

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 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 identified 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

Not available

**Toxicity** 

Specific Target Organ Toxicity

Single Exposure Inhalation - may cause respiratory irritation

Repeated Exposure No data available

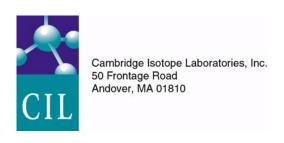
Signs and Symptoms of Exposure

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

Other Information

**RTECS** RZ9770000

General Comments Not available



## **MATERIAL SAFETY DATA SHEET**

#### 12 ECOLOGICAL INFORMATION

**Toxicity** 

Persistance and Degradability Not available

Bioaccumulative

uialive

Not available

Mobility in Soil

Potential

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

UN Number 1993

Proper Shipping Flammable liquids, n.o.s., (1-Bromopentane)

Name

Hazard Class 3
Packing Group III
Marine Pollutant No
Poison Inhalation No

Hazard

#### 15 REGULATORY INFORMATION

Regulatory Information

Flammable liquid, Irritant



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## **MATERIAL SAFETY DATA SHEET**

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

SARA 311/312 Hazards

Fire (Y/N) Υ

Acute (Y/N) Υ

STATE REGULATIONS

Massachusetts Yes

Right to Know

Pennsylvania Right Yes

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.

ΕU

Flammable. Irritant. Hazard

Safety Statements

Keep away from sources of ignition - No smoking.

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

Wear suitable protective clothing and gloves.

Wear eye/face protection.

Risk Statements

Explosive when dry.

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.



# **MATERIAL SAFETY DATA SHEET**

Approved On Version Number 01/10/11