



## **MEDICAL ISOTOPES, Inc.**

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### **SAFETY DATA SHEET**

#### **SECTION 1. Identification**

**Product:**

Product Name: Acetylcholine-1,1,2,2-d<sub>4</sub> Bromide  
Catalog number: D311

**Supplier:**

Medical Isotopes, Inc.  
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Pelham, NH 03076 USA  
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Email: [info@medicalisotopes.com](mailto:info@medicalisotopes.com)

**Suitability:**

For laboratory use only.

#### **SECTION 2. Hazard(s) identification**

**Hazard classification:**

Skin irritation (Category 2), H315  
Eye irritation (Category 2A), H319  
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

**Signal Word:**

Warning

**Hazard Statements:**

H315 Causes skin irritation.  
H319 Causes eye irritation.  
H335 May cause respiratory irritation.

**Pictogram:**



**Precautionary Statements:**

P264 Wash skin thoroughly after handling.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.

**Other hazards:**

None

#### **SECTION 3. Composition/Information on Ingredients**

**Chemical name:**

(2-Acetoxyethyl)trimethylammonium-1,1,2,2-d<sub>4</sub> Bromide

**Synonyms:**

2-(Acetyloxy)-N,N,N-trimethylethanaminium-1,1,2,2-d<sub>4</sub> Bromide

**CAS number:**

93449-31-1

**Impurities/Additives:**

N/A

#### **SECTION 4. FIRST AID MEASURES**

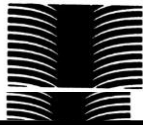
**Skin Contact:** Wash with soap and water for several minutes. Consult a physician.

**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Inhalation:** Remove from exposure and move to fresh air immediately. Consult a physician.

**Eye Contact:** Rinse thoroughly with plenty of water. Consult a physician.

#### **SECTION 5. FIRE FIGHTING MEASURES**



## **MEDICAL ISOTOPES, Inc.**

### **Suitable extinguishing media**

Use water spray, foam, dry chemical or carbon dioxide.

### **Special protective equipment for firefighters**

Wear self contained breathing apparatus for fire-fighting if necessary.

**Hazardous combustion products:** Carbon oxides, nitrogen oxides, hydrogen bromide gas.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Make sure to wear appropriate protective equipment as listed in section 8. Avoid breathing dust, vapors, or mists.

**Spill Clean-up Methods:** Clean up spills immediately, observing precautions in the Protective Equipment section. Cover with a non-combustible material (e.g. sand, earth, diatomaceous earth), sweep up, and place into a suitable container for disposal. Avoid breathing the resulting dust.

## **SECTION 7. HANDLING & STORAGE**

**Usage/Handling Precautions:** Make sure to wear appropriate PPE as listed in section 8. Avoid contact with skin and eyes.

**Storage Conditions:** Keep tightly closed in a dry and well-ventilated place. Store at room temperature.

## **SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION**

**Engineering Controls:** Use fumehood if available.

### **Personal Protective Equipment**

**Eyes:** Always wear safety glasses when working with chemicals. Wear chemical goggles when working with liquids.

**Skin:** Wear protective gloves and a lab coat to prevent skin exposure.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** White Crystals

**Odor:** N/A

**pH:** N/A

**Melting Point:** 144-146 °C

**Water Solubility (%):** N/A

**Flash Point (°C):** N/A

**Vapor pressure:** N/A

**Autoignition Temperature (°C):** N/A

**Flammability Limits in Air (% by Vol.):** N/A

## **SECTION 10. STABILITY & REACTIVITY**

**Reactivity:** N/A

**Chemical Stability:** Stable under recommended storage conditions

**Conditions to Avoid:** Strong oxidizing/reducing agents, bases.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

**Inhalation:** N/A

**Ingestion:** N/A

**Skin and eye contact:** N/A

**Other:** LD50 subcutaneous – mouse 170 mg/kg

## **SECTION 12. ECOLOGICAL INFORMATION**

N/A

## **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal Procedures:** Via licensed disposal company. Dispose of according to federal, state/province and local regulations.

## **SECTION 14. TRANSPORT INFORMATION**

Not dangerous goods.

## **SECTION 15. REGULATORY INFORMATION**

N/A



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**SECTION 16. OTHER INFORMATION**

Preparation information: Last revised on 7/8/2015.

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