



## MEDICAL ISOTOPES, Inc.

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### SAFETY DATA SHEET

#### SECTION 1. Identification

**Product:**

Product Name: 1,4-Butane-d8-diamine  
Catalog number: D3370

**Supplier:**

Medical Isotopes, Inc.  
100 Bridge Street  
Pelham, NH 03076 USA  
Tel: +1-603-635-2255 Fax: +1-603-635-2448  
Email: [info@medicalisotopes.com](mailto:info@medicalisotopes.com)

**Suitability:**

For laboratory use only.

**Emergency Contact Information:**

Call Chemtrec 24/7  
DOMESTIC NORTH AMERICA 800-424-9300  
INTERNATIONAL, CALL 703-527-3887 (collect calls accepted)

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

**Hazard classification:**

Corrosive to Metals (Category 1), H290  
Acute toxicity, Oral (Category 4), H302  
Acute toxicity, Inhalation (Category 2), H330  
Acute toxicity, Dermal (Category 3), H311  
Skin corrosion (Category 1B), H314  
Serious eye damage (Category 1), H318

**Signal Word:**

Danger

**Hazard Statements:**

H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H311 Toxic in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H330 Fatal if inhaled.

**Pictogram:****Precautionary Statements:**

P234 Keep only in original container.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P284 Wear respiratory protection.  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P362 Take off contaminated clothing and wash before reuse.  
P390 Absorb spillage to prevent material damage.



## MEDICAL ISOTOPES, Inc.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P406 Store in corrosive resistant container with a resistant inner liner.  
P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards:

None

### SECTION 3. Composition/Information on Ingredients

#### Chemical name:

1,4-Butane-d8-diamine

#### Synonyms:

N/A

#### CAS number:

709608-92-4

#### 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

#### 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.

### 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:** Room temp; well ventilated space

### SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

**Engineering Controls:** Use fume hood 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:** Liquid

**Odor:** N/A

**pH:** N/A

**Melting Point:** N/A

**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



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### SECTION 10. STABILITY & REACTIVITY

**Reactivity:** N/A

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

**Conditions to Avoid:** Strong oxidizing agents.

### SECTION 11. TOXICOLOGICAL INFORMATION

**Inhalation:** LC50 Inhalation – Rat - 4 h - 877 – 1,131 mg/l

**Ingestion:** LD50 Oral - Rat - 740 mg/kg

**Skin and eye contact:** LD50 Dermal - Rabbit - 1,576 mg/kg

**Other:** N/A

### SECTION 12. ECOLOGICAL INFORMATION

Toxicity to fish: static test LC50 - *Poecilia reticulata* (guppy) - 730 mg/l - 96 h

### SECTION 13. DISPOSAL CONSIDERATIONS

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

### SECTION 14. TRANSPORT INFORMATION

DOT (US)

Shipping name: Corrosive liquid, flammable, n.o.s. (1,4-Butanediamine)

UN number: UN2920

Class: 8 (3)

Packaging group: II

IMDG

Shipping name: Corrosive liquid, flammable, n.o.s. (1,4-Butanediamine)

UN number: UN2920

Class: 8 (3)

Packaging group: II

IATA

Shipping name: Corrosive liquid, flammable, n.o.s. (1,4-Butanediamine)

UN number: UN2920

Class: 8 (3)

Packaging group: II

### SECTION 15. REGULATORY INFORMATION

N/A

### SECTION 16. OTHER INFORMATION

Preparation information: Last revised on: 9/16/2022

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