



## **MEDICAL ISOTOPES, Inc.**

100 Bridge Street, Pelham, NH 03076, USA

Tel: (603) 635-2255 Toll Free: (800) 374-9513 Fax: (603) 635-2448

E-mail: [info@medicalisotopes.com](mailto:info@medicalisotopes.com) Internet: [www.medicalisotopes.com](http://www.medicalisotopes.com)

### **SAFETY DATA SHEET**

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

**Product:**

Product Name: Cyclophosphamide Monohydrate  
Catalog number: 17429

**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.

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

**Hazard classification:**

Acute toxicity, Oral (Category 3), H301  
Carcinogenicity (Category 1B), H350

**Signal Word:**

Danger

**Hazard Statements:**

H301 Toxic if swallowed.  
H350 May cause cancer.

**Pictogram:**



**Precautionary Statements:**

P264 Wash skin thoroughly after handling.  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P330 Rinse mouth.

**Other hazards:**

None

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

**Chemical name:**

2-[Bis(2-chloroethyl)amino]tetrahydro-2H-1,3,2-oxazaphosphorine 2-oxide

**Synonyms:**

Cyclophosphamide monohydrate; Cytotoxan

**CAS number:**

6055-19-2

**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, phosphorous oxides, hydrogen chloride 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 and store at 2-8 °C.

## 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 Crystalline

**Odor:** N/A

**pH:** N/A

**Melting Point:** 49-51 °C

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

**Flash Point (°C):** 113

**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 agents, strong acids, strong bases.

## SECTION 11. TOXICOLOGICAL INFORMATION

**Inhalation:** N/A

**Ingestion:** LD50 oral – rat 94 mg/kg

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

**Other:** N/A

## 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

**IATA**

**UN number:** 3464

**Class:** 6.1

**Packing group:** III

**Proper shipping name:** Organophosphorus compound, solid, toxic, n.o.s. (Cyclophosphamide monohydrate)

## SECTION 15. REGULATORY INFORMATION

N/A



***MEDICAL ISOTOPES, Inc.***

**SECTION 16. OTHER INFORMATION**

Preparation information: Last revised on 6/30/2015.

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. MEDICAL ISOTOPES, INC. SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.