

# Cyclophosphamide-d4: sc-211153



*The Power to Question*

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Cyclophosphamide-d4

**Product Number:** sc-211153

**Supplier:** Santa Cruz Biotechnology, Inc.  
2145 Delaware Avenue  
Santa Cruz, CA 95060  
800.457.3801 or 831.457.3800

**Emergency:** ChemWatch  
Within the US & Canada: 877-715-9305  
Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

### 2. HAZARDS IDENTIFICATION

**Classification of the Substance or Mixture and Label Elements**

**GHS Hazards Classification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)**

Acute toxicity, Oral (Category 3)

Carcinogenicity (Category 1B)

**GHS Hazards Identification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)**

Pictogram



Signal Word

Danger

#### GHS Hazard Statements

H301

Toxic if swallowed.

H350

May cause cancer.

#### GHS Precautionary Statements

P201

Obtain special instructions before use.

P301/310

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

#### HMIS Classification

**Health Hazard:**

2

**Chronic Health Hazard:**

\*

**Flammability:**

1

**Physical Hazards:**

0

#### WHMIS Classification (Canada)

D1B

Toxic material causing immediate and serious toxic effects.

D2A

Toxic by ingestion, teratogen, carcinogen.

#### Potential Health Effects

**Inhalation**

May be harmful if inhaled. May cause respiratory tract irritation.

**Skin**

May be harmful if absorbed through the skin. May cause skin irritation.

**Eyes**

May cause eye irritation.

**Ingestion**

Toxic if swallowed.

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

**Formula:** C7H11D4Cl2N2O2P

**Chemical Weight:** 265.11

**CAS #:** 173547-45-0

## 4. FIRST AID MEASURES

### General Advice

Consult a physician. If medical attention is required, show this safety data sheet to the doctor. Move out of the dangerous area.

### If Inhaled

If inhaled, move person to fresh air. If not breathing, give artificial respiration and consult a physician.

### In Case of Skin Contact

Wash affected area with soap and water. Consult a physician.

### In Case of Eye Contact

Immediately rinse eyes with plenty of water for at least 15 minutes. Consult a physician.

### If Swallowed

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

## 5. FIREFIGHTING MEASURES

### Suitable extinguishing media

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

### Advice for Firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Use recommended personal protective equipment (see Section 8). Prevent the formation of dusts and mists.

Avoid breathing vapors.

### Environmental Precautions

Do not let product enter drains.

### Methods and Materials for Containment and Cleaning Up

Contain the spill and then collect using non-combustible absorbent material (such as clay, diatomaceous earth, vermiculite or other appropriate material). Place material in a suitable, sealable container and then dispose according to local/national regulations and guidance (see Section 13). Keep in suitable closed containers for disposal.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Avoid contact with skin and eyes. Avoid formation of dust or aerosols. Provide appropriate exhaust ventilation at places where dust/aerosol is formed. Normal measures for preventative fire protection.

### Conditions for Safe Storage, Including any Incompatibilities

Keep container tightly closed in a dry and well ventilated place. Store at -20°C.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no components with established occupational exposure limits.

### Appropriate Engineering Controls

A laboratory fumehood or other appropriate form of local exhaust ventilation should be used to avoid exposure.

### Personal Protective Equipment

#### Respiratory Protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand Protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye Protection

Face shield or safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin and Body Protection

Complete suit protecting against chemicals, if needed after risk assessment. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Solid	Odor	No data available
Odor Threshold	No data available	pH	No data available
Melting Point/Freezing Point	41-45 °C	Boiling Point/Boiling Range	No data available
Flash point	No data available	Evaporation Rate	No data available
Flammability (Solid/Gas)	No data available	Upper/Lower Explosive Limits	No data available
Vapor Pressure	No data available	Vapor Density	No data available
Relative Density	No data available	Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available	Viscosity	No data available
Explosive Properties	No data available	Oxidizing Properties	No data available
Solubility	No data available		

## 10. STABILITY AND REACTIVITY

### Chemical Stability

Stable under recommended storage conditions.

### Conditions to Avoid

No data available

### Incompatible Materials

Strong oxidizing materials.

### Hazardous Decomposition Products

Hazardous decomposition product formed under fire conditions: carbon oxides, nitrogen oxides, phosphorus oxides, hydrogen chloride

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

LD50 (oral - rat) 94 mg/kg

LD50 (oral - mouse) 350 mg/kg

LD50 (oral - dog) 44 mg/kg

### Corrosion/Irritation

no data available

### Sensitization

no data available

### Carcinogenicity

IARC: 1 - Group 1: Carcinogenic to humans (Cyclophosphamide monohydrate)

### Reproductive Toxicity/Teratogenicity

May cause congenital malformation in the fetus.

### Potential Health Effects

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Skin</b>	May be harmful if absorbed through the skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.
<b>Ingestion</b>	Toxic if swallowed.

### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties of this material have not been thoroughly investigated.

### Additional Information

RTECS: RP6157750

## 12. ECOLOGICAL INFORMATION

### Toxicity

no data available

### Bioaccumulative potential

no data available

### PBT and vPvB assessment

no data available

### Persistence and degradability

no data available

### Mobility in soil

no data available

### Other adverse effects

no data available

## 13. DISPOSAL CONSIDERATIONS

### Product

Offer surplus and non-recyclable solutions to licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

### Contaminated Packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

### DOT (US)

UN-Number: 3464

Class: 6.1

Packing group: III

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

Reportable Quantity (RQ): 10 lbs

Marine pollutant: No

Poison Inhalation Hazard: No

### IMDG

UN-Number: 3464

Class: 6.1

Packing group: III

Proper shipping name: ORGANOPHOSPHORUS COMPOUND, TOXIC, SOLID, N.O.S. (Cyclophosphamide monohydrate)

Marine pollutant: No

### IATA

UN-Number: 3464

Class: 6.1

Packing group: III

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

## 15. REGULATORY INFORMATION

### Canada-DSL/NDSL Status

Product is on the Canadian DSL/NDSL.

### WHMIS Classification

D1B

Toxic material causing immediate and serious toxic effects.

D2A

Toxic by ingestion, teratogen, carcinogen.

## 16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

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