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 Washington, DC 20001  
[www.edvotek.com](http://www.edvotek.com)

## Safety Data Sheet

Version 2  
 Revision Date 10/24/2014

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Cadmium chloride	Telephone:	1-800-338-6835
Product Number:		or 202-370-1500
Brand: Edvotek	Fax:	202-370-1501
Supplier: Edvotek		Emergency Phone #:
1121 5 <sup>th</sup> Street NW		202-370-1500
Washington, DC		
20001		

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

#### OSHA Hazards

Acute toxicity oral and inhalation  
 germ cell mutagenicity,  
 carcinogenicity, reproductive toxicity,  
 acute aquatic toxicity, chronic aquatic  
 toxicity.

Acute aquatic toxicity 1  
 Chronic aquatic toxicity 1

#### Signal Word

Danger

#### GHS Classification

Acute toxicity, Oral 3  
 Acute toxicity, Inhalation 2  
 Germ cell mutagenicity 1  
 Carcinogenicity 1  
 Reproductive toxicity 1

#### Pictogram



**Hazard statement(s)**

**H301** Toxic if swallowed.  
**H340** May cause genetic defects.  
**H350** May cause cancer.  
**H360** May damage fertility or the unborn child.  
**H372** Causes damage to organs through prolonged or repeated exposure.  
**H410** Very toxic to aquatic life with long lasting effects.

**Precautionary statement(s)**

**P264** Wash skin thoroughly after handling.  
**P270** Do not eat, drink or smoke when using this product.  
**P273** Avoid release to the environment.  
**P281** Use personal protective equipment as required.  
**P284** Wear respiratory protection.  
**P301 + P310 IF SWALLOWED:** Immediately call a POISON CENTER or doctor/ physician.  
**P310** Immediately call a POISON CENTER or doctor/ physician.

**P330** Rinse mouth.  
**P391** Collect spillage.  
**P403 + P233** Store in a well-ventilated place. Keep container tightly closed.  
**P405** Store locked up.  
**P501** Dispose of contents/ container to an approved waste disposal plant.

**HMIS Classification:**

Health hazard: 4  
Flammability: 0  
Physical hazard: 0

**NFPA Rating:**

Health hazard: 4  
Fire: 0  
Reactivity Hazard: 0

**Potential Health Effects:**

**Inhalation** Harmful if inhaled.  
**Skin** Causes skin irritation.  
**Eyes** Causes eye burns.  
**Ingestion** Toxic if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula :  $\text{CdCl}_2$

Molecular weight : 183.32 g/mol

Chemical name	EC No.	CAS –No	Concentration
Cadmium chloride	233-296-7	10108-64-2	100 mM

### 3. FIRST AID MEASURES

#### General information

No special measures required.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult doctor in case of complaints.

#### In case of skin contact

Immediately wash off with soap and plenty of water. Get medical attention if symptoms develop.

#### In case of eye contact

Flush eyes with water as a precaution. Get medical attention immediately if irritation persists.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention if symptoms develop.

### 4. FIREFIGHTING MEASURES

#### Conditions of flammability

Not flammable or combustible.

#### Suitable extinguishing media

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

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

Wear self contained breathing apparatus for fire fighting if necessary.

### **Hazardous combustion products**

Hydrogen chloride gas, Cadmium/cadmium oxides

## **5. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions**

Prevent skin/eye contact. Use personal protective equipment as needed.

### **Environmental precautions**

Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

### **Methods and materials for containment and cleaning up**

Clean up spills immediately. Use absorbent materials if needed and dispose into a chemical waste container.

## **6. HANDLING AND STORAGE**

### **Precautions for safe handling**

Avoid contact with skin and eyes. Good laboratory technique should be used when handling.

### **Conditions for safe storage**

No special measures necessary. Store at room temperature.

### **Incompatible Products**

No known products

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

### Personal protective equipment

#### Respiratory protection

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Wear protective gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices

#### Eye protection

Avoid eye contact with this material. Wear chemical safety goggles.

#### Skin and body protection

Use chemical gloves as needed. Use clean protective body covering clothing as needed to minimize contact with clothing and skin.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash and dry hands at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	colorless
Odor	no data available

### Safety data

pH	no data available
Melting point/freezing point	no data available
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Autoignition Temperature	no data available
Lower explosion limit	no data available

Upper explosion limit	no data available
Vapour pressure	no data available
Density (water=1)	no data available
Water solubility	no data available
Partition coefficient:	
n-octanol/water	no data available
Relative vapour Density	no data available
Odour Threshold	no data available
Evaporation rate	no data available

## 10. STABILITY AND REACTIVITY

### **Chemical stability**

Stable under recommended storage conditions.

### **Possibility of hazardous reactions**

No further relevant data available

### **Conditions to avoid**

No further relevant data available

### **Materials to avoid**

Oxidizing agents, Bromine trifluoride

### **Hazardous decomposition products**

No dangerous decomposition products

## 11. TOXICOLOGICAL INFORMATION

### **Acute toxicity LD/LC50 values**

no data available

### **Serious eye damage/eye irritation**

no data available

### **Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

**Skin corrosion/irritation**

no data available

**Carcinogenicity**

No components of this product are listed by IARC, ACGIH, NTP and OSHA.

**Reproductive toxicity**

no data available

**Teratogenicity**

no data available

**Aspiration hazard**

no data available

**Synergistic effects**

no data available

**12. ECOLOGICAL INFORMATION**

**Toxicity**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

no data available

### 13. DISPOSAL CONSIDERATIONS

**Product**

Dispose of unused product, residues, and containers according to local, regional, state, and national regulations.

**Contaminated packaging**

Dispose of as unused product.

### 14. TRANSPORT INFORMATION

**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

### 15. REGULATORY INFORMATION

**OSHA Hazards**

Acute toxicity oral and inhalation, germ cell mutagenicity, carcinogenicity, reproductive toxicity, acute aquatic toxicity, chronic aquatic toxicity.

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

No SARA Hazards.

## **16. OTHER INFORMATION**

For educational use only. Not intended for human or animal diagnostic or therapeutic uses.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.