1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Cadmium chloride
Product Number: 
Brand: Edvotek
Supplier: Edvotek

1121 5th Street NW
Washington, DC 20001
Telephone: 1-800-338-6835 or 202-370-1500
Fax: 202-370-1501
Emergency Phone #: 202-370-1500

2. HAZARDS IDENTIFICATION

Emergency Overview
OSHA Hazards
Acute toxicity oral and inhalation germ cell mutagenicity, carcinogenicity, reproductive toxicity, acute aquatic toxicity, chronic aquatic toxicity.

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

Acute aquatic toxicity 1
Chronic aquatic toxicity 1

Signal Word
Danger

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 : CdCl$_2$
Molecular weight : 183.32 g/mol

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>EC No.</th>
<th>CAS –No</th>
<th>Concentration</th>
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<tbody>
<tr>
<td>Cadmium chloride</td>
<td>233-296-7</td>
<td>10108-64-2</td>
<td>100 mM</td>
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</tbody>
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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.