

LTS Research Laboratories, Inc. Safety Data Sheet

Cadmium Chloride Hydrate

1. Product and Company Identification

Trade Name: Cadmium Chloride Hydrate

Chemical Formula: CdCl₂. xH₂O

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Danger



Hazard Statements: H301: Toxic if swallowed

H330: Fatal if inhaled

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 Statements: P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and

understood.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash face, hands, and any exposed skin thoroughly after

handling.

P271 Use only outdoors or in a well ventileted erec

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

 $P280\ Wear\ protective\ gloves/\ protective\ clothing/\ eye\ protection/\ face$

protection.

P281: Use personal protective equipment as required

P284 Wear respiratory protection.

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON

CENTER/doctor. Rinse mouth.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON

CENTER/doctor.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

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 Health Ratings (0-4):

Eyes:

Health: 4
Flammability: 0
Physical: 0

3. Composition

Chemical Family: Inorganic Additional Names: N/A

Cadmium Chloride Hydrate (CdCl₂.xH₂O):

Percentage: 100 wt% CAS #: 654054-66-7 EC #: 233-296-7

4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None Important Symptoms: None

Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult. Do

not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical

device.

Immediate medical attention is required.

Ingestion: Give one to two glasses of water. Never induce vomiting or give

anything by mouth to an unconscious person. Seek medical attention

immediately.

Skin: Wash affected area with mild soap and water. Remove any

contaminated clothing. Seek medical attention if symptoms persist. Flush eyes with water, blinking often for several minutes. Remove

contact lenses if present and easy to do. Continue rinsing. Seek medical $\,$

attention if symptoms persist.

5. Firefighting Measures

Flammability: Non-flammable

Extinguishing Media: No special restrictions – use suitable extinguishing agent for

surrounding material and type of fire. Do not use water for metal fires -

use CO₂, sand, extinguishing powder.

Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective

clothing to prevent contact with skin and eyes. See section 10 for

decomposition products.

6. Accidental Release Measures

If Material Is Released/Spilled: Wear appropriate respiratory and protective equipment specified in

special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal.

Take care not to raise dust.

Environmental Precautions: Isolate runoff to prevent environmental pollution.

7. Handling and Storage

Handling Conditions: Wash thoroughly after handling.

Storage Conditions: Store in a cool dry place in a tightly sealed container. Store apart from

materials and conditions listed in section 10.

Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before

eating and smoking. Do not blow dust off clothing or skin with

compressed air.

Ventilation: Provide sufficient ventilation to maintain concentration at or below

threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 0.005 as CdCl₂, long-term value Threshold Limit Value: 0.002 as CdCl₂, long-term value

Special Equipment: None

Respiratory Protection:
Protective Gloves:

Dust Respirator
Rubber gloves

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color White

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: Odorless

Water Solubility:
Boiling Point:
Melting Point:

N/A

Soluble

N/A

N/A

Flash Point: N/A
Autoignition Temperature: N/A

Density: N/A

Molecular weight: 183.32 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Strong oxidizing agents

Incompatible Conditions: Avoid incompatible products, moisture, and air

Hazardous Decomposition Products: Metal oxide fume, Hydrogen chloride gas, Cadmium/cadmium oxides

11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation
Skin: May cause irritation
Ingestion: May cause irritation
Inhalation: May cause irritation

Chronic: N/A

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

Carcinogen: Carcinogenic to humans (Cadmium chloride hydrate)

12. Ecological Information

Aquatic Toxicity: Very toxic to aquatic organisms, may cause long-term adverse effects

in the aquatic environment.

Persistent Bioaccumulation Toxicity:

Very Persistent, Very Bioaccumulative:

Notes:

Soluble in water Persistence is unlikely based on information available.

N/A

Will likely be mobile in the environment due to its water solubility.

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous:

Hazardous for transportation



Hazard Class: 6.1 Cadmium compounds

Packing Group:

UN Number: UN2570

Proper Shipping Name: Cadmium compounds (Cadmium Chloride Hydrate)

15. Regulatory	Information
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Sec 302 Extremely Hazardous:NoSec 304 Reportable Quantities:N/ASec 313 Toxic Chemicals:Yes

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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