

## LTS Research Laboratories, Inc. Safety Data Sheet Cadmium Chloride

1. Product and Company Identification		
Trade Name:	Cadmium chloride	
Chemical Formula:	$CdCl_2$	
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	
Precautionary Statements:	P260: Do not breathe dust/fume/gas/mist/vapours/spray	
	P284: Wear respiratory protection	
	P301+P310: IF SWALLOWED: Immediately call a POISON CENTE	
	or doctor/physician	
	P320: Specific treatment is urgent	
	P405: Store locked up	
	P501: Dispose of contents/container in accordance with local/regional/national/international regulations	
HMIS Health Patings (0.4).		
HMIS Health Ratings (0-4): Health:	3	
Health:	3	
	3 0 1	

3. Composition		
Salt		
Cadmium dichloride, Cadmium(II) chloride		
100 wt%		
10108-64-2		
233-296-7		
4. First Aid Procedures		
Seek medical attention if symptoms persist.		
None		
None		
Remove victim to fresh air. Supply oxygen if breathing is difficult.		
Seek immediate medical attention. Remove breathing apparatus only		
after contaminated clothing has been completely removed.		
Do not induce vomiting. Seek immediate medical attention.		
Wash affected area with mild soap and water. Seek immediate medical		
attention. Remove any contaminated clothing.		
Flush eyes with water, blinking often for several minutes. Remove		
contact lenses if present and easy to do. Continue rinsing		
5. Firefighting Measures		
Non-flammable		
No special restrictions - use suitable extinguishing agent for		
surrounding material and type of fire.		
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		
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.		
Isolate runoff to prevent environmental pollution.		
7. Handling and Storage		
Wash thoroughly after handling.		
Store in a cool dry place in a tightly sealed container. Store under inert		
gas. Store apart from materials and conditions listed in section 10.		
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.		
Provide sufficient ventilation to maintain concentration at or below		
threshold limit.		

Permissible Exposure Limits:	$0.0005 \text{ mg/m}^3$ as Cd, long-term value
Threshold Limit Value:	$0.01 \text{ mg/m}^3$ as Cd, long-term value
	$0.002 \text{ mg/m}_3$ as Cd; respirable fraction.
Special Equipment:	None
Respiratory Protection:	Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.
Protective Gloves:	Butyl rubber, BR gloves
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.

Color	White
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Odorless
Water Solubility:	Soluble
Boiling Point:	960 °C
Melting Point:	568 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	4.047 g/cc
Molecular weight:	183.306 g/mol
	- Research
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Water, Oxidizing agents
Incompatible Conditions:	Water/moisture

Incompatible Conditions: Hazardous Decomposition Products:

Water/moisture Hydrogen chloride

## 11. Toxicological Information

Potential Health Effects:	
Eyes:	May cause irritation
Skin:	May cause irritation
Ingestion:	Toxic
Inhalation:	Fatal
Chronic:	Causes damage to the lung, the kidneys, the liver, the heart, the digestive system, the blood, the brain, the endocrine system and the musculoskeletal system through prolonged or repeated exposure. Route of exposure: Oral, Inhalative.
Reproductive toxicity:	May damage fertility or the unborn child. May cause genetic defects.
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	88 mg/kg for rat by mouth
Carcinogen:	Causes cancer
	IARC-1: carcinogenic to humans: sufficient evidence of carcinogenicity.
	EPA-B1: Probable human carcinogen, limited evidence of
	carcinogenicity from epidemiologic studies
	ACGIH A2: Suspected human carcinogen: Agent is carcinogenic in
	experimental animals at dose levels, by routes of administration, at
	sites, of histologic types, or by mechanisms considered relevant to
	worker exposure. Available epidemiologic studies are conflicting or insufficient to confirm an increased risk of cancer in exposed humans.
	Research
	12. Ecological Information
Aquatic Toxicity:	High
Persistent Bioaccumulation Toxicity	No

Aquatic Toxicity:	High
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	Very toxic for aquatic organism.
	May cause long lasting harmful effect on aquatic life.
	Do not allow material to be released to the environment without proper governmental permits.
	Do not allow product to reach any water sources.
	Danger to drinking water if even extremely small quantities leak into
	the ground.
	13. Disposal Considerations

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

	14. Transportation Data		
Hazardous:	Hazardous for transportation		
	POISON 6		
Hazard Class:	6.1 Toxic substances.		
Packing Group:	III		
UN Number:	UN2570		
Proper Shipping Name:	Cadmium compounds (cadmium chloride)		
	15. Regulatory Information		
Sec 302 Extremely Hazardous:	No		
0 204 D (11 0 ())	N/A		
Sec 304 Reportable Quantities:			

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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