

XI'AN FUNCTION MATERIAL GROUP CO., LTD 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:	XI'AN FUNCTION MATERIAL GROUP CO.,LTD
Street:	No.69, Gazelle Valley, High-Tech Zone
City:	XI'AN
State:	Shannxi
Zip Code:	710077
Country:	China
Tel #:	+86-29-88993870/+86-13519132051
	2. Hazards Identification
Signal Word:	Danger
Hazard Statements:	H301: Toxic if swallowed
mazaru Statements.	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 CENTER
	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 Ratings (0-4):	2
Health:	3
Flammability:	0
Physical:	1

3. Composition	
Chemical Family:	Salt
Additional Names:	Cadmium dichloride, Cadmium(II) chloride
Cadmium chloride (CdCl ₂):	
Percentage:	100 wt%
CAS #:	10108-64-2
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. Seek immediate medical attention. Remove breathing apparatus only
	after contaminated clothing has been completely removed.
Ingestion:	Do not induce vomiting. Seek immediate medical attention.
Skin:	Wash affected area with mild soap and water. Seek immediate medical
	attention. Remove any contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
Flammability:	Non-flammable
Extinguishing Media:	No special restrictions - use suitable extinguishing agent for
	surrounding material and type of fire.
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 under inert
	gas. 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:	0.0005 mg/m ³ as Cd, long-term value
Threshold Limit Value:	0.01 mg/m^3 as Cd, long-term value
	0.002 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.

9. Physical and Chemical Characteristics

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
	10. Reactivity

Stability:	Stable under recommended storage conditions
Reacts With:	Water, Oxidizing agents
Incompatible Conditions:	Water/moisture
Hazardous Decomposition Products:	Hydrogen chloride

11. Toxicological Information

Potential Health Effects:	
Eyes:	May cause irritation
Skin:	May cause irritation
Ingestion:	Toxic
Inhalation: Chronic:	Fatal 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.
	12. Ecological Information
Aquatic Toxicity: Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative: Notes:	High No No 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
Sec 302 Extremely Hazardous: Sec 304 Reportable Quantities:	No N/A

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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