



# MATERIAL SAFETY DATA SHEET

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MSDS No. CC 18  
Effective Date July 16, 1998

## SECTION V HEALTH HAZARD DATA

CC 18

### Threshold Limited Value

Toxicity data: RTECS No. EV0175000: orl-rat LD50 88 mg/kg. Carcinogenic Review: Animal positive. ACGIH 1992-93 (as Cadmium) TWA (dust): 0.05 mg/m<sup>3</sup>.

### Effects of Overexposure

**INGESTION:** Toxic. Cadmium salts are powerful emetics, and this can be a self-limiting condition on toxicity. However, the toxicity is significant. **INHALATION:** May cause coughing, tightness in the chest, and possible lung edema. Absorption through the lungs can occur followed by symptoms of Cadmium poisoning. **SKIN CONTACT:** Mild irritant, causing some redness and discomfort. Cadmium may be absorbed through skin. **EYE CONTACT:** Mild irritant and absorption hazard.

### Emergency and First Aid Procedures

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **INGESTION:** If swallowed, if conscious, INDUCE VOMITING immediately by giving two glasses of water, or milk if available. Call a physician immediately. Never give anything by mouth to an unconscious person. **SKIN:** Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. **EYES:** Flush thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

## SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Stable under ordinary conditions of use and storage. Excessive temperature and heat.
	Stable	X		

Incompatibility (Materials to Avoid)	Bromines, trifluoride, potassium.
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Hazardous Decomposition Products	Cadmium metal as dust or fume. Oxides of the contained metal and halogen, possibly also free or ionic halogen.
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Hazardous Polymerization	Conditions to Avoid	Not applicable.
May Occur		
	X	

## SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Clean-up personnel require protective clothing and respiratory protection from dust. Sweep up and collect in a suitable container for disposal. Wash spill area with soap and water. Do NOT flush to sewer.
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Waste Disposal Method	Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.
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Dispose of in accordance with federal, state and local regulations.

## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None needed in normal laboratory handling. If dusty or fume conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.
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Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	Adequate to maintain below exposure limits.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Goggles, lab coat, ventilation hood, proper gloves, eye wash station.
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## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in cool, dry, well-ventilated area. Keep away from food products. Wash thoroughly after handling.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
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Avoid breathing dust. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 3	Date 7/16/98	Approved Michael Raszeja	Chemical Safety Coordinator	MR
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. \* Hazardous Materials Industrial Standards. Printed on recycled paper.

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	CADMIUM CHLORIDE	
Chemical Synonyms	Cadmium dichloride	
Formula	a) CdCl <sub>2</sub>	b) CdCl <sub>2</sub> •2.5H <sub>2</sub> O
Unit Size	up to 2.5 Kg.	
C.A.S. No.	a) 10108-64-2	b) 7790-78-5

CHEMTREC 800-424-9300 Day 716-226-6177	Health	3
	Fire	0
NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME	Reactivity	0
	HMIS *	
	0 1 2 3 4	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Cadmium Chloride	100%	See Section V.

**WARNING! SUSPECTED CARCINOGEN. MAY BE HARMFUL IF**

**SWALLOWED, INHALED OR ABSORBED THROUGH SKIN.**

**CAUSES IRRITATION ON CONTACT WITH SKIN OR EYES.**

## SECTION III PHYSICAL DATA

Melting Point (°F)	568°C (1054°F)	Specific Gravity (H <sub>2</sub> O = 1)	4.047 @ 25°C
Boiling Point (°F)	960°C (1760°F)	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	10 mm at 656 °C (1213°F)	Evaporation Rate ( =1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	Freely soluble in water.		
Appearance & Odor	White crystals or powder; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-combustible.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
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Extinguisher Media	Use any media suitable for extinguishing surrounding fire.
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### SPECIAL FIREFIGHTING PROCEDURES

In the event of a fire, wear full protective clothing and NIOSH/MSHA-approved, self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Fire may produce irritating or poisonous gases.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 154)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Not considered an explosion hazard.  
When heated, cadmium chloride emits highly toxic fumes.

D.O.T. Cadmium compounds, (Cadmium chloride), 6.1, UN 2570, PG III

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20