



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.  
Avon, New York 14414  
(716) 226-6177

MSDS No. CC 20  
Effective Date December 1, 1998

## SECTION V HEALTH HAZARD DATA

CC 20

### Threshold Limited Value

ACGIH (as Cadmium) - TLV 8-hour TWA (dust) 0.05 mg/m<sup>3</sup>; Fume 0.05 mg/m<sup>3</sup>.  
OSHA-PEL 8-hour TWA (dust) 0.2 mg/m<sup>3</sup>; 0.1 mg/m<sup>3</sup>. ACGIH STEL 0.2 mg/m<sup>3</sup>.  
RTECS No. EV1850000: Oral-rat LD50 300 mg/kg.

### Effects of Overexposure

Material is extremely destructive to tissues of the mucous membranes, upper respiratory tract, eyes and skin. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache. Ingestion may cause nausea, vomiting, diarrhea, abdominal cramps. May cause damage to kidneys, lungs. May cause chemical pneumonitis and pulmonary edema.

### 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)	Reducing agents, hydrides, halogen, combustible material. Easily oxidizable material.
--------------------------------------	---

Hazardous Decomposition Products	Oxides of nitrogen. Cadmium metal as dust or fume.
----------------------------------	--

Hazardous Polymerization		Conditions to Avoid
May Occur	Will Not Occur	Not applicable.
	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 and send to RCRA-approved waste disposal facility. Do NOT flush to sewer.
---	---

### 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.

Dispose of in an approved chemical landfill or contract with a licensed waste disposal service.

## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	If dusty or fume conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator for fumes.		
---------------------------------------	--	--	--

Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	Adequate to maintain below exposure limits.

Protective Gloves	Rubber.	Eye Protection	Goggles.
-------------------	---------	----------------	----------

Other Protective Equipment	Goggles with face shield, lab coat, ventilation hood, proper gloves, eye wash station.
----------------------------	--

## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Keep container tightly closed when not in use. Store in cool, dry, well-ventilated area away from flammable and oxidizable materials. Wash thoroughly after handling.
---	---

Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
-------------------	---

Avoid breathing dust. Avoid contact with eyes, skin and clothing. Do not enter storage area unless adequately ventilated. Use with adequate ventilation. Remove and wash contaminated clothing.


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

Revision No. 5	Date 12/1/98	Approved Michael Raszeja	Chemical Safety Coordinator	MR
----------------	--------------	--------------------------	-----------------------------	----

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 NITRATE, TETRAHYDRATE
Chemical Synonyms	Cadmium Nitrate, Tetrahydrate
Formula	Cd(NO <sub>3</sub> ) <sub>2</sub> •4H <sub>2</sub> O
Unit Size	up to 2.5 Kg.
C.A.S. No.	10022-68-1



CHEMTREC

800-424-9300

Day 716-226-6177

Health	3
Fire	0
Reactivity	3

HMIS \*

HIGH

EXTREME

3

4

NFPA

HAZARD RATING

LEAST

SLIGHT

MODERATE

0

1

2

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Cadmium Nitrate, Tetrahydrate	100%	See Section V.

**DANGER! STRONG OXIDIZER! CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE.**

**CONTAINS CADMIUM. EXPOSURE MAY CREATE A CANCER RISK. MAY BE FATAL IF**

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

## SECTION III PHYSICAL DATA

Melting Point (°F)	59.5°C (139°F)	Specific Gravity (H <sub>2</sub> O = 1)	2.455
Boiling Point (°F)	132°C (269°F)	Percent Volatile by Volume (%)	Non-volatile.
Vapor Pressure (mm Hg)	Data not listed.	Evaporation Rate ( =1)	Not applicable.
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	Freely soluble in water.		
Appearance & Odor	White amorphous crystals, pieces or hygroscopic needles; no odor		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-combustible.	Flammable Limits in Air % by Volume	NA	Lower	Upper
				-----	-----

Extinguisher Media	Water spray; dry chemical (ABC); alcohol foam; carbon dioxide (CO <sub>2</sub> ).
--------------------	---

### 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.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 141)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Not combustible, but substance is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Contact with oxidizable substances may cause extremely violent combustion. **EXPLOSION:** Strong oxidants may explode when shocked, or if exposed to heat, flame or friction. Also may act as initiation source for dust or vapor explosions.

D.O.T. Oxidizing solid, toxic, n.o.s., (Cadmium nitrate), 5.1, UN 3087, PG II

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