



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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

MSDS No. CC 345  
Effective Date February 9, 1999

## SECTION V HEALTH HAZARD DATA

CC 345

### Threshold Limited Value

As Cobalt Metal, dust or fume; TWA 0.02 mg/m<sup>3</sup> (air) (ACGIH 1992-93).

### Effects of Overexposure

**INHALATION:** May cause pulmonary symptoms, irritation of respiratory tract. **SKIN:** Powder may cause dermatitis. Possibility of allergic skin reaction. **EYES:** May cause serious eye irritation.

### Emergency and First Aid Procedures

**INHALATION:** Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical advice. **SKIN:** Wash thoroughly after handling. If irritation occurs, consult a physician. **EYES:** Flush thoroughly with water for 15 minutes, occasionally lifting upper and lower eyelids. If irritation develops, contact a physician. **INGESTION:** If conscious, induce vomiting and call physician. Never give anything by mouth to an unconscious person.

## SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature and heat.
	Stable	X		

Incompatibility (Materials to Avoid)	Strong acids, strong oxidizers, acetylene, hydrazinium nitrate, ammonium nitrate, bromine pentafluoride.
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Hazardous Decomposition Products	Hazardous vapor on heating.
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Hazardous Polymerization	Conditions to Avoid	Not applicable.
May Occur	Will Not Occur	
	X	

## SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Recover for use if not contaminated. Scoop up and place in suitable container for proper disposal.
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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. Dispose of in an approved chemical landfill, or contract with a licensed waste disposal company.

## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	When in chunks, none required; as powder, if dusty conditions prevail, wear a NIOSH/MSHA-approved dust mask; as fume, wear a self-contained breathing apparatus.		
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Ventilation	Local Exhaust	None required.	Special	No.
	Mechanical (General)	None required.	Other	No.

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

Precautions to be Taken in Handling & Storing	Store in a cool, dry place. Avoid dampness. Wash thoroughly after handling.
Keep container tightly closed when not in use.	

Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
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Do not generate dust or fumes. Avoid ingestion or inhalation as dust or fume. 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 2/9/99	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	COBALT, METAL; PIECES		
Chemical Synonyms	Cobalt, Metal		
Formula	Co		
Unit Size	up to 2.5 Kg.		
C.A.S. No.	7440-48-4		

**CHEMTREC**  
800-424-9300  
Day 716-226-6177

Health	1
Fire	0
Reactivity	0

**NFPA HAZARD RATING**

LEAST	SLIGHT	MODERATE	HIGH	EXTREME
0	1	2	3	4

**HMIS \***

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Cobalt Metal	99.99%	See Section V.
<b>WARNING! HARMFUL FUMES MAY BE FORMED ON HEATING.</b>		
<b>USE ONLY WITH ADEQUATE VENTILATION. MAY BE HARMFUL</b>		
<b>IF SWALLOWED OR INHALED AS DUST OR FUME.</b>		

## SECTION III PHYSICAL DATA

Melting Point (°F)	1493°C (2720°F)	Specific Gravity (H <sub>2</sub> O = 1)	8.9 g/cc
Boiling Point (°F)	2723°C (3550°F)	Percent Volatile by Volume (%)	Not applicable.
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate ( =1)	Not applicable.
Vapor Density (Air=1)	N/A		
Solubility in Water	Insoluble.		
Appearance & Odor	Gray, hard, magnetic, ductile, pieces; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable (NA).	Flammable Limits in Air % by Volume	NA	Lower	Upper
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Extinguisher Media	Use any media suitable for extinguishing supporting fire.				

### SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved, self-contained breathing apparatus and full protective clothing.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Moderate fire hazard when exposed to heat or flame or by spontaneous chemical reaction. In metallic form, no risk of fire or explosion in normal handling temperatures.

D.O.T. NON-REGULATED.

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