



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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MSDS No. CC 360
Effective Date December 7, 1998

SECTION V HEALTH HAZARD DATA

CC 360

Threshold Limited Value RTECS No. QU7355500 Toxicity data: Ori-rat LD50 691 mg/kg. As cobalt metal, dust] or fume: TWA: 0.02 mg/m³ (ACGIH 1992-93); OSHA PEL 0.1 mg/m³ (Co)

Effects of Overexposure
INHALATION: May cause upper respiratory tract irritation. **EYES:** May cause irritation or acid burns. **SKIN:** Prolonged or repeated exposure causes irritation and may result in an allergic skin reaction or acid burns. **INGESTION:** Harmful if swallowed. May cause burns of the mouth, throat and stomach. Excessive inhalation and/or ingestion of cobalt salts may affect the kidneys, lungs and thyroid.

Emergency and First Aid Procedures
INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention. **SKIN:** Wash with soap and water. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting and call physician. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Moisture, excessive temperature and heat.
	Stable	X		

Incompatibility (Materials to Avoid) Easily oxidized materials.

Hazardous Decomposition Products Thermal decomposition or burning may produce oxides of nitrogen.

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 Sweep up and place in a suitable container for proper disposal.

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 a chemical landfill or contract a licensed chemical waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None should be needed in normal laboratory handling. If dusty conditions prevail, work in a ventilation hood or wear a NIOSH/MSHA-approved dust mask.

Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves Rubber. **Eye Protection** Chemical safety glasses.

Other Protective Equipment Safety glasses, smock, apron, vented hood, proper gloves, and eye wash station.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place away from combustible materials. Wash thoroughly after handling. Remove and wash contaminated clothing. 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. Avoid contact with eyes, skin and clothing. Deliquescent material. Avoid generating dust. Use with adequate ventilation. Contact with other material may cause fire.

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

Revision No. 6	Date 12/7/98	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	COBALT NITRATE, 6-HYDRATE	
Chemical Synonyms	Cobaltous Nitrate, Hexahydrate	
Formula	Co(NO ₃) ₂ ·6H ₂ O	
Unit Size	up to 2.5 Kg	
C.A.S. No.	10026-22-9	

0
1
2
3
4

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

Health	2
Fire	0
Reactivity	3

NFPA HAZARD RATING

LEAST	SLIGHT	MODERATE	HIGH	EXTREME
0	1	2	3	4

HMIS *

Health	2
Fire	0
Reactivity	3

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Cobalt Nitrate, Hexahydrate	100%	See Section V.

DANGER! STRONG OXIDIZER! MAY BE FATAL IF SWALLOWED.

HARMFUL IF INHALED. CAUSES SKIN AND EYE IRRITATION.

SECTION III PHYSICAL DATA

Melting Point (°F)	55°C (131°F)	Specific Gravity (H₂O = 1)	1.88 (25°C)
Boiling Point (°F)	Not applicable.	Percent Volatile by Volume (%)	Not applicable.
Vapor Pressure (mm Hg)	Not applicable.	Evaporation Rate (=1)	Not applicable.
Vapor Density (Air=1)	Not applicable.		
Solubility in Water	Soluble.		
Appearance & Odor	Red, deliquescent crystals; slight nitric acid odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-combustible (NA).	Flammable Limits in Air % by Volume	N/A	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.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 140)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products. Strong oxidizing agent; dangerous fire risk in contact with organic materials.

D.O.T. **NITRATES, INORGANIC, N.O.S., (COBALT NITRATE), 5.1, UN 1477, PG II**

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