



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W.Henrietta Rd.
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(716) 226-6177

MSDS No. CC 359
Effective Date February 10, 1999

SECTION V HEALTH HAZARD DATA

CC 359

Threshold Limited Value

As cobalt metal, dust or fume: TWA: 0.02 mg/m³ (air), (ACGIH,1992-93).
None established for this mixture.

Effects of Overexposure

INHALATION: Prolonged or repeated exposure to the dust may produce asthma-like symptoms. **EYES:** Causes irritation. **SKIN:** Prolonged or repeated exposure causes irritation and may result in an allergic skin reaction. **INGESTION:** May cause vomiting, diarrhea and a sensation of hotness. Excessive inhalation and/or ingestion of cobalt salts may affect the kidneys, lungs and thyroid.

Emergency and First Aid Procedures

INHALATION AS MIST: Remove to fresh air. If irritation of upper respiratory area develops, get medical attention. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. If irritation develops, get medical attention. **SKIN:** Flush thoroughly with water, then wash with mild 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
	Stable	Excessive temperature or heat causing evaporation of solution.

Incompatibility (Materials to Avoid)	Easily oxidized materials.
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Hazardous Decomposition Products	Thermal decomposition or burning may produce oxides of nitrogen (NO _x) and oxides of cobalt.
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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	Absorb spill in vermiculite, sand, earth, paper towel and place in a suitable container. Wash spill area with soap and water.
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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 an approved chemical landfill or contract with a licensed waste disposal agency.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None needed in normal laboratory handling. If misty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved respirator.
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Ventilation	Local Exhaust	None needed.	Special	No.
	Mechanical (General)	None needed.	Other	Mechanical for mists.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Lab coat, apron, eye wash station, proper gloves.
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SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool place. Wash thoroughly after handling.
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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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Avoid contact with skin and eyes.
Remove and wash contaminated clothing.

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

Revision No. 6	Date 2/10/99	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 NITRATE 0.1 MOLAR AQ. SOLN
Chemical Synonyms	Cobalt Nitrate Water Solution
Formula	Mixture.
Unit Size	up to 4 Lt.
C.A.S. No.	Mixture. .

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

NFPA HAZARD RATING
LEAST SLIGHT MODERATE HIGH EXTREME
0 1 2 3 4

Health	2
Fire	0
Reactivity	1

HMIS *
3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Cobalt Nitrate: (CAS No. 10141-05-6)	1.83%	See Section V.
Water: (CAS No. 7732-18-5)	98.17%	None established.
WARNING! HARMFUL IF SWALLOWED. CONTACT MAY		

CAUSE IRRITATION OR ALLERGIC SKIN REACTION.

SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes approx. 0°C (32°F)	Specific Gravity (H ₂ O = 1)	Approx. 1.0
Boiling Point (°F)	Approx. 110°-120°C (230°-248°F)	Percent Volatile by Volume (%)	98.17%
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate (Water =1)	Slightly greater than 1.
Vapor Density (Air=1)	0.7 (water)		
Solubility in Water	Complete.		
Appearance & Odor	Clear pink, water like liquid; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

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

SPECIAL FIREFIGHTING PROCEDURES

If involved in fire situation, wear a NIOSH/MSHA-approved self-contained breathing apparatus. Use flooding amounts of water in early stages of fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS

In fire conditions, water may evaporate from this solution, which may cause hazardous decomposition products to be produced as dust or fume.

D.O.T. NON-REGULATED.

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