



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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

MSDS No. SS 150  
Effective Date April 26, 1999

## SECTION V HEALTH HAZARD DATA

SS 150

### Threshold Limited Value

Not applicable; product is granular and inert.

### Effects of Overexposure

May cause drying of skin, eye or mucous membrane irritation. Cobalt Chloride can cause dermatitis and irritation of nasal passages and lungs. Prolonged inhalation may cause lung damage.

### Emergency and First Aid Procedures

**EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention. **SKIN:** Flush with water, then wash with mild soap and water. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **INGESTION:** Material will pass through body normally. If irritation develops or persists, get medical attention. Never give anything by mouth to an unconscious person.

## SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	None specifically known.
	Stable	X		

Incompatibility (Materials to Avoid)	Moisture, high humidity.
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Hazardous Decomposition Products	Carbon dioxide, carbon monoxide.
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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	Sweep up and and place in a suitable container for reclamation or disposal. 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. Dispose of in an approved landfill according to federal, state and local regulations.
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## 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	Ventilation hood, eye wash station, goggles, and protective gloves.			

## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Avoid raising dust. Avoid contact with skin, eyes and clothing. Keep container tightly closed to avoid moisture absorption before use. Wash thoroughly after handling. Remove and wash contaminated clothing.
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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 heating over 600°F as this will destroy desiccant properties. Moisture pickup or overheating will affect product quality but will not introduce safety hazards.

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

Revision	No. 5	Date	4/26/99	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	SILICA GEL, INDICATING
Chemical Synonyms	Amorphous Silica, Indicating
Formula	SiO <sub>2</sub> *aq + 0.5% Cobalt Chloride *
Unit Size	Up to 2.5 Kg.
C.A.S. No.	7631-86-9

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

NFPA  
HAZARD RATING

LEAST	SLIGHT	MODERATE	HIGH	EXTREME
0	1	2	3	4

HMIS \*

Health	1
Fire	0
Reactivity	0

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Silica Gel is an amorphous form of silica, and has not been defined by the U.S. Department as a hazardous material. The LD <sub>50</sub> of the Cobalt Chloride (CoCl <sub>2</sub> ) additive is approximately 100 mg/kg body weight (equivalent to ingestion of 1.75 lb. gel by a 175 lb. person).		See Section V.

## SECTION III PHYSICAL DATA

Melting Point (°F)	Approx. 1710°C (3110°F)	Specific Gravity (H <sub>2</sub> O = 1)	2.1
Boiling Point (°F)	Approx. 2230°C (4046°F)	Percent Volatile by Volume (%)	6.0
Vapor Pressure (mm Hg)	10 mm at 1732°C	Evaporation Rate (≈1)	N/A
Vapor Density (Air=1)	None listed.		
Solubility in Water	Insoluble, will absorb moisture.		
Appearance & Odor	Blue, dry granules, beads, powder. *		

## 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

None required. Will not burn or support fire.

\* Cobalt Chloride: (CAS No. 7646-79-9)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

None specifically known.

\* When hydrated color changes from blue to violet, to pink to pale pink.

D.O.T. NON-REGULATED.

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