



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. CC 327  
Effective Date February 8, 1999

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

<b>Product</b>	CHROMIUM SULFATE	 <p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <tr> <td>LEAST</td> <td>SLIGHT</td> <td>MODERATE</td> <td>HIGH</td> <td>EXTREME</td> </tr> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> <p>HMIS *</p> <table border="1"> <tr> <td>Health</td> <td>2</td> </tr> <tr> <td>Fire</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	2	Fire	0	Reactivity	0
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Health	2																	
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Reactivity	0																	
<b>Chemical Synonyms</b>	Chromium (III) Sulfate (2.3), hydrate																	
<b>Formula</b>	Cr <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> ·nH <sub>2</sub> O																	
<b>Unit Size</b>	up to 2.5 Kg.																	
<b>C.A.S. No.</b>	15244-38-9 (Hydrated)																	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Chromium Sulfate	100%	TWA: 0.5 mg/m <sup>3</sup>

**WARNING! HARMFUL IF SWALLOWED**

**OR INHALED. CAUSES IRRITATION.**

## SECTION III PHYSICAL DATA

Melting Point (°F)	Loses water at 90°C (194°F)	Specific Gravity (H <sub>2</sub> O = 1)	1.7
Boiling Point (°F)	Decomposes at red heat.	Percent Volatile by Volume (%)	Not applicable.
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	84-120 grams/100 mL. water at 20°C (68°F).		
Appearance & Odor	Violet or green crystals; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	Non-combustible.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
<b>Extinguisher Media</b>	Use any means suitable for extinguishing surrounding fire.				

### SPECIAL FIREFIGHTING PROCEDURES

In the event of a fire, wear full protective clothing and NIOSH/MSHA-approved, self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

**FIRE:** Not considered to be a fire hazard.  
**EXPLOSION:** Not considered to be an explosion hazard.  
Fire or excessive heat may produce hazardous decomposition products as chromium dust or fume and oxides of sulfur.

D.O.T. **NON-REGULATED.**

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

## SECTION V HEALTH HAZARD DATA

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**Threshold Limited Value** TWA: 0.5 mg/m<sup>3</sup> as Cr III (Chromic). (ACGIH 1992-93). As dust.

**Effects of Overexposure**  
**INHALATION:** May cause coughing, headache, dyspnea, and fever. May also cause tracheobronchial irritation and pulmonary edema. **INGESTION:** Large oral doses may cause dizziness, intense thirst, oliguria or anuria, abdominal pain, vomiting, and shock. Death may occur from renal failure. Chromium compounds in the 3+ state have a lower toxicity than those in the 6+ state. **SKIN CONTACT:** May cause skin ulcerations. **EYE CONTACT:** May cause eye damage, irritation.

**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.  
**INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting and call a physician immediately. Never give anything by mouth to an unconscious person. **SKIN:** Flush with water for 15 minutes, then wash with mild soap and water. Remove contaminated clothing and shoes. **EYES:** Flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Stable under ordinary conditions of use and storage. Excessive temperature and heat.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** No incompatibility data found.

**Hazardous Decomposition Products** Oxides of sulfur, carbon and chromium metal dust or fume.

<b>Hazardous Polymerization</b>	<b>Conditions to Avoid</b>
<b>May Occur</b>	<b>Will Not Occur</b>
	X
Not applicable.	

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled**  
Ventilate area of leak or spill. Clean-up personnel must wear protective clothing. Sweep up in a method that does not generate dust and place in a suitable container for disposal. Do not flush to sewer. Wash spill area with soap and water.

**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)** None should be needed in normal laboratory handling. If dusty or fume conditions prevail, wear a NIOSH/MSHA-approved dust mask or respirator for fumes.

<b>Ventilation</b>	<b>Local Exhaust</b>	<b>If dusty or misty.</b>	<b>Special</b>	<b>No.</b>
	<b>Mechanical (General)</b>	Recommended.	<b>Other</b>	Adequate to maintain below exposure limit.

<b>Protective Gloves</b>	Rubber.	<b>Eye Protection</b>	Chemical safety glasses.
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**Other Protective Equipment** Goggles, lab coat, eye wash station, ventilation hood, proper gloves.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing**  
Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area. Wash thoroughly after handling.

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

Do not get in eyes, on skin, or on clothing. Avoid breathing dust. 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.

<b>Revision</b> No. 5	<b>Date</b> 2/8/99	<b>Approved</b> Michael Raszeja	<b>Chemical Safety Coordinator</b> MR
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