



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. CC 296
Effective Date February 4, 1999

SECTION V HEALTH HAZARD DATA

CC 296

Threshold Limited Value As dust TWA: 0.5 mg/m³ as Cr III (Chromic). (ACGIH 1992-93). RTECS No. GB5450000 Toxicity: LD50 (orl-rat) 1790 mg/kg; LD50 (ipr-mouse) 520 mg/kg.

Effects of Overexposure
INHALATION: May cause coughing, headache, dyspnea, and fever. May also cause respiratory tract irritation. **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:** Causes skin irritation. **EYE CONTACT:** Causes eye 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. 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 upper and lower eyelids occasionally. Get medical attention immediately.

SECTION VI REACTIVITY DATA

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

Incompatibility (Materials to Avoid) Lithium and nitrogen.

Hazardous Decomposition Products Emits toxic fumes of Chlorine, Chromium dust or fume when heated to decomposition. Hydrogen chloride gas.

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 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, work in fume hood or wear a NIOSH/MSHA-approved dust mask, or respirator for fumes.

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

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

Other Protective Equipment Goggles, lab coat, eye wash station, ventilation hood.

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.
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.
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.

Revision No. 5	Date 2/4/99	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	CHROMIUM CHLORIDE	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * HEALTH FIRE REACTIVITY 1 0 2
Chemical Synonyms	Chromium (III) Chloride, Hexahydrate	
Formula	CrCl ₃ ·6H ₂ O	
Unit Size	up to 2.5 Kg.	
C.A.S. No.	10060-12-5 (Hydrate)	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Chromium Chloride	90-100%	TWA: 0.5 mg/m ³
WARNING! HARMFUL IF SWALLOWED.		
CAUSES IRRITATION TO SKIN AND EYES.		

SECTION III PHYSICAL DATA

Melting Point (°F)	Sublimes 83°C (181°F)	Specific Gravity (H ₂ O = 1)	1.76
Boiling Point (°F)	N/A	Percent Volatile by Volume (%)	Non-volatile.
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (Butyl acetate =1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	Appreciable (more than 10%).		
Appearance & Odor	Greenish-black or violet crystals; no odor. Hygroscopic.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

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

SPECIAL FIREFIGHTING PROCEDURES

In the event of a fire, wear full protective clothing and a NIOSH/MSHA-approved, self-contained breathing apparatus with full facepiece operated in the 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 of Chromium dust or fume and chlorine gas.

D.O.T. NON-REGULATED.

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