MATERIAL SAFETY DATA SHEET

ALDON CORPORATION
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MSDS No. CC 295
Effective Date February 4, 1999

SECTION I NAME

Product	CHROMIUM NITRATE
Chemical Synonyms	Chromic (III) Nitrate
Formula	$Cr(NO_3)_3 \cdot 9H_2O$
Unit Size	up to 500 grams
C.A.S. No.	7789-02-8

24 HOUR EMERGENCY ASSISTANCE

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

NFPA HAZARD RATING

Health	2
Fire	0
Reactivity	3

HMIS *

LEAST	SLIGHT	MODERATE	HIGH	EXTREME
0	1	2	3	4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Chromium Nitrate	100%	See Section V.
DANGER! STRONG OXIDIZER! CONTACT WITH COMBUSTIBLE		
MATERIAL MAY CAUSE FIRE OR EXPLOSION. HARMFUL		
IF SWALLOWED OR INHALED. MAY CAUSE BURNS.		

SECTION III PHYSICAL DATA

Melting Point (°F)	Approx. 60°C (140°F)	Specific Gravity (H_2O = 1)	1.85
Boiling Point (°F)	Decomposed about 100°C (212°F)	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (Butyl acetate =1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	Very soluble.		
Appearance & Odor	Deep violet rhombic, monoclinic crystals; 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	Water spray; dry chemical (ABC); alcohol foam; carbon dioxide (CO_2).			

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus. Use flooding amounts of water in early stages of fire. When large quantities are involved in fire, nitrates may fuse or melt, in which condition, application of water may result in extensive scattering of molten material.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 141)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Oxidizing material. In contact with easily oxidizable substances it may react rapidly enough to cause ignition, violent combustion or explosion. Increases the flammability of any combustible substance. Yields toxic gaseous oxides of nitrogen when involved in fire.

D.O.T. **Chromium nitrate, 5.1, UN 2720, PG III**

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

SECTION V HEALTH HAZARD DATA CC 295

Threshold Limited Value

Chromium (III) compounds: As dust TWA: 0.5 mg/m^3 as Cr III (Chromic). (ACGIH 1992-93). Toxicity Data: orl-rat LD50: 3250 mg/kg.

Effects of Overexposure

INHALATION: May cause coughing, headache, dypsnea, and fever. May also cause respiratory tract irritation and pulmonary edema. **INGESTION:** Large oral doses may cause dizziness, intense thirst, oliguria or anuria, abdominal pain, vomiting, and shock. May cause burns of the mouth, throat and stomach. **SKIN CONTACT:** Causes skin ulcerations. **EYE CONTACT:** Causes eye damage.

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. **EYE:** 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

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

Incompatibility (Materials to Avoid): Aluminum and Magnesium metals. Easily oxidizable materials, e.g. Esters, ethers, may ignite organic materials on contact.

Hazardous Decomposition Products: Emits toxic fumes of oxide of nitrogen, chromium dust or fume when heated to decomposition.

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

Recover for use if not contaminated. Ventilate area of leak or spill. Clean-up personnel should be wearing protective clothing. Sweep up in a manner that does not generate dust and place in a suitable container for disposal. Do not flush to sewer. Avoid contamination of water sources. 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 needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.

Ventilation				
	Local Exhaust	If dusty or misty.	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, proper gloves, safety shower.

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 away from combustible materials. 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. Wash contaminated clothing before reuse.

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

Revision No. 6	Date 2/4/99	Approved Michael Raszeja	Chemical Safety Coordinator MR