MATERIAL SAFETY DATA SHEET

ALDON CORPORATION
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Avon, New York 14414
(716) 226-6177

MSDS No. CC 325
Effective Date February 8, 1999

SECTION I NAME

Product	CHROMIUM TRIOXIDE
Chemical Synonyms	Chromic Acid, Chromic Anhydride
Formula	CrO_3
Unit Size	up to 2.5 Kg.
C.A.S. No.	1333-82-0

24 HOUR EMERGENCY ASSISTANCE

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

NFPA HAZARD RATING

LEAST	SLIGHT	MODERATE	HIGH	EXTREME
0	1	2	3	4

HMIS *	
Health	4
Fire	0
Reactivity	3

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Chromium Trioxide	100%	See Section V.
DANGER! STRONG OXIDIZER! CORROSIVE! MAY BE		
FATAL IF SWALLOWED. CAUSES SKIN AND EYE BURNS.		
HARMFUL IF INHALED. SUSPECTED CARCINOGEN.		

SECTION III PHYSICAL DATA

Melting Point (°F)	196°C (385°F)	Specific Gravity (H_2O = 1)	2.70 @ 20°C
Boiling Point (°F)	Above 446°F	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	3.46		
Solubility in Water	62 grams per 100 mL water 20°C.		
Appearance & Odor	Dark, purple-red crystals, flakes, granular, powder; 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; carbon dioxide; dry chemical (ABC).			

SPECIAL FIREFIGHTING PROCEDURES

Use water; however, the decomposing material will form a hot, viscous foam and caution should be exercised against possibility of steam explosion. Wear a NIOSH/MSHA-approved, self-contained breathing apparatus and full protective clothing.

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

UNUSUAL FIRE AND EXPLOSION HAZARDS

DANGEROUS: Powerful oxidizing material. Will ignite on contact with Acetic Acid and alcohol. May react with organic materials rapidly enough to generate sufficient heat to cause ignition. Containers may explode when involved in fire. Upon intimate contact with powerful reducing agents, it can cause violent explosions.

D.O.T. **CHROMIUM TRIOXIDE, ANHYDROUS, 5.1, UN 1463, PG II**

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

SECTION V HEALTH HAZARD DATA CC 325

Threshold Limited Value
TWA: 0.05 mg/m^3 as Chromium (VI), water soluble (ACGIH, 1983-84). RTECS No. GB6650000 Toxicity data: lpr-mus LD50: 29 mg/kg, sca-dog LDLo: 330 mg/kg. Carcinogenic Review: Animal positive.

Effects of Overexposure
INHALATION: Dust may cause irritation or ulceration of upper and lower respiratory tract. Repeated exposure may result in perforation of the nasal septum. **EYES:** Causes burns. **SKIN:** Causes irritation. Prolonged contact may result in deep ulceration. Repeated contact may cause an allergic skin reaction. **INGESTION:** Violent gastroenteritis, peripheral vascular collapse, vertigo, muscle cramps, coma, and toxic nephritis with glycosuria may ensue.

Emergency and First Aid Procedures
INHALATION: Remove to fresh air. Get medical attention. **EYES:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get prompt medical attention. **SKIN:** Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. **INGESTION:** If swallowed, if conscious, drink large quantities of water. Follow with milk of magnesia, beaten eggs, or vegetable oil. Call physician immediately. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

Stability	**Unstable**		**Conditions to Avoid**
	Stable	X	Contact with organic materials.

Incompatibility (Materials to Avoid) Strong reducers, organic matter and combustible materials.

Hazardous Decomposition Products Chromium compounds as solids or mists.

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
Sweep up onto paper and place in a non-combustible container for proper disposal. 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 diposal agency.

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	Recommended.	**Special**	No.
	Mechanical (General)	Recommended.	**Other**	No.

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

Other Protective Equipment Safety glasses, smock, apron, or as necessary to prevent skin and eye contact, eye wash station, proper gloves, 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 place away from combustibles. Wash thoroughly after handling.

Other Precautions
Read label on container before using. Do not wear contact lenses when working with chemicals.
Contains Hexavalent chromium - overexposure may create cancer risk. This material is usually caustic in its action on skin, mucous membranes or organic materials in general. Remove and wash contaminated clothing. Discard contaminated shoes.

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

Revision No. 4	Date 2/8/99	Approved Michael Raszeja	Chemical Safety Coordinator MR