



**ALDON
CORPORATION**

MATERIAL SAFETY DATA SHEET

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MSDS No. CC 305
Effective Date August 3, 1998

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	CHROMIUM POTASSIUM SULFATE	<p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <p>LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4</p> <p>HMIS * 3 4</p>	Health	2
Chemical Synonyms	Chrom Alum Dodecahydrate		Fire	0
Formula	CrK(SO ₄) ₂ •12H ₂ O		Reactivity	0
Unit Size	up to 2.5 Kg.			
C.A.S. No.	7788-99-0			

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Chromium Potassium Sulfate, Dodecahydrate	90-100%	See Section V.
WARNING! CAUSES IRRITATION. HARMFUL IF		
SWALLOWED, INHALED OR ABSORBED THROUGH SKIN.		

SECTION III PHYSICAL DATA

Melting Point (°F)	89°C (192°F)	Specific Gravity (H ₂ O = 1)	1.813
Boiling Point (°F)	400°C (752°F) dehydrates	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	25 grams per 100 mL. at 20°C.		
Appearance & Odor	Large, purple-violet-red to black, octahedral, cubic crystals; ruby-red under transmitted light; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable solid (NA).	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Use any media suitable for extinguishing supporting fire.				

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved, self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products of chromium dust or fume, oxides of sulfur.

SECTION V HEALTH HAZARD DATA

CC 305

Threshold Limited Value

As dust TWA: 0.5 mg/m³ as Cr III (Chromic). (ACGIH 1992-93); OSHA-PEL (TWA) 1 mg/m³ (AIR). Toxicity Data: ivn-rat LD50: 112 mg/kg.

Effects of Overexposure

Irritation of eyes, nose and throat from dust or possibly mist. May irritate skin. Ingestion may cause stomach cramps, nausea. Causes irritation to eyes, stinging and burning sensation. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures

INHALATION: Remove to fresh air. If illness or discomfort develops, get medical attention. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink. Induce vomiting and call physician. Never give anything by mouth to an unconscious person. **SKIN:** Flush thoroughly with water, then wash with mild soap and water.

SECTION VI REACTIVITY DATA

Stability	Unstable Stable	X	Conditions to Avoid	Excessive temperature, heat, flame, sources of ignition.
Incompatibility (Materials to Avoid)	Aluminum and magnesium metals.			
Hazardous Decomposition Products	Chromium as fume or dust, oxides of sulfur (SO _x).			
Hazardous Polymerization	Conditions to Avoid			
May Occur	Will Not Occur	X	Not applicable.	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Recover for use if not contaminated. Wearing proper protective clothing and with adequate ventilation, sweep up and place in a suitable container for proper disposal. Flush spill area with 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 accordance with federal, state and local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None should be needed in normal laboratory handling. If dusty conditions prevail, work in a fume 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, lab coat, eye wash station, ventilation hood, proper gloves.			

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Store in a cool, dry place. Suitable for any general chemical storage 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.

Avoid contact with eyes, skin and 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. 4	Date	8/3/98	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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D.O.T. NON-REGULATED.

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