



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
Avon, New York 14414
(716) 226-6177

MSDS No. SS 520
Effective Date February 11, 1998

SECTION V HEALTH HAZARD DATA

SS 520

Threshold Limited Value

RTECS No. HX7750000 Toxicity data: orl-rat LD50: 51 mg/kg.
dermal-rabbit: LD50: 1.0 g/kg.

Effects of Overexposure

INHALATION: Chromate dusts or mists can cause ulceration and perforation of nasal septum, as well as irritation and ulceration of the respiratory system. Overexposure to chromium compounds may cause lung cancer-risk. **INGESTION:** Can be harmful or fatal if swallowed. Toxic effects may not appear right away. A systemic poison; chromates are primarily toxic to the kidneys, liver, and gastrointestinal tract. Dusts and solutions can cause irritation. Contact with breaks in the skin can cause "chrome sores". Chromates are skin sensitizers. Skin absorption has been reported.

Emergency and First Aid Procedures

SKIN: Wash with soap and flush with plenty of water without delay. Remove contaminated clothing and wash before reuse. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention. **INGESTION:** If swallowed, if conscious, have victim drink large quantities of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Immediately seek medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. **Get medical attention** for ingestion, inhalation, irritation, chemical or thermal burns or "chrome sores", (skin ulcers). **EYES:** Dusts, mists, or solutions can cause severe irritation and conjunctivitis.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature and heat.
	Stable	X		

Incompatibility (Materials to Avoid)	May react easily with oxidizing /combustible materials. May react with strong alkalis or acids to give off heat.
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Hazardous Decomposition Products	Thermal decomposition may produce chromic oxide or other oxides of chromium which may be hazardous. Sodium hydroxide or sodium oxide may be produced.
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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	Sweep up and place in a suitable container for reclamation or disposal. Flush spill area with water. Keep wash water out of sewers.
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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 an approved and licensed disposal agency.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	Not required in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.
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Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	Adequate to maintain below exposure limit.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Goggles, smock, apron, eye wash station, proper gloves, ventilation hood.
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SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry, well-ventilated area, away from reducing agents. Avoid breathing dust. Do not get in eyes or on skin. Wash thoroughly after handling. Remove and wash contaminated clothing.
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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.

NOTE: Chromium compounds in the form of chromates and dichromates have been found to be mutagenic in bacterial and mammalian cells, including those of the Chinese hamster. Recent studies indicate a significant risk of lung cancer among long-term employees of the chromate producing industry.

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

Revision	No. 5	Date	2/11/98	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	SODIUM DICHROMATE, DIHYDRATE	 <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>4</td> </tr> <tr> <td>Fire</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>3</td> </tr> </table>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	4	Fire	0	Reactivity	3
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
0	1		2	3	4													
Health	4																	
Fire	0																	
Reactivity	3																	
Chemical Synonyms	Sodium Bichromate																	
Formula	Na ₂ Cr ₂ O ₇ •2H ₂ O																	
Unit Size	up to 2.5 Kg.																	
C.A.S. No.	7789-12-0																	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Sodium Dichromate, Dihydrate	100%	0.05 mg/m ³ as Cr

DANGER!  **POISON! STRONG OXIDIZER! HARMFUL IF INHALED,**

SWALLOWED OR ABSORBED THROUGH SKIN. CAUSES IRRITATION. CANCER HAZARD.

MAY CAUSE RASH OR ULCERS ON OPEN SKIN OR MUCOUS MEMBRANES.

SECTION III PHYSICAL DATA

Melting Point (°F)	-2H ₂ O at 82.6°C (180.7°F) *	Specific Gravity (H ₂ O = 1)	2.348
Boiling Point (°F)	400°C (752°F) decomposes	Percent Volatile by Volume (%)	Not applicable.
Vapor Pressure (mm Hg)	Not applicable.	Evaporation Rate (=1)	Not applicable.
Vapor Density (Air=1)	Not applicable.		
Solubility in Water	73 grams in 100 mL. water at 20°C		
Appearance & Odor	Reddish to bright orange 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
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Extinguisher Media	Use any media suitable for extinguishing supporting fire.
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SPECIAL FIREFIGHTING PROCEDURES

If fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 151)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Although not flammable, this product may act as an oxidizing agent to sustain a fire involving organic matter or other easily oxidizable material. Water runoff may contain chromium compounds and should not be allowed to enter sewers or waterways.

* Melting Point: Anhydrous 356°C (672°F).

D.O.T. Toxic solid, inorganic, n.o.s. (Sodium dichromate), 6.1, UN 3288, PG II

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