



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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MSDS No. PP 521
Effective Date March 20, 1997

SECTION V HEALTH HAZARD DATA

PP 521

Threshold Limited Value

None established for this mixture. ACGIH 1992-93

Effects of Overexposure

INHALATION: Dust causes severe irritation of the upper respiratory tract. Prolonged or repeated exposures can result in perforation of the nasal septum and discoloration of teeth. **EYES:** Causes burns. **SKIN:** Causes burns and ulceration of skin wounds. Repeated contact may result in an allergic skin reaction. **INGESTION:** May be harmful if swallowed.

Emergency and First Aid Procedures

INGESTION: If conscious, give one or two glasses of water to drink. Induce vomiting. Repeat until vomit fluid is clear. Follow with milk of magnesia, beaten eggs, or vegetable oil. Call a physician immediately. **INHALATION AS MIST:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **EYES:** Immediately flush eyes with plenty of water for at least 15 minutes and get prompt medical attention. **SKIN:** Immediately flush with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes.

SECTION VI REACTIVITY DATA

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

Incompatibility (Materials to Avoid)	Reducing agents-reaction can be violent. Acetone; sulfuric acid; hydrazine; hydroxylamine; slaked lime.
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Hazardous Decomposition Products	Potassium chromate, chromic sesquioxide and oxygen gas.
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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	Absorb with an inert dry material, sweep up and place in suitable container for proper disposal. Wash spill area with soap and water.
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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 a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None should be needed in normal laboratory handling. If misty conditions prevail, use an approved NIOSH/MSHA respirator.		
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Ventilation	Local Exhaust	Not required.	Special	No.
	Mechanical (General)	Not required.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Lab coat, 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 place. Wash thoroughly after handling. Remove and wash contaminated clothing.
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:** Hexavalent 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. 1	Date	3/20/97	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	POTASSIUM DICHROMATE, 0.1 MOLAR SOLUTION
Chemical Synonyms	Potassium Dichromate Aqueous Solution
Formula	Mixture.
Unit Size	up to 4 Lt.
C.A.S. No.	Mixture.

CHEMTREC 800-424-9300 Day 716-226-6177	Health	2
	Fire	0
NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4	Reactivity	1
	HMIS *	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Potassium Dichromate: (CAS No. 7778-50-9)	2.9%	See Section V.
Water: (CAS No. 7732-18-5)	97.1%	None established.

WARNING! MAY BE HARMFUL IF SWALLOWED. CONTACT MAY CAUSE IRRITATION, RASH OR EXTERNAL ULCERS.

SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes approx. 0°C (32°F)	Specific Gravity (H ₂ O = 1)	Approx. 1.0
Boiling Point (°F)	Approx. 100°C (212°F)	Percent Volatile by Volume (%)	97.1%
Vapor Pressure (mm Hg)	14 (water).	Evaporation Rate (Water = 1)	Slightly less than 1.
Vapor Density (Air=1)	0.7 (water).		
Solubility in Water	Complete.		
Appearance & Odor	Clear, yellow, water solution; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

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

If involved in fire situation, wear a NIOSH/MSHA-approved self-contained breathing apparatus. Use flooding amounts of water in early stages of fire. Water runoff may contain hexavalent chromium and should not be allowed to enter sewers or waterways.

UNUSUAL FIRE AND EXPLOSION HAZARDS

In fire conditions resulting in the evaporation of the water solution, Potassium Dichromate is an active 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 fumes of chromium when involved in fire. Water runoff may contain hexavalent chromium and should not be allowed to enter sewers or waterways. Use a NIOSH/MSHA-approved, self-contained breathing apparatus if exposure to chromium dust or mist is possible.

D.O.T.	NON-REGULATED.
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Approved by U.S. Department of Labor "essentially similar" to form OSHA-20