



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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MSDS No. PP 700
Effective Date July 13, 1998

SECTION V HEALTH HAZARD DATA

PP 700

Threshold Limited Value 5 mg/m³ (Air) Ceiling as manganese dust. (ACGIH 1992-93). Acute oral LD50 (rat) = 1090 mg/kg.

Effects of Overexposure **EYE OR SKIN CONTACT:** May cause severe burns with redness and pain. **INGESTION:** May cause inflammation and corrosion of the mouth, pharynx and larynx, including nausea, vomiting, difficulty speaking. **INHALATION:** May cause severe irritation of the respiratory tract, labored breathing, cough, pain in the nose, mouth and throat.

Emergency and First Aid Procedures **SKIN:** Flush with water, then wash with mild soap and water. **INGESTION:** If swallowed, do NOT induce vomiting. If conscious, give one or two glasses of water to drink. Call physician immediately. Never give anything by mouth to an unconscious person. **INHALATION:** Remove to fresh air, treat symptomatically, and get medical attention. **EYES:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Exposure of material to incompatible materials and heat.
	Stable	X		

Incompatibility (Materials to Avoid) See Section IV. Alcohols, arsenites, bromides, iodides, charcoals, hydrochloric acid, organic material, ferrous or mercurous salt, hypophosphites, hyposulfites, sulfites, peroxides, oxalates.

Hazardous Decomposition Products Oxides of manganese may be present. Potassium hydroxide. When involved in fire, corrosive fumes or smoke may be formed.

Hazardous Polymerization	Conditions to Avoid		Not applicable.
	May Occur	Will Not Occur	
		X	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Use adequate ventilation. Avoid creating dust conditions. 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 use. If dusty, work in ventilation hood or wear a standard 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.
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Other Protective Equipment Smock, apron, eye wash station, proper gloves, goggles, ventilation hood.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place away from combustible material. Keep from contact with clothing. Remove and wash contaminated clothing promptly. Wash thoroughly after handling.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals.

Fire or high temperatures may cause explosive decomposition if confined. Avoid contact with skin, eyes and mucous membranes.

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

Revision No. 5	Date 7/13/98	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	POTASSIUM PERMANGANATE	<p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <tr> <td>HEALTH</td> <td>2</td> </tr> <tr> <td>FIRE</td> <td>0</td> </tr> <tr> <td>REACTIVITY</td> <td>3</td> </tr> </table> <p>HMIS *</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>	HEALTH	2	FIRE	0	REACTIVITY	3	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4
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FIRE	0																	
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Chemical Synonyms	Chameleon Mineral																	
Formula	KMnO ₄																	
Unit Size	up to 2.5 Kg.																	
C.A.S. No.	7722-64-7																	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Potassium Permanganate	100%	See Section V.

DANGER! STRONG OXIDIZER! CORROSIVE! CAUSES SEVERE BURNS. HARMFUL IF SWALLOWED.

CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE OR EXPLOSION.

SECTION III PHYSICAL DATA

Melting Point (°F)	Decomposes at 150°C (302°F).	Specific Gravity (H₂O = 1)	2.7032 at 25°C
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	Data not listed.	Evaporation Rate (n-Butyl Ac. =1)	Non-volatile (NA).
Vapor Density (Air=1)	5.47		
Solubility in Water	6.5 grams per 100 mL. water at 20°C (68°F).		
Appearance & Odor	Dark purple crystals, blue metallic sheen; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable (NA).	Flammable Limits in Air % by Volume	NA	Lower	Upper
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Extinguisher Media Water spray; dry chemical (ABC); carbon dioxide (CO₂).

SPECIAL FIREFIGHTING PROCEDURES

In 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. 140)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Powerful oxidizing material. Explosive in contact with sulfuric acid or hydrogen peroxide. Reacts violently with finely divided easily oxidizable substances. Increases flammability of combustible materials. May decompose spontaneously if exposed to intense heat. Spontaneously flammable on contact with glycerine and ethylene glycol.

D.O.T. POTASSIUM PERMANGANATE, 5.1, UN 1490, PG II

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