



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. PP 708  
Effective Date April 20, 1999

## SECTION V HEALTH HAZARD DATA

PP 708

### Threshold Limited Value

None established for these mixtures.

### Effects of Overexposure

**TARGET ORGANS AFFECTED:** Kidneys.  
Airborne concentrations of Potassium Permanganate in the form of dust, mist or spray may irritate and cause damage to the respiratory tract. Dilute solutions may be irritating to skin, eyes and mucous membranes. High concentrations are caustic, may cause burns.

### Emergency and First Aid Procedures

**EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INGESTION:** If swallowed, do **NOT** induce vomiting. If conscious, give several glasses of water to drink. Call physician immediately. Never give anything by mouth to an unconscious person. **INHALATION AS MIST:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

## SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Excessive temperature to cause evaporation. Prolonged exposure to air.
	Stable	X	

**Incompatibility (Materials to Avoid)** Acids, Hydrochloric acid, organic material, reducing agents, finely powdered metals, peroxides.

**Hazardous Decomposition Products** When involved in fire, corrosive fumes or smoke may be formed.

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** Absorb spill in vermiculite, sand, earth, paper towel and place in a suitable 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.

Reduce material in aqueous solution with sodium thiosulfate (Hypo), a bisulfite or ferrous salt. The bisulfite or ferrous salt may require some dilute sulfuric acid to promote rapid reduction. Neutralize with sodium bicarbonate to neutral pH if acid was used. Decant or filter and mix formed sludge with sodium carbonate and deposit in an approved landfill. Where permitted, the sludge can be drained into sewer with large quantities of water.

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection (Specify Type)** None needed in normal laboratory handling. If misty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved respirator.

Ventilation	Local Exhaust	Not required.	Special	No.
	Mechanical (General)	Not required.	Other	No.

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

**Other Protective Equipment** Lab coat, apron, eye wash station, proper gloves.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Keep container tightly closed. Store in a cool place. 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 skin, eyes and mucous membranes.  
Remove and wash contaminated clothing.

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

Revision No. 6	Date 4/20/99	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

<b>Product</b>	POTASSIUM PERMANGANATE SOLUTIONS*
<b>Chemical Synonyms</b>	0.01 N, 0.1 N, 1.0 N, 2% Aq. Sol'n.
<b>Formula</b>	Mixture.
<b>Unit Size</b>	up to 3.785 Lt.
<b>C.A.S. No.</b>	Mixture. See Section II.

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

NFPA  
HAZARD RATING  
LEAST SLIGHT MODERATE HIGH EXTREME  
0 1 2 3 4

Health	2
Fire	0
Reactivity	1

HMIS \*

3	4
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## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Potassium Permanganate: (CAS No. 7722-64-7)	0.15, 1.58, 15.8, 2%	None established.
Water: (CAS No. 7732-18-5)	84.2 - 99%	None established.
<b>WARNING! HARMFUL IF SWALLOWED. MAY</b>		

CAUSE IRRITATION TO SKIN AND EYES.

## SECTION III PHYSICAL DATA

Melting Point (°F)	Approx. 0°C (32°F)	Specific Gravity (H <sub>2</sub> O = 1)	Approx. 1.0
Boiling Point (°F)	Approx. 100°C (212°F)	Percent Volatile by Volume (%)	84-99%
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate (Water = 1)	<1
Vapor Density (Air=1)	0.7 (water)		
Solubility in Water	Complete.		
Appearance & Odor	Purple, water like liquid; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

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

### 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.

\* Molarity = Normality

### UNUSUAL FIRE AND EXPLOSION HAZARDS

In fire conditions resulting in the evaporation of the water solution, Potassium Permanganate 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 gaseous oxides of nitrogen when involved in fire.

D.O.T. NON-REGULATED.

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