



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. PP 530  
Effective Date April 19, 1999

## SECTION V HEALTH HAZARD DATA

PP 530

**Threshold Limited Value** None established. (ACGIH 1992-93). Toxicity data: Oral LD<sub>50</sub> (rat) 1600-3200 mg/kg.

**Effects of Overexposure** Ingestion may cause irritation, nausea. No adequate toxicity data were located, but apparently this material is comparatively benign. Local short term irritation of skin, eyes and mucous membranes possible. It is not decomposed to cyanide in the body. Rapidly excreted in the urine, apparently without metabolic alteration.

**Emergency and First Aid Procedures**  
**SKIN:** Flush thoroughly with water, then wash with mild soap and water.  
**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.  
**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Protect from light, heat, strong mineral acid or acid fumes.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** Strong acids or acid fumes.

**Hazardous Decomposition Products** Thermal decomposition will produce cyanide fumes and oxides of nitrogen.

<b>Hazardous Polymerization</b>		<b>Conditions to Avoid</b>	Not applicable.
<b>May Occur</b>	<b>Will Not Occur</b>		
	X		

## 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 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.

Dispose of waste in a sanitary or industrial landfill.

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection (Specify Type)** None should be needed in normal laboratory handling. If dusty conditions prevail, work in fume hood, or wear NIOSH/MSHA approved dust mask.

<b>Ventilation</b>	<b>Local Exhaust</b>	<b>Recommended.</b>	<b>Special</b>	No.
	<b>Mechanical (General)</b>	<b>Recommended.</b>	<b>Other</b>	No.

<b>Protective Gloves</b>	Rubber.	<b>Eye Protection</b>	Chemical safety glasses.
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**Other Protective Equipment** Smock, apron, eye wash station, ventilation hood, proper gloves.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool, dry place away from strong mineral acids and fire hazards. 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.

Protect from light. Keep material dry.  
Remove and wash contaminated clothing.

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

<b>Revision</b> No. 5	<b>Date</b> 4/19/99	<b>Approved</b> Michael Raszeja	<b>Chemical Safety Coordinator</b> MR
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## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

<b>Product</b>	POTASSIUM FERRICYANIDE	 <b>CHEMTREC</b> <b>800-424-9300</b> Day 716-226-6177 <b>NFPA HAZARD RATING</b> LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 <b>HMIS *</b> Health 1 Fire 0 Reactivity 1
<b>Chemical Synonyms</b>	Red Prussiate of Potash	
<b>Formula</b>	K <sub>3</sub> Fe(CN) <sub>6</sub>	
<b>Unit Size</b>	up to 2.5 Kg.	
<b>C.A.S. No.</b>	13746-66-2	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Potassium Ferricyanide	100%	See Section V.
<b>WARNING! MAY BE HARMFUL IF SWALLOWED.</b>		

## SECTION III PHYSICAL DATA

<b>Melting Point (°F)</b>	198.89°C (390°F) decomposes	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	1.85 @ 17°C
<b>Boiling Point (°F)</b>	Decomposes	<b>Percent Volatile by Volume (%)</b>	Non-volatile (NA).
<b>Vapor Pressure (mm Hg)</b>	N/A	<b>Evaporation Rate (n-Butyl Ac. =1)</b>	Non-volatile (NA).
<b>Vapor Density (Air=1)</b>	N/A		
<b>Solubility in Water</b>	33 grams per 100 mL. water at 4°C.		
<b>Appearance &amp; Odor</b>	Bright orange-red crystals; 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>	N/A	<b>Lower</b>	<b>Upper</b>
<b>Extinguisher Media</b>	Water spray; carbon dioxide (CO <sub>2</sub> ); dry chemical (ABC).				

### 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. Use flooding amounts of water as fog or spray in early stages of fire.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Dangerous when heated to decomposition or on contact with acids or acid fumes; it emits highly toxic fumes of cyanide gas which can form explosive mixture with air.

D.O.T. NON-REGULATED.

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