



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. PP 240  
Effective Date April 13, 1999

## SECTION V HEALTH HAZARD DATA

PP 240

**Threshold Limited Value** TWA: 5 mg/m<sup>3</sup> as Molybdenum [CAS No. 7439-98-7]. (ACGIH 1992-93).  
Animal toxicity data: Oral LD50 (Rat) 800-1600 mg/kg-slightly toxic.

**Effects of Overexposure** **TARGET ORGANS AFFECTED:** None. **EYES:** Causes pain, burns and corneal damage. **SKIN:** Contact causes severe pain, burns, tissue damage. **INHALATION:** May cause coughing, choking, headache, dizziness. **INGESTION:** May cause severe burning pain in the mouth, pharynx and abdomen. Vomiting, diarrhea of dark precipitated blood. Asphyxia may occur.

**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:** Wash with mild soap and water. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **INGESTION:** If swallowed, do NOT induce vomiting. If conscious, give milk or milk of magnesia. Get immediate medical attention. Never give anything by mouth to an unconscious person.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Excessive temperature and heat, moisture.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** Bases, reducing agents.

**Hazardous Decomposition Products** Oxides of phosphorous and molybdenum may be present. Decomposes at approx. 500°C to form phosphorous pentoxide fumes (P<sub>2</sub>O<sub>5</sub>) and (MoO<sub>3</sub>).

<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** Ventilate area. Wear protective gear. Sweep up and place in a suitable container for 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 in an approved chemical landfill or contract with a licensed waste disposal agency.

## SECTION VIII SPECIAL PROTECTION INFORMATION

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

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

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

**Other Protective Equipment** Smock, apron, eye wash station, goggles, proper gloves, ventilation hood.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool, dry 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. Remove and wash contaminated clothing. Use with adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid inhalation of dust or vapors.

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

<b>Revision</b> No. 4	<b>Date</b> 4/13/99	<b>Approved</b> Michael Raszeja	<b>Chemical Safety Coordinator</b> 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>	PHOSPHOMOLYBDIC ACID	 <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 FIRE REACTIVITY 2 0 1
<b>Chemical Synonyms</b>	Molybdophosphoric Acid	
<b>Formula</b>	H <sub>3</sub> PMo <sub>12</sub> O <sub>40</sub> •xH <sub>2</sub> O	
<b>Unit Size</b>	up to 500 grams	
<b>C.A.S. No.</b>	11104-88-4	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Phosphomolybdic Acid	100%	See Section V.
<b>DANGER! CORROSIVE! HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. CAUSES BURNS TO SKIN AND EYES.</b>		

## SECTION III PHYSICAL DATA

Melting Point (°F)	78-90°C (172-194°F)	Specific Gravity (H <sub>2</sub> O = 1)	2.53-3.15
Boiling Point (°F)	Data not listed.	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (n-Butyl Ac. =1)	N/A
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	Soluble.		
Appearance & Odor	Bright yellow, crystalline solid; 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>	Dry chemical; carbon dioxide (CO <sub>2</sub> ).				

### 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. 154)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may cause production of hazardous decomposition products of oxides of phosphorous (PO<sub>x</sub>). Forms oxidizing solutions in water.

D.O.T. CORROSIVE SOLIDS, N.O.S., (PHOSPHOMOLYBDIC ACID), 8, UN 1759, PG III

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