



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.  
Avon, New York 14414  
(716) 226-6177

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

Stability	Unstable		Conditions to Avoid	Excessive temperature and heat, moisture.
	Stable	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> ).
----------------------------------	--

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	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.
---------------------------------------	---

Ventilation	Local Exhaust	If needed.	Special	No.
	Mechanical (General)	If needed.	Other	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.
---	--

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.

Revision	No. 4	Date	4/13/99	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
----------	-------	------	---------	----------	-----------------	-----------------------------	----

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	PHOSPHOMOLYBDIC ACID	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * 3 4
Chemical Synonyms	Molybdophosphoric Acid	
Formula	H <sub>3</sub> PMo <sub>12</sub> O <sub>40</sub> •xH <sub>2</sub> O	
Unit Size	up to 500 grams	
C.A.S. No.	11104-88-4	

## SECTION II INGREDIENTS OF MIXTURES

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

## 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

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	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