



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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

MSDS No. PP 239
Effective Date June 10, 1998

SECTION V HEALTH HAZARD DATA

PP 239

Threshold Limited Value

RTECS No. TB6300000 Toxicity data: Orl-rat LD50: 1530 mg/kg.;
skin-rab LD50: 2740 mg/kg.

Effects of Overexposure

INGESTION: May cause sore throat, abdominal pain, nausea, severe burns of mouth, throat and stomach. **INHALATION:** May cause severe irritation of the respiratory system. **EYES:** May cause redness, pain, burns, permanent visual damage. **SKIN:** May cause redness, pain, burns.

Emergency and First Aid Procedures

INGESTION: If swallowed, do **NOT** induce vomiting. If conscious, give water, milk or milk of magnesia. Get immediate medical attention. Never give anything by mouth to an unconscious person. **INHALATION:** Remove to fresh air. If illness or discomfort develops, get medical attention. **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.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid
	Stable	X Excessive temperature, heat.

Incompatibility (Materials to Avoid)	Most common metals, strong bases, alkalies.
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Hazardous Decomposition Products	Oxides of phosphorus.
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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	Wear full protective equipment. Ventilate area. Neutralize with soda ash or lime. Absorb with vermiculite, dry sand or earth. Place in proper container for disposal.
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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.
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Dispose of in an accordance with local, state and federal regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)		High efficiency particulate respirator is recommended. NIOSH/MSHA-approved self-contained breathing apparatus.	
Ventilation	Local Exhaust	Recommended.	Special
	Mechanical (General)	Recommended.	Other
Protective Gloves		Rubber.	Eye Protection
Other Protective Equipment		Lab coat, apron, eye wash station, proper gloves, face shield, ventilation hood.	

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry, well-ventilated area. Protect against physical damage. Keep away from fire hazards. Wash thoroughly after handling.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
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Avoid contact with skin, eyes and clothing. Avoid breathing vapors. Use with adequate ventilation. Remove and wash contaminated clothing.

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

Revision	No. 2	Date	6/10/98	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	PHOSPHORIC ACID, 85%
Chemical Synonyms	Ortho-phosphoric acid
Formula	H ₃ PO ₄
Unit Size	up to 4 Lt.
C.A.S. No.	7664-38-2

0
2
0

0
0
0

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 2
HMIS *
3 4

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Phosphoric Acid	85-100%	1 mg/m ³ (TWA)
		3 mg/m ³ (STEL)
DANGER! CORROSIVE!		
CAUSES SEVERE BURNS. HARMFUL IF SWALLOWED.		

SECTION III PHYSICAL DATA

Melting Point (°F)	21°C (70°F)	Specific Gravity (H ₂ O = 1)	1.71
Boiling Point (°F)	158°C (316°F)	Percent Volatile by Volume (%)	Not applicable.
Vapor Pressure (mm Hg)	2.2	Evaporation Rate (≈1)	Not applicable.
Vapor Density (Air=1)	3.4		
Solubility in Water	Complete.		
Appearance & Odor	Colorless, syrupy liquid; odorless.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Not applicable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Water spray, carbon dioxide, dry chemical, foam.				

SPECIAL FIREFIGHTING PROCEDURES

Use water to keep fire exposed containers cool. Wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 154)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Contact with common metals produces hydrogen which may form flammable mixtures with air. Gives off flammable vapors. Closed containers exposed to heat may explode.

D.O.T. PHOSPHORIC ACID, 8, UN 1805, PG III

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