



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. PP 360  
Effective Date April 13, 1999

## SECTION V HEALTH HAZARD DATA

PP 360

### Threshold Limited Value

None established. (ACGIH 1992-93). RTECS No. RO3600000  
Toxicity data: Orl-wmn TDL<sub>0</sub> 100 mg/kg, ivn-man TDL<sub>0</sub> 1071 mg/kg.

### Effects of Overexposure

**TARGET ORGANS AFFECTED:** Kidneys. **INHALATION:** Of dust may cause irritation of mucous membranes. **SKIN AND EYES:** Strong irritant. Skin contact may have a corrosive action with dermatitis and possible ulceration from prolonged contact. **INGESTION:** Highly toxic. Symptoms of nausea, shock, convulsions and collapse occur rapidly.

### Emergency and First Aid Procedures

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **EYES:** Flush thoroughly with water for 15 minutes, lifting lower and upper eyelids occasionally. Get prompt medical attention. **INGESTION:** If swallowed, if conscious, give large quantities of milk or water. DO NOT induce vomiting. Call physician immediately. Never give anything by mouth to an unconscious person.

## SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Reducing agents, water, acids, powdered metals. Excessive temperature and heat.
	Stable	X		

Incompatibility (Materials to Avoid)	Silver compounds, strong oxidizing material, reducing materials, concentrated sulfuric acid, alkalis.
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Hazardous Decomposition Products	Reacts explosively with chlorites and hypochlorites. When heated to decomposition yields carbon monoxide, carbon dioxide, water and formic acid.
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Hazardous Polymerization	Conditions to Avoid	Not applicable.
May Occur		
		X

## SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Recover if possible for reuse. Carefully sweep up without producing dust and place in a suitable container for proper disposal. Wash spill area with soap and water.
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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 approved incinerator or contract with a licensed waste disposal service.

## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None should be needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved respirator.
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Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Goggles, smock, apron, eye wash station, proper gloves, ventilation hood.
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## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place. Separate from oxidizable materials. Use with adequate ventilation. 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 breathing dust. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing.

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

Revision No. 5	Date 4/13/99	Approved Michael Raszeja	Chemical Safety Coordinator MR
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The information contained herein is furnished without warranty of any kind. Employees 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	POTASSIUM BINOXALATE	 <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						
Chemical Synonyms	Potassium Acid Oxalate, Salt of Sorrel							
Formula	C <sub>2</sub> HKO <sub>4</sub> • H <sub>2</sub> O							
Unit Size	up to 500 g.							
C.A.S. No.	127-95-7 (Anhydrous)	<table border="1"> <tr> <td>Health</td> <td>3</td> </tr> <tr> <td>Fire</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>1</td> </tr> </table>	Health	3	Fire	0	Reactivity	1
Health	3							
Fire	0							
Reactivity	1							

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Potassium Binoxalate	100%	None established.
<b>DANGER! POISON</b>		
<b>MAY BE FATAL IF SWALLOWED.</b>		
<b>CAUSES SKIN AND EYE IRRITATION.</b>		

## SECTION III PHYSICAL DATA

Melting Point (°F)	Decomposes at 460°C (860°F)	Specific Gravity (H <sub>2</sub> O = 1)	2.088 at 20°C
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate	(=1) Non-volatile (NA).
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	3 grams per 100 mL. water at 20°C.		
Appearance & Odor	White transparent crystals or white powder; no odor. Hygroscopic.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable (NA).	Flammable Limits in Air % by Volume	NA	Lower	Upper
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Extinguisher Media	Water spray; dry chemical (ABC); "Alcohol" foam or carbon dioxide (CO <sub>2</sub> ).
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### SPECIAL FIREFIGHTING PROCEDURES

Foam or water on molten Potassium binoxalate may cause frothing. In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus; wear goggles if eye protection is not provided.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 151)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Dangerous, by chemical reaction; powerful oxidizing agent. When involved in fire, Potassium binoxalate emits highly toxic and irritating fumes. Decomposition products may include carbon monoxide and formic acid. Explosion hazard: Moderate by chemical reaction with water, acids, powdered metals. Disaster hazard: Dangerous; will react with water or steam to produce heat and toxic fumes; can react vigorously with reducing materials.

D.O.T. Toxic solid, inorganic, n.o.s., (Potassium binoxalate) 6.1, UN 3288, PG III

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