



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. PP 680  
Effective Date April 20, 1999

## SECTION V HEALTH HAZARD DATA

PP 680

**Threshold Limited Value** None established (ACGIH 1992-93). MLD S.C. in mice: 150 mg per kg.  
Nuisance dust: Respiratory fraction - 5 mg/m<sup>3</sup>; Total dust - 1 mg/m<sup>3</sup>.

**Effects of Overexposure** **TARGET ORGANS AFFECTED:** Kidneys, liver, central nervous system.  
**SKIN AND EYES:** May cause severe eye and skin irritation or burns.  
**INHALATION:** Causes severe irritation to mucous membranes and upper respiratory tract. **INGESTION:** Has caustic effect on mouth, esophagus and stomach. May cause gastroenteritis, with pain and vomiting.

**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:** Flush thoroughly with water, then wash with mild soap and water. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. **INGESTION:** If swallowed, if conscious, give large quantities of milk to drink. 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** Excessive temperature and heat.  
**Stable** X

**Incompatibility (Materials to Avoid)** Strong oxidizers.

**Hazardous Decomposition Products** Thermal decomposition may release toxic fumes of carbon monoxide and potassium oxides.

**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 suitable protective clothing. Sweep up and place in a suitable container for proper disposal. Flush spill area with 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 incinerator or contract with an approved and licensed disposal agency.

## SECTION VIII SPECIAL PROTECTION INFORMATION

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

**Ventilation** **Local Exhaust** Recommended. **Special** No.  
**Mechanical (General)** Recommended. **Other** No.

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

**Other Protective Equipment** Goggles, 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 sources of heat or ignition. 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.  
Avoid contact with skin and eyes. Do not take internally. Avoid breathing dust. 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. 6 **Date** 4/20/99 **Approved** Michael Raszeja **Chemical Safety Coordinator** MR

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## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

<b>Product</b>	POTASSIUM OXALATE, MONOHYDRATE
<b>Chemical Synonyms</b>	Oxalic Acid Dipotassium Salt
<b>Formula</b>	K <sub>2</sub> C <sub>2</sub> O <sub>4</sub> •H <sub>2</sub> O
<b>Unit Size</b>	up to 2.5 Kg.
<b>C.A.S. No.</b>	6487-48-5

**CHEMTREC**  
800-424-9300  
Day 716-226-6177

**NFPA HAZARD RATING**  
LEAST SLIGHT MODERATE HIGH EXTREME  
0 1 2 3 4

**HMIS \***  
Health 3  
Fire 0  
Reactivity 1

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
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Potassium Oxalate	100%	None established.
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DANGER! MAY BE FATAL IF SWALLOWED OR INHALED.		
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SEVERE IRRITANT TO SKIN, EYES AND MUCOUS MEMBRANES.		
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## SECTION III PHYSICAL DATA

Melting Point (°F)	Loses H <sub>2</sub> O @ 160°C (320°F)	Specific Gravity (H <sub>2</sub> O = 1)	2.127 at 39°C
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Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	Non-volatile (NA).
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Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate ( )	Non-volatile (NA).
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Vapor Density (Air=1)	Data not listed.		
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Solubility in Water	33 grams per 100 mL. water at 20°C.		
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Appearance & Odor	Colorless, transparent crystals or powder; no odor.		
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## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	Non-flammable (NA).	<b>Flammable Limits in Air % by Volume</b>	NA	<b>Lower</b>	<b>Upper</b>
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<b>Extinguisher Media</b>	Water spray; carbon dioxide (CO <sub>2</sub> ); dry chemical (ABC).				
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## 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. Avoid inhalation of gases.

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

## UNUSUAL FIRE AND EXPLOSION HAZARDS

Dangerous when heated to decomposition, emits toxic fumes. Can react vigorously with oxidizing materials.

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

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