



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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

MSDS No. PP 719  
Effective Date April 20, 1999

## SECTION V HEALTH HAZARD DATA

PP 719

**Threshold Limited Value** None established. (ACGIH 1992-93).  
Toxicity data oral rat LD50: 1130 mg/kg.

**Effects of Overexposure** Moderately toxic, however, in some individuals repeated skin contact may result in irritation or allergic skin reaction, which readily disappears when further contact is avoided. **INGESTION:** Harmful if swallowed. May cause digestive irritation. **INHALATION:** May cause respiratory tract irritation with coughing, choking and possible burns of the mucous membranes.

**Emergency and First Aid Procedures**  
**EYES:** Flush thoroughly with water for 15 minutes, lifting lower and upper eyelids occasionally. If irritation develops or persists, get medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. **INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink. Induce vomiting and call physician. Never give anything by mouth to an unconscious person. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	High temperatures. Moisture.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** Acids strong reducers, organic materials, oxidizable materials, combustibles. May react with moisture to give oxygen and oxides of sulfur.

**Hazardous Decomposition Products** Thermal decomposition or burning may produce oxides of sulfur, oxides of nitrogen, and oxygen.

<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**  
Eliminate ignition sources. Ventilate area. Sweep up and place in suitable container for proper disposal. Wash spill area well 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 chemical landfill 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 fume hood or wear NIOSH/MSHA-approved dust mask.

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

<b>Protective Gloves</b>	Rubber.	<b>Eye Protection</b>	Chemical safety glasses.
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**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 separate from combustible, organic or other readily oxidizable materials. 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.  
Gradually decomposes, losing available oxygen; decomposes more quickly at higher temperatures; completely decomposes at about 100°C. Remove and launder contaminated clothing promptly.

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

<b>Revision</b> No. 6	<b>Date</b> 4/20/99	<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>	POTASSIUM PERSULFATE	 <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> 0 1 2 3 4
<b>Chemical Synonyms</b>	Potassium Peroxydisulfate	
<b>Formula</b>	K <sub>2</sub> S <sub>2</sub> O <sub>8</sub>	
<b>Unit Size</b>	up to 2.5 Kg.	
<b>C.A.S. No.</b>	7727-21-1	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Potassium Persulfate	99% min.	None established.
<b>DANGER! STRONG OXIDIZER. CONTACT WITH OTHER</b>		
<b>MATERIAL MAY CAUSE FIRE. HARMFUL IF SWALLOWED.</b>		
<b>AVOID CONTACT WITH EYES AND SKIN.</b>		

## SECTION III PHYSICAL DATA

<b>Melting Point (°F)</b>	Decomposes <100°C (212°F).	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	2.477 at 20°C
<b>Boiling Point (°F)</b>	Decomposes.	<b>Percent Volatile by Volume (%)</b>	N/A
<b>Vapor Pressure (mm Hg)</b>	Negligible as solid.	<b>Evaporation Rate ( =1)</b>	N/A
<b>Vapor Density (Air=1)</b>	9.35		
<b>Solubility in Water</b>	2 grams per 100 mL. water at 20°C.		
<b>Appearance &amp; Odor</b>	White crystals or crystalline powder; 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>
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**Extinguisher Media** Water spray; carbon dioxide (CO<sub>2</sub>); dry chemical.

### SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 140)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Oxidizing material. Increases flammability of combustible, organic or other readily oxidizable materials. Fire liberates oxygen at 212°F (100°C) and when in solution at 122°F (50°C). Dangerous when heated to decomposition, it emits highly toxic fumes of oxides of sulfur; can react with reducing materials.

D.O.T. POTASSIUM PERSULFATE, 5.1, UN 1492, PG III

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