



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. AA 309  
Effective Date January 23, 1999

## SECTION V HEALTH HAZARD DATA

AA 309

**Threshold Limited Value** None established for this mixture. Ammonium Persulfate: Toxicity data: Orl-rat LD50: 820 mg/kg.

**Effects of Overexposure** May be harmful by ingestion. May cause irritation. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.

**Emergency and First Aid Procedures**  
**INHALATION:** Remove to fresh air. Get medical attention for any breathing difficulty. **INGESTION:** If swallowed, if conscious, give several glasses of water to drink to dilute. Vomiting may occur spontaneously, but do NOT induce. Get medical attention immediately. Never give anything by mouth to an unconscious person. **SKIN:** Remove any contaminated clothing. Wipe off excess from skin. Wash skin with plenty of water for at least 15 minutes. Get medical attention promptly. **EYES:** Flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>	X	<b>Conditions to Avoid</b>	Excessive temperature and heat to cause evaporation.
	<b>Stable</b>			

**Incompatibility (Materials to Avoid)** Reducing agents, organic material, sodium peroxide, water and powdered metals especially aluminum, acids, alkalis, Halides, fluorides, chlorides, combustible materials, oxidizable materials.

**Hazardous Decomposition Products** Thermal decomposition may release oxygen, sulfur and nitrogen oxides. Fumes of sulfuric acid mist.

<b>Hazardous Polymerization</b>	<b>May Occur</b>	<b>Will Not Occur</b>	<b>Conditions to Avoid</b>	Not applicable.
		X		

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled** Absorb with an inert dry material, 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.  
Small spills may be reduced with excess concentration hypo solution (acidified with dilute sulfuric acid), neutralized with soda ash and flushed with large amounts of water to drain.

## SECTION VIII SPECIAL PROTECTION INFORMATION

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

<b>Ventilation</b>	<b>Local Exhaust</b>	Not required.	<b>Special</b>	No.
	<b>Mechanical (General)</b>	Not required.	<b>Other</b>	No.

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

**Other Protective Equipment** Goggles, proper gloves, eye wash station, lab coat, ventilation hood.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool, dry area away from fire hazards. Keep away from heat and combustible materials.  
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, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing promptly.

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

<b>Revision</b> No. 2	<b>Date</b> 1/23/99	<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>	AMMONIUM PERSULFATE 0.1 MOLAR SOLUTION	 <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> Health 1 Fire 0 Reactivity 0
<b>Chemical Synonyms</b>	Ammonium Persulfate Aqueous Solution	
<b>Formula</b>	Mixture.	
<b>Unit Size</b>	up to 4 Lt.	
<b>C.A.S. No.</b>	Mixture.	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Ammonium Persulfate: (CAS No. 7727-54-0)	2.28%	See Section V.
Water: (CAS No. 7732-18-5)	97.72%	

**WARNING! MAY BE HARMFUL IF SWALLOWED. IRRITANT.**

## SECTION III PHYSICAL DATA

<b>Melting Point (°F)</b>	Freezes @ approx. 0°C (32°F)	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	Approx. 1.0
<b>Boiling Point (°F)</b>	Approx. 100°C (212°F)	<b>Percent Volatile by Volume (%)</b>	97.72%
<b>Vapor Pressure (mm Hg)</b>	14 (water)	<b>Evaporation Rate (Water = 1)</b>	Slightly < 1.
<b>Vapor Density (Air=1)</b>	0.7 (water)		
<b>Solubility in Water</b>	Complete.		
<b>Appearance &amp; Odor</b>	Clear, water-white, water-like liquid; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	Not combustible.	<b>Flammable Limits in Air % by Volume</b>	N/A	<b>Lower</b>	<b>Upper</b>
<b>Extinguisher Media</b>	In fire conditions, flood with water.				

### SPECIAL FIREFIGHTING PROCEDURES

In the event of a fire, wear protective clothing and NIOSH/MSHA-approved self-contained breathing apparatus.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

In fire conditions, water may evaporate from this solution, which may cause hazardous decomposition products to be produced as dust or fume.

D.O.T. **NON REGULATED.**

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