



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

221 Rochester Street
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MSDS No.: AA0307
Effective Date: January 1, 2007

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Ammonium Persulfate
Chemical Synonyms	Ammonium Peroxydisulfate
Formula	(NH ₄) ₂ S ₂ O ₈
Unit Size	up to 2.5 Kg.
C.A.S. No.	7727-54-0

	CHEMTREC 800-424-9300 Day 585-226-6177	Health	1
		Fire	0
		Reactivity	3
NFPA		HMIS*	
HAZARD RATING		MINIMAL	SLIGHT
		MODERATE	SERIOUS
		SEVERE	
		0	1
		2	3
		4	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Ammonium persulfate	100%	TWA: 0.1 mg/m ³
DANGER! STRONG OXIDIZER! HARMFUL IF SWALLOWED OR INHALED.		

SECTION III PHYSICAL DATA

Melting Point (°F)	Decomposes at 120°C (248°F)	Specific Gravity (H ₂ O = 1)	1.92
Boiling Point (°F)	Not applicable.	Percent Volatile by Volume (%)	Non-volatile.
Vapor Pressure (mm Hg)	Data not available.	Evaporation Rate (Butyl acetate =1)	Not applicable.
Vapor Density (Air=1)	7.9		
Solubility in Water	Soluble.		
Appearance & Odor	White crystalline solid; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Not combustible.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	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 with full facepiece operated in the pressure demand or other positive mode. Sealed containers may rupture when heated. Do not use carbon dioxide or other gas-filled fire extinguishers, they will have no effect on decomposing persulfate.

(2004 EMERGENCY RESPONSE GUIDEBOOK, RSPA P 5800.9, GUIDE PAGE NO. 140)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Not combustible, but substance is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Heating or contact with water releases oxygen which may intensify combustion in an existing fire. This material is an explosion hazard when mixed with finely powdered organic matter, metal powder, or reducing agents.

SECTION V HEALTH HAZARD DATA AA0307

Threshold Limited Value TWA: 0.1 mg/m³ Toxicity data: Ori-rat LD50: 689 mg/kg.

Effects of Overexposure Harmful by inhalation, ingestion or skin absorption. Material may be destructive to tissues of the eyes, skin, mucous membranes and respiratory tract. Symptoms of overexposure may include burning, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. Target organs: None known.

Emergency and First Aid Procedures
INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. **EYES:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Decomposes with temperatures > 320°F releasing oxygen.
	Stable	X	

Incompatibility (Materials to Avoid) Strong reducing agents, alkalies and finely powdered metals. May decompose on exposure to moist air or water.

Hazardous Decomposition Products Thermal decomposition may release oxygen, sulfur and nitrogen oxides.

Hazardous Polymerization	Conditions to Avoid
May Occur	Will Not Occur
	X
Not applicable.	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Recover for reclamation or cover with dry lime or soda ash. Sweep up and place in suitable container for proper 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.

Dispose of in accordance with all federal, state and local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) If dusty conditions prevail, work in ventilation hood and wear a NIOSH/MSHA-approved dust mask or vapor respirator.

Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	Adequate to maintain below exposure limit.

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

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

Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Wash thoroughly after handling. Remove and wash contaminated clothing promptly.

D.O.T. Ammonium persulfate, 5.1, UN1444, PG III, Ltd Qty ≤ 5 Kg

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

Revision No. 6	Date 01/01/07	Approved James A. Bertsch	Chemical Safety Coordinator JAB
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