MATERIAL SAFETY DATA SHEET

ALDON CORPORATION
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MSDS No. AA 307
Effective Date January 23, 1999

SECTION I NAME

Product	AMMONIUM PERSULFATE
Chemical Synonyms	Ammonium Peroxydisulfate
Formula	$(NH_4)_2S_2O_8$
Unit Size	up to 2.5 Kg.
C.A.S. No.	7727-54-0

24 HOUR EMERGENCY ASSISTANCE

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

NFPA HAZARD RATING

LEAST	SLIGHT	MODERATE	HIGH	EXTREME
0	1	2	3	4

HMIS *	
Health	1
Fire	0
Reactivity	3

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Ammonium Persulfate	100%	See Section V.
DANGER! STRONG OXIDIZER! CONTACT WITH OTHER MATERIAL		
MAY CAUSE FIRE. HARMFUL IF SWALLOWED. CAUSES BURNS.		

SECTION III PHYSICAL DATA

Melting Point (°F)	Decomposes at 120°C (248°F)	Specific Gravity (H_2O = 1)	1.982
Boiling Point (°F)	Not applicable.	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	Data not available.	Evaporation Rate (Butyl Acet. =1)	Not applicable.
Vapor Density (Air=1)	Data not available.		
Solubility in Water	80 g/100 mL. water at 25°C (77°F).		
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	Lower: NA	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.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, 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.

D.O.T. **AMMONIUM PERSULFATE, 5.1, UN 1444, PG III**

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

SECTION V HEALTH HAZARD DATA AA 307

Threshold Limited Value

RTECS No. SE0350000 TLV-TWA 2 mg$(S_2O_8)/m^3$. Toxicity data: Orl-rat LD50: 820 mg/kg.

Effects of Overexposure

INHALATION: May irritate the mucous membranes. Symptoms may include sore throat, shortness of breath, inflammation of nasal passage and coughing. **INGESTION:** Corrosive. May produce abdominal pain, nausea and vomiting. **SKIN CONTACT:** Corrosive. May cause skin burns. **EYE CONTACT:** May cause severe irritation and pain. **CHRONIC EXPOSURE:** Prolonged skin contact may cause an allergic reaction with dermatitis.

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

Stability	**Unstable**	X	**Conditions to Avoid**	Decomposes with exothermic reaction. Contact with water releases oxygen, which supports combustion.
	Stable			

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: Decomposed by moisture to form oxygen and ozone. Thermal decomposition may release oxygen, sulfur and nitrogen oxides. Fumes of sulfuric acid mist.

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 of leak or spill. Clean-up personnel may require protective clothing and respiratory protection from dust. Spills: Sweep up and containerize for reclamation or disposal. Do not place contaminated material in sealed containers and do not mix with other waste. Avoid dust dispersal.

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.

Whatever cannot be saved for reclamation may be disposed as hazardous waste in a RCRA approved waste disposal facility. 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): In laboratory, work in fume hood and wear a NIOSH/MSHA-approved dust mask. A system of local exhaust is recommended to keep exposure below Airborne Exposure Limits.

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

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

Keep container tightly closed when not in use.

Store in a cool, dry area away from fire hazards. Keep away from heat and combustible materials.

Other Precautions

Read label on container before using. Do not wear contact lenses when working with chemicals.

Avoid contact with skin, eyes and clothing. Use with adequate ventilation. 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.

Revision	Date	Approved	Chemical Safety Coordinator
No. 4	1/23/99	Michael Raszeja	MR