

PC102 APS**PYCOSA Chemicals, Inc.**

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Effective Date: 02/2002 Prepared by: Roger Borremans

The following information includes safety data required by OSHA. The recipient of this safety data is responsible for passing the safety information on so that it reaches the ultimate user who may come in contact with the material.

Emergency Phone: (800) 424 9300

NFPA 704 Hazard Rating

Health 2

Fire 0

Reactivity 1

Other Oxidizer

Section 1. Material Identification**Synonyms:** Ammonium Peroxydisulfate; Peroxydisulfuric Acid, Diammonium Salt; Diammonium peroxydisulfate**CAS No.:** 7727-54-0**Molecular Weight:** 228.2**Chemical Formula:** (NH₄)₂S₂O₈**Section 2. Hazardous Ingredients**

Product	C.A.S. No.	P.E.L. expressed in mg/m ³	STEL TLV	Percent
Ammonium Persulfate	7727-54-0		5.0	99.0-100.0%

This product contains material that is subject to the reporting requirements of Sara Title III section 313 (see section 11 of this MSDS)

P/I: Proprietary Information

Section 3. Physical Data**Physical Form:** Crystals**Color:** White**Odor:** Odorless**Boiling Point:** N/D**Melting Point:** 248°F (120°C) decomposes**Vapor Pressure:** N/D**Viscosity:** N/D**Specific Gravity:** N/D**H₂O Solubility:** soluble at 80g/100g in water**Section 4. Fire and Explosion Data****Flash Point:** N/D**Autoignition Temperature:** N/D**Extinguishing Media:** Do not use water. Use any means suitable for extinguishing surrounding fire.

Unusual Fire or 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. An explosion hazard when mixed with finely powdered organic matter, metal powder, or reducing agents.

Fire Fighting Procedures: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Section 5. Reactivity Data**Stability:** Stable under ordinary conditions of use and storage. Stability decreases in the presence of moisture.

Hazardous Decomposition Products: Decomposed by moisture to form oxygen and ozone. Burning may produce nitrogen oxides, sulfur oxides, and sulfuric acid.

Hazardous Polymerization: No.

Incompatibilities: Reducing agents, organic material, sodium peroxide, water and powdered metals especially aluminum.

Conditions to Avoid: Moisture, combustible materials and incompatibles.

Section 6. Health Hazards Data**FIRST AID PROCEDURES****Inhalation:**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion:

Do NOT induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Call a physician.

Skin Contact:

Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Section 7. Employee Protection Recommendations**Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. This substance has unknown warning properties. For emergencies or instances where the exposure levels are not known, use a full -face positive-pressure, air-supplied respirator.

Skin Protection:

Rubber or neoprene gloves and additional protection including impervious boots, apron, or coveralls, as needed in areas of unusual exposure.

Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Other Control Measures:

Comments: Stress good personal cleanliness and housekeeping to prevent skin contact. Wear clean work clothing daily. Do not home launder. If clothes become contaminated, remove at once, wash the skin with soap and water and launder clothing before reuse. Destroy contaminated leather goods.

Section 8. Spill and Leak Procedures

Notify safety personnel, isolate and ventilate the area. Stay up wind. Remove all ignition sources. Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 9. Special Precautions

Storage: Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Separate from combustibles, organic or other readily oxidizable materials. Avoid storage on wood floors. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

Section 10. Toxicological Information

Oral rat LD50: 689 mg/kg

Section 11. Transportation

DOT Shipping name: Ammonium Persulfate

DOT Hazard Class: 5.1

ID No.: UN 1444

DOT Packing Group: III

Packing Instr.: N/D

DOT Label: Oxidizer

Section 12. Federal Regulatory Information

SARA 311/312: Acute: Yes

Chronic: Yes

Fire: No

Pressure: No

Reactivity: Yes (Pure/Solid)

CERCLA Reportable Quantity: none

The information contained herein is furnished without warranty of any kind. Users should consider this data 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 and disposal of these materials and the safety and health of employees and customers.

N/A - Not Applicable

N/D - Not Determined

37
< - Less Than

> - Greater Than

~ - Approximately