MATERIAL SAFETY DATA SHEET

Product: Ammonium Persulfate
Chemical Synonyms: Ammonium Peroxydisulfate
Formula: \( \text{NH}_4\text{S}_2\text{O}_8 \)
Unit Size: up to 2.5 Kg.
C.A.S. No.: 7727-54-0

SECTION I NAME

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s) % TLV Units
Ammonium persulfate 100% TWA: 0.1 mg/m³

SECTION III PHYSICAL DATA

Melting Point (°F) Decomposes at 120°C (248°F)
Boiling Point (°F) Not applicable.
Vapor Pressure (mm Hg) Data not available.
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.
Extinguisher Media In fire conditions, flood with water.

SECTION V HEALTH HAZARD DATA

Threshold Limited Value TWA: 0.1 mg/m³ Toxicity data: Orl-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 Incompatibility (Materials to Avoid)
Conditions to Avoid Conditions to Avoid
Decomposes with temperatures > 320°F Strong reducing agents, alkalies and finely powdered metals. May decompose on exposure to moist air or water.

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.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) Mechanical (General) Recommended. Adequate to maintain below exposure limit.
Ventilation Local Exhaust Recommended. Other

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.

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

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

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

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