MATERIAL SAFETY DATA SHEET

SECTION I NAME
Product: Ammonium Sulfate
Chemical Synonyms: Mascagnite; Diammonium Sulfate
Formula: \((NH_4)_2SO_4\)
Unit Size: up to 2.5 Kg.
C.A.S. No.: 7783-20-2

SECTION II INGREDIENTS OF MIXTURES
Principal Component(s) % TLV Units
Ammonium sulfate 100% None established.

WARNING! MAY BE HARMFUL IF SWALLOWED.

SECTION III PHYSICAL DATA
Melting Point (°F) Decomposes above 280°F (536°F)
Boiling Point (°F) N/A
Vapor Pressure (mm Hg) N/A
Vapor Density (Air=1) N/A
Solubility in Water 70.6 grams per 100 mL. water at 0°C.
Appearance & Odor Brownish-gray to white crystals; odorless.

SECTION IV FIRE AND EXPLOSION HAZARD DATA
Flash Point (Method Used) Non-combustible.
Flammable Limits in Air % by Volume N/A
Lower Upper
Extinguisher Media Use any media suitable for extinguishing supporting fire.

SPECIAL FIREFIGHTING PROCEDURES
In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS
Noncombustible. Decomposes above 100°C to toxic ammonia gas. Melts and decomposes with emission of a mixture of ammonia and sulfur trioxide at about 455°F. If accidentally mixed with oxidizers like potassium chlorate, potassium nitrate, or potassium nitrite there is an explosion hazard during a fire.

SECTION V HEALTH HAZARD DATA
Threshold Limited Value None established for this product (ACGIH 2001).
RTECS No. BS450000 Toxicity studies: Oral-rat LD50: 3000 mg/Kg.

Effects of Overexposure
Inhalation of dusts may be irritating to lungs and mucous membranes. Causes sneezing, mild nosebleed to sensitized persons. Ingestion may cause irritation to digestive tract. May cause skin and eye irritation. Exercise appropriate procedures to minimize potential hazards. 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 Excessive temperature and heat.

Incompatibility (Materials to Avoid)
Strong oxidizers (Potassium chlorate, Potassium nitrate, Potassium nitrite).

Hazardous Decomposition Products
Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide, nitrogen oxides, sulfur oxides, ammonia.

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

SECTION VII SPILL OR LEAK PROCEDURES
Steps to be taken in case material is released or spilled
Wear protective equipment and use adequate ventilation. Recover for use if not contaminated. Avoid creating dust. Sweep up spill and place in a 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. For small spills, dissolve in water and flush to sewer with copious amounts of water. For large spills, dispose of in accordance with federal, state and local regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION
Respiration Protection None should be needed in normal laboratory handling. If dusty conditions exist work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.
Ventilation Local Exhaust Recommended. Special No.
Mechanical (General) Recommended. Other No.

Protective Gloves Eye Protection
Other Protective Equipment Goggles, lab coat, proper gloves, eye wash station, ventilation hood.

SECTION IX SPECIAL PRECAUTIONS
Precautions to be Taken in Handling & Storing
Store in a cool, dry place. Keep container tightly closed when not in use. Wash thoroughly after handling.

Other Precautions
Avoid breathing dust. Use with adequate ventilation.
Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing.

Revision No. 8 Date 01/01/07 Approved James A. Bertsch Chemical Safety Coordinator JAB

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