



American International Chemical, Inc.

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MATERIAL SAFETY DATA SHEET

AMMONIUM SULFATE

SECTION I - GENERAL INFORMATION

Revision Date: August 2007

Emergency Number: Chemtrec 800-424-9300 or 703-527-3887

Information Number: 800-238-0001

Synonyms: Ammonium Sulphate, Diammonium Sulfate, Sulfuric Acid Diammonium Salt

CAS #: 7783-20-2

OSHA Hazardous Substance: No

DOT Hazard Class: Not Regulated

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Not Applicable

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: Not Applicable

Vapor Pressure (MM Hg): Not applicable.

Vapor Density (AIR=1): Not Applicable.

Specific Gravity (H₂O=1): 1.77

Percent Volatile by Volume(%): Not Applicable

Melting Point: Not Applicable

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: Complete

Appearance and Odor: White crystalline solid and slight odor of ammonia

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pH: 5.5 in a 0.1 molar aqueous solution

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: non combustible

Flammable Limits: Not Applicable

Extinguishing Media: Media that is appropriate to treat surrounding fire.

Special Fire Fighting Procedures: Fire fighting procedure that is appropriate to treat surrounding fire.

Unusual Fire Explosion Hazard: Melts and Decomposes at 455 Deg F with emission of ammonia & Sulfur trioxide

Auto Ignition Temperature: Not Applicable.

SECTION V - REACTIVITY DATA

Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Ammonium nitrate and potassium or sodium alloy; potassium chlorate; potassium nitrate; strong oxidizers

Hazardous Polymerization: Will not occur under normal conditions

Hazardous Decomposition Products: Melts and Decomposes at 455 Deg F with emission of ammonia & sulfur trioxide.

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry: Inhalation: X Skin: X Ingestion: X Eye: X

Health Hazards: Acute Health effects: Irritating to eyes, upper respiratory tract, & moist areas of the body. No known chronic health effects

Carcinogenicity: Listed by ACGIH - No IARC - No NTP - NO OSHA - No

Signs - Symptoms of Exposure: Skin - Irritation, redness
Eyes - Irritation, redness
Inhalation - dust can cause irritation to upper respiratory tract

Medical Conditions Aggravated by Exposure: None Known

Emergency First Aid Procedures:

Eye contact: Irrigate eyes for a least 15 minutes. Skin contact: wash with soap and large quantities of water. Inhalation: Remove to fresh air. Ingestion: DO NOT induce vomiting, consult a physician immediately.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled:

Collect spilled material and store in a dry area until disposal.
Review control measures first. Contain, sweep, or vacuum up taking care not to spread or raise dust.

Waste Disposal Method:

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

Precautions to be Taken in Handling and Storage:

Avoid contact with skin, eyes and clothing. Avoid breathing dust or mist. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible materials.

SECTION VIII - CONTROL MEASURES

Respiratory Protection Type:

Use NIOSH/MSHA approved respirator if dust exceed nuisance dust limit of 10mg/m³ total dust; 5mg/m³ respirable dust.

Ventilation Requirements:

Use adequate ventilation to assure dust levels below nuisance dust limit

Protective Gloves, Clothing or Equipment Requirements:

Safety glasses or safety chemical goggles, wear gloves and further skin protection if employee has sensitive skin, or if skin reaction occurs.

Work, Hygienic Practices:

As required to protect skin and eyes from dust. Safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

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