



American International Chemical, Inc.

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MATERIAL SAFETY DATA SHEET

FERRIC AMMONIUM SULFATE DODECAHYDRATE ACS

SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc. 135 Newbury Street Framingham, MA 01701	Emergency Number: Chemtrec Information Number:	800-424-9300 703-527-3887 800-238-0001
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Date: August 2007

Synonyms: Iron ammonium sulfate; sulfuric acid, ammonium iron (3+) salt (2:1:1), dodecahydrate

CAS #: 7783-83-7

DOT Hazard Class: Not Regulated

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Ferric Ammonium Sulfate – 98.5% min.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: A pale violet crystal that presents no unusual hazard if involved in a fire. Material may cause irritation to the skin, eyes, and respiratory tract.

POTENTIAL HEALTH EFFECTS:

Skin: May cause skin irritation, redness or pain.

Eyes: May cause irritation, redness or pain.

Inhalation: May cause irritation to the respiratory tract.

Ingestion: Large oral doses may cause irritation to the gastrointestinal tract. Low toxicity in small quantities but larger dosages may cause nausea, vomiting, diarrhea, and black stool. Pink urine discoloration is a strong indicator of iron poisoning. Liver damage, coma, and death from iron poisoning has been recorded.

CARCINOGENICITY: Not Identifiable.

SECTION 4 - FIRST AID MEASURES

Skin: Immediately wash skin with soap and water for at least 15 minutes.

Eyes: Immediately flush with plenty of water for at least 15 minutes, holding eye lids apart.

Inhalation: Remove to the fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

On All Of The Above: Seek medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Non Combustible

Flammable Limits: Non Combustible

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

Special Fire Fighting Procedures: Use fire-fighting procedure that is appropriate to treat surrounding fire. All firefighters should use self-contained breathing apparatus and full fire-fighting turnout gear.

Unusual Fire Explosion Hazard: During a fire, irritating and highly toxic gasses may be generated by thermal decomposition or combustion.

Auto Ignition Temperature: Not Applicable

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Isolate hazard area and deny entry to unnecessary or unprotected personnel. Contain spill, sweep up, collect and place in a disposal container. Avoid runoff into storm sewers and ditches that lead to waterways.

SECTION 7 - HANDLING AND STORAGE

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

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirators.

VENTILATION REQUIREMENTS: Ventilate as necessary to eliminate dust from the work area and maintain concentrations below the limit.

SKIN AND EYE PROTECTION: Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin and eyes from dust.

WORK, HYGIENIC PRACTICES: As required to protect skin and eyes from dust, safety showers and/or eyewash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE LIMITS:

ACGIH Threshold Limit Value (TLV): 1 mg/m³ (TWA) soluble iron salt as Fe

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 230 °C

Vapor Pressure (MM Hg): Not Available

Vapor Density (AIR=1): Not Available

Specific Gravity (H₂O=1): 1.71

Percent Volatile by Volume (%): 0%

Melting Point: 39-41 °C

Evaporation Rate (Butyl Acetate=1): Not Available

Solubility in Water: Yes

pH: (5% solution @ 25 °C): 1.5-2.5

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: May emit toxic fumes of ammonia and sulfur oxide when heated to decomposition.

KEEP AWAY FROM: Heat, moisture, incompatibles, and light.

SECTION 11 - TOXICOLOGICAL INFORMATION

No LD50/LC50 information found relating to normal routes of occupational exposure. Investigated as a mutagen.

SECTION 12 - ECOLOGICAL INFORMATION

Not Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in accordance with all federal, state and local regulations.
RCRA WASTE #: Not Listed

SECTION 14 - TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: Ferric Ammonium Sulfate Dodecahydrate ACS

SECTION 15 - REGULATORY INFORMATION

OSHA STATUS: Not listed

TSCA STATUS: Listed

CERCLA REPORTABLE REQUIREMENTS: (RQ) None

SARA TITLE III INFORMATION:

Section 302 Extremely Hazardous Substance: Not listed

Section 313 Toxic Chemicals: Not listed

Section 311/312 Hazard Category: Acute Health Hazard: Immediate

SECTION 16 - OTHER INFORMATION

NFPA Ratings: Health: 1
Flammability: 0
Reactivity: 0

Reason for Issue: Changed Date

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