



American International Chemical, Inc.

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MATERIAL SAFETY DATA SHEET

CERIC AMMONIUM NITRATE

SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

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Date: August 2007

Synonyms: Ammonium Hexanitratocerate, Ammonium Ceric Nitrate

CAS #: 16774-21-3

DOT Hazard Class: Nitrates, Inorganic, N.O.S.
(Ceric Ammonium Nitrate)
UN 1477, Class 5.1, PG II, Oxidizer

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Ceric Ammonium Nitrate - 98.5% min.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This material is orange-red crystals with a slight characteristic odor. Strong oxidizer. Contact with other materials may cause fire. Avoid excessive heat, shock or moisture. Avoid reducing agents and easily oxidized material.

POTENTIAL HEALTH EFFECTS:

Skin: May cause skin irritation. Prolonged exposure may result in skin burns.

Eyes: May cause irritation, burning or permanent damage.

Inhalation: May cause irritation to the respiratory tract.

Ingestion: May cause irritation and burns of the mouth, throat and digestive tract. Nitrates may cause dizziness, abdominal cramps, vomiting, bloody diarrhea, weakness, convulsions and collapse.

CARCINOGENICITY: Not Identifiable

SECTION 4 - FIRST AID MEASURES

Skin: Immediately wash skin with soap and water for at least 15 minutes. Remove contaminated clothing and wash before reuse.

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

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

Ingestion: Do not induce vomiting. Give several glasses of water to dilute. Get medical attention.

On All Of The Above: Consult a physician if symptoms persist.

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 turn-out gear. Not combustible, but material is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Ceric Ammonium Nitrate can increase the flammability of adjacent combustibles.

Unusual Fire Explosion Hazard: During a fire, irritating and highly toxic gasses may be generated by thermal decomposition or combustion. Contact with oxidizable materials may cause violent combustion. Sensitive to mechanical impact.

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 which lead to waterways. Avoid contact with combustible material (i.e.; wood, paper, oil, etc...).

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. Product is slightly hygroscopic and should be stored in a dry area to prevent moisture pick up and caking. Isolate from incompatible substances.

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 eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE LIMITS: None Established

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not Applicable

Vapor Pressure (MM Hg): Not Applicable

Vapor Density (AIR=1): Not Available

Specific Gravity (H₂O=1): Not Available

Percent Volatile by Volume (%): Not Applicable

Melting Point: 107 °C

Evaporation Rate (Butyl Acetate=1): Not Available

Solubility in Water: 141 g / 100 ml water @ 25 °C

pH: Not Available

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Nitrogen.

KEEP AWAY FROM: Flammable and organic materials, reducing agents, easily oxidized materials and combustible materials. Avoid excessive heat, shock or moisture.

SECTION 11 - TOXICOLOGICAL INFORMATION

Not Available

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: Nitrates Inorganic N.O.S
TECHNICAL SHIPPING NAME: (Ceric Ammonium Nitrate)
UN 1477, Class 5.1, PG II, Oxidizer

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: Fire Hazard: No
Reactive Hazard: Yes
Release of Pressure: No
Acute Health Hazard: Yes
Chronic Health Hazard: Delayed

SECTION 16 - OTHER INFORMATION

NFPA: Health = 1
Flammability = 0
Reactivity = 1
Other = Oxidizer

Reason for Issue: Changed Date

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