

MSDS



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Ammonium Nitrate

Section I. Chemical Product and Company Identification

Supplier:

Hummel Croton Inc. 10 Harmich Road South Plainfield, NJ 07080 (908)-754-1800

Chemical Name: Ammonium Nitrate Synonym:Ammonium Saltpeter, Ammonium Salt of Nitric Acid

CAS Number: 6484-52-2 Chemical Formula: NH₄NO₃

HMIS Rating

Health	1
Flammability	0
Reactivity	3

Personal Protection

Section II. Composition and Information on Ingredients

Material	CAS#	%	OSHA	ACGIH
Ammonium Nitrate	6484-52-2	99+%	Not Established	Not Established

Since no Exposure limits have been established for Ammonium Nitrate by OSHA & ACGIH, we recommend that our product should be treated as a nuisance dust 15 mg/m³.

Section III Hazards Identification:

Accute Health Effects: Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness. Reddening, scaling, and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

Chronic Health Effects: This product has no known chronic effects. Repeated or prolong exposure to this compound is not known to aggravate medical conditions.

Accute Health Effects: This product is not listed by NTP, IARC or regulated as a Carcinogen by OSHA.

Section IV. First Aid Measures

First Aid For Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

First Aid For Skin: In case of contact, flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.

First Aid For Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

First Aid For Ingestion: If swallowed, call a physician immediately.

Section V. Fire and Explosion Data

Flammability: Non-Flamable
Flash Points: Not Applicable
Auto-Ignition: Not Applicable
Flammable Limits: Not Applicable
Extinguishing Media: Water Spray

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

OXIDIZER. May explode when heated.

Fire/Explosion Hazards: Contact with other material may cause fire. Emits toxic fumes under fire conditions. Container explosion may

occur under fire conditions.

Section VI. Accidental Release Measures

Spill Or Leak Procedures: Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water. Collect wash water for approved disposal. Keep from entering water or ground water

Section VII. Handling and Storage

Storage Temperatures: Store at ambient temperature Shelf Life: Unlimited in tightly closed container.

Special Sensitivity: Ammonium nitrate decomposes at about 210°C. The presence of impurities markedly lowers the decomposition temperature, e.g. chloride salts, metal oxides. The following powdered metals react violently or explosively with fused ammonium nitrate below 200°C: aluminum, antimony, bismuth, cadmium, chromium, cobalt, copper, iron, lead, magnesium, manganese, potassium, sodium, nickel, tin, zinc, titanium, as well as brass and stainless steel. Ignites or reacts on contact with: phosphorus, urea, sulfur, potassium nitrite, sawdust, sugar, trinitroanisole, charcoal, cyanoguanidine, potassium permanganate, acetic acid, acetic anhydride. Hot aqueous solutions of ammonium nitrate of above 50% concentration may decompose explosively under adiabatic conditions and confinement.

Handling/Storage Precautions: Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat and incompatible materials (see Section X). Reseal containers immediately after use. Store away from food and beverages.

Section VIII. Exposure Controls/Personal Protection

Eye Protection: Safety glasses or goggles.

Skin Protection: PVC gloves with impervious boots, apron or coveralls. Employees should wash their hands and face before eating, drinking or using tobacco products.

Respirator: Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator must be worn.

Ventilation: Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.

Additional Protective Measures: Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of hazardous chemicals.

Section IX. Physical and Chemical Properties

Physical Form: Solid crystals or prills

Color: White
Odor: Odorless
Molecular Weight: 80.05

Boiling Point: Decomposes at 210°C **Melting/Freezing Point:** Decomposes at 210°C **Solubility In Water:** 1g in 0.5 ml water

Specific Gravity: 1.72

Section X. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will Not occur

Incompatibilities: Strong reducing agents, strong acids, finely powdered metals

Instable Conditions: Excessive temperatures (see Incompatibilities).

Decomposition Temperature: Decomposes at 210°C

Decomposition products: Oxides of Nitrogen and Ammonia

Section XI. Toxicological Infomation

RTECS Number: BR9050000

Routes of Exposure: Eye contact. Ingestion. Inhalation. Skin contact.

Toxicity Data: Orl-Rat LD50: 2217 mg/kg Unr-Mus LD50: 2085 mg/kg

Chronic Toxic Effects: This product has no known chronic effects. Repeated or prolong exposure to this compound is not known to

aggravate medical conditions.

Acute Toxic Effects: Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness. Reddening, scaling, and itching are characteristics of skin inflammation.

Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

Section XII. Ecological Information

Ecotoxicity: Not available at this time.

Section XIII. Disposal Considerations

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental regulations.

Section XIV. Transportation Information

Proper Shipping Name: Ammonium Nitrate

UN Number: 1942 Class: 5.1 P.G.: ||| Label Code: 5.1

Section XV. Regulatory Information

OSHA Status: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR

TSCA Chemical Inventory: This compound is on the EPA Toxic Substance Control Act (TSCA) inventory List

California Proposition 65: To the best of our knowledge, this product contains no levels of listed substances, which the state of California has found to cause cancer, birth defects or other reproductive effects.

SARA 313 Title III:

Section 302 ExtremelyHazardous Substances: None Section 311/312 Hazardous Categories: None

Section 313 Toxic Chemicals: None

Section XVI. Other Information

Prepared By: Mark Dugan Date: January 05, 2009

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