

# MATERIAL SAFETY DATA SHEET



Martin Resources  
1920 State Highway 194 West  
Plainview, TX 79072

DATE PREPARED: 08/25/04  
PRODUCT: 21-0-0 Granular Ammonium Sulfate  
CHEM TREC: 1-800-424-9300  
NFPA: HEALTH 1, FLAMMABILITY 0, REACTIVITY 0.

## SECTION I -- PRODUCT INFORMATION

COMMON CHEMICAL NAME: Ammonium Sulfate , 21-0-0 / 24 S

Ammonium Sulfate CAS # 7783-20-2

## SECTION II -- INGREDIENTS

PEL/TLV NOT ESTABLISHED

## SECTION III -- PHYSICAL PROPERTIES

COLOR: White  
FORM/APPEARANCE: Crystalline Solid  
ODOR: N/A  
SPECIFIC GRAVITY: Bulk Density= approx. 65 lbs./Cft.  
SOLUBILITY IN WATER: Ammonium Sulfate, soluble  
DECOMPOSITION TEMP.: 235<sup>0</sup>C

## SECTION IV -- FIRE AND EXPLOSION DATA

FLASHPOINT: N/A  
FIRE FIGHTING PROCEDURE: Water, Foam or CO<sub>2</sub> Extinguishing Media  
UNUSUAL HAZARDS: Ammonia fumes may be emitted; Oxides of Nitrogen may form  
in the presence of a catalyst (Platinum).

## SECTION V -- HEALTH EFFECTS

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.  
Routes of entry for gases include inhalation and eye contact.  
Skin may be a route of entry for liquified gases.

### ACUTE OVEREXPOSURE EFFECTS:

Ammonium sulfate is moderately irritating to the eyes and mildly irritating to the skin.  
If ingested, ammonium sulfate may cause gastric upset, ulceration or hemorrhage of the  
G.I. tract, and diarrhea. Systemic ammonia poisoning is possible if sufficient absorption  
occurs.

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**CHRONIC OVEREXPOSURE EFFECTS:**

There are no known chronic effects associated with this material.

**FIRST AID PROCEDURES:**

**SKIN:** Wash with water, remove and launder clothing before reuse.

If irritation occurs, seek medical advice.

**EYES:** Rinse with water for 15 minutes. If irritation occurs, seek medical advice.

**INGESTION:** Dilute with water, induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Seek medical attention.

**INHALATION:** Move to fresh air. Aid in breathing, if necessary, and seek medical advice.

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**SECTION VI -- REACTIVITY DATA**

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**STABILITY:** Stable

**INCOMPATIBILITY:** Strong oxidizers, bases, chlorates, nitrates.

**CONDITIONS TO AVOID:** Temp. > 230<sup>0</sup>C will cause decomposition and release ammonia.

**CORROSIVE PROPERTIES:** pH 20% solution = 5.20

**OXIDIZER PROPERTIES:** Not an oxidizer.

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**SECTION VII -- PERSONAL PROTECTION**

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**CLOTHING:** Gloves, coveralls, apron, and boots as necessary to prevent contact.

**EYES:** Safety glasses or goggles.

**RESPIRATION:** NIOSH/MSHA approved dust mask as necessary.

**VENTILATION:** Use local exhaust to control as needed.

**OTHER PERSONAL PROTECTION DATA:** Eyewash fountains and showers accessible.

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**SECTION VIII -- SPILL/LEAK; ENVIRONMENTAL**

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**GENERAL:** Contain and reclaim if possible.

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**SECTION IX -- STORAGE AND HANDLING**

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Keep in a cool, dry place away from any strong bases, chlorates, or nitrates.

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**SECTION X -- REGULATORY INFORMATION**

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**RCRA Haz. Waste #:** N/A

**CERCLA:** NO

**NFPA Rating:** Health 1; Flammability 0; Reactivity 0; Other N/A

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While Martin Resources believes the data set forth herein is accurate as the date hereof, Martin Resources makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon.

Such data is offered solely for consideration, investigation, and verification.

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END OF DATA SHEET