

# AMS PLUS

Coastal AgroBusiness, Inc.

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Emergency Phone Numbers:

Chemtrec(24 hrs): 1-800-424-9300

Coastal(Weekdays): 1-800-758-3456

## IDENTITY

Trade Name: AMS Plus

EPA Reg. No: Not Regulated under FIFRA

Synonyms: Liquid Ammonium

Sulfate/Drift Retardant Solution

Chemical Name:Diammonium Sulfate

Common Name: Ammonium Sulfate

Molecular Formula:  $(\text{NH}_4)_2(\text{NO}_3)_3\text{SO}_4$

Molecular Weight: 372.0

## INGREDIENT

Component	CAS NO.	WT%	PEL/TLV
Ammonium Sulfate	7783-20-2	35.0	NOL/NOL
Proprietary blend of Polyacrylamides and Dimethylpolysiloxanes		0.2	NOL/NOL
Inert Ingredients		64.8	NOL/NOL

## PHYSICAL AND CHEMICAL CHARACTERISTICS

**Appearance and Odor:** Clear, colorless liquid; slight odor.

**Boiling Point:** >200°F

**Melting Point:** Not Applicable

**Vapor Pressure:** ≈Equivalent to water

**Vapor Density (Air=1):** Not Applicable

**% Volatility (V/V):** Not Applicable

**Octanol/H<sub>2</sub>O Partition Coef.:** Not Determined

**pH:** 7.0

**Saturation in air (V/V):** Not Determined

**Specific Gravity (H<sub>2</sub>O=1):** 1.173

**Solubility in Water:** Completely miscible in water

**Viscosity:** ≈Equivalent to water.

## FIRE AND EXPLOSION DATA

**Flash Point:** Not Applicable

**Flammable Limits in Air (V/V):**

LEL: Not Applicable

UEL: Not Applicable

**Auto-Ignition Temperature:**

Not Determined

**Fire Extinguishing Media:** Foam, CO<sub>2</sub>, Dry Chemical, and Water; Class BC, ABC Fire Extinguisher

**Fire Control Tactics:** Self-contained positive pressure breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Clear fire area of unprotected personnel. Cool fire exposed containers with water. Attack from upwind.

**Unusual Fire and Explosion Hazards:**

Decomposes at elevated temperatures upon drying to produce toxic fumes of ammonia and sulfur oxides. If the dry

solid is mixed with strong oxidizers such as ammonium nitrate, potassium salts-nitrite, nitrate or chlorates, a vigorous reaction or explosion may occur.

## NFPA HAZARD RATING

**Health Hazard:** 1-Slightly Hazardous

**Fire Hazard:** 0-Not Combustible

**Reactivity:** 0-Stable

**Specific Hazard:** None

## REACTIVITY DATA

**Stability:** Stable

**Conditions to Avoid:** Extreme Temperatures (above 280°C)

**Incompatibility (Materials to Avoid):**

Strong oxidizing agents; e.g potassium salts-nitrite, nitrate, chlorate; also, chlorine and hypochlorite. Avoid Zinc-clad, copper and copper-bearing materials.

**Hazardous Decomposition Products:** May form ammonia and sulfur oxides.

**Hazardous Polymerization:** Will not occur.

## HEALTH HAZARD INFORMATION

**Threshold Limit Value:** NOL

**Permissible Exposure Limit:** NOL

**Warning Statements:** Avoid contact with eyes, skin, and clothing. May be harmful if swallowed or inhaled. Do not take internally. Keep out of reach of children.

**Signs and Symptoms of Exposure:** Irritation of skin and eyes. Contact with eyes is painful and irritating. Overexposure: Prolonged skin contact may cause moderate irritation. May cause severe eye injury.

**Medical Conditions Generally Aggravated by Exposure:** Preexisting eye and skin disorders may be aggravated by exposure to this product. Unnecessary exposure to this product or any chemical should be avoided.

**Primary Route of Exposure:** Dermal

**Acute Toxicity Data:**

**1. Oral Toxicity:**

LD<sub>50</sub>>2000mg/kg

**2. Dermal Toxicity:**

Slight Irritation

**3. Inhalation Toxicity:**

May irritate nose, throat, and lungs.

**4. Eye Irritation:** Severe

**5. Skin Irritation/Sensitization:**

Moderate (Prolonged Exposure)

**Chronic Toxicity Data:** This product is not carcinogenic teratogenic or mutagenic as determined by OSHA, NTP, or IARC. Danger of methemoglobin formation.

**Emergency and First Aid Procedures:**

**1. If swallowed:** Give large amounts of water and induce vomiting. Get immediate medical attention. Never induce vomiting or give anything by mouth to an unconscious person.

**2. If Inhaled:** Remove person from area of exposure. Give artificial respiration if necessary. If breathing is difficult, give

oxygen if qualified operator is available. Seek immediate medical attention.

**3. If in Eyes:** Immediately flush eyes with plenty of water for at least fifteen minutes, holding eyelids apart to ensure flushing of the entire eye surface. Seek medical attention.

**4. If on Skin:** Remove contaminated clothing and wash with large amounts of soap and water. If irritation develops, contact a physician.

## SPECIAL PROTECTION INFORMATION

**Respiratory Protection:** None required with adequate ventilation. Use NIOSH-approved respiratory protection equipment is misty conditions exist.

**Eye Protection:** Avoid contact with eyes. Wear full face shield or chemical splash goggles when handling. Do not wear contact lenses.

**Skin Protection:** Avoid contact with skin. USDA accepted nitrile or neoprene rubber gloves are recommended. Wear appropriate clothing to prevent repeated or prolonged skin contact.

**Ventilation:** Mechanical (general)

**Other:** It is recommended that a safety shower and eye wash be available. Wear protective clothing to prevent repeated or prolonged contact.

## SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

**Handling and Storage:** Keep container closed when not in use. Use with adequate ventilation. Avoid prolonged or repeated contact with skin. Wash thoroughly with soap and water after handling. Wash hands before breaks and at the end of work. Keep from freezing. Store in cool, dry area. Keep away from strong oxidizers.

**Steps To Be Taken In Case Material Is Released Or Spilled.**

**1. Small Spills:** Soak up with absorbent and sweep or shovel into a suitable container for recovery or disposal.

**2. Large Spills:** Control and contain. Dike the spill to minimize contaminated area and facilitate salvage or disposal. Recover material for use, reprocessing or disposal.

**Waste Disposal Methods:** Do not contaminate water, food or feed by storage or disposal. Waste resulting from spills of this material are not subject to CERCLA/RCRA regulations. Therefore, it may be disposed of as an industrial waste in a manner acceptable to good waste management practice and in compliance with applicable Local, State and Federal regulations.

## SHIPPING DATA (PACKAGE AND BULK)

**D.O.T. Proper Shipping Name:**

Not Regulated

**D.O.T. Hazard Classification:**  
**Primary:** Not Applicable  
**Secondary:** Not Applicable  
**D.O.T. Labels Required:** None  
**D.O.T. Placards Required:** None  
**Poison Constituent:** Not Applicable  
**Hazardous Substance:** None  
**Reportable Quantity (RQ):**  
**Product:** Not Applicable  
**Ingredient:** Not Applicable  
**Bill of Landing Description:** Fertilizer compounds, NOS  
**Transportation Emergency #:**  
 CHEMTREC: (800)424-9300

**ADDITIONAL REGULATORY INFORMATION**

**Sara Title III Data:**  
**Section 311 and 312 Hazard Categories:**  
**Immediate Health Hazard:** Y  
**Delayed Health Hazard:** N  
**Fire Hazard:** N  
**Reactive Hazard:** N  
**Sudden Pressure Release Hazard** N  
**Section 302:**  
 EHS: None  
 TPQ: 10,000 lbs.  
**Section 313:** N/A  
**CERCLA Reportable Quantity:** N/A  
**Other:** Product is exempt from tolerance under FIFRA (40 CFR Part 180.1001(c)).  
**National Response Center:**  
 (800)424-8802  
**CHEMTREC:** (800)424-9300

The information and statements herein are believed to be reliable and are given in good faith but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.

**MSDS NO.:** 10055  
**DATE PREPARED:** 3/21/99  
**DATE REVISED:** 3/7/03  
**APPROVED:** *JM Pearce*