



MATERIAL SAFETY DATA SHEET

Universal Crop Protection Alliance LLC
1300 Corporate Center Curve
Eagan, MN 55121

In Case of Emergency, Call:
24 Hour Emergency Number
CHEMTREC: 800-424-9300

Medical Emergency Contact:
1-800-228-5635 Ext. 138

1. CHEMICAL IDENTIFICATION

Product Name: AMS- Complete Product No.: 0920
EPA Signal Word: Caution
EPA Reg. Number: N/A
Active Ingredient (%): N/A CAS No.: N/A
Chemical Name: Modified Glycerol/Acid complex in nitrogen and ammonium sulfate solution with acrylamide sodium acrylate linear copolymer
Chemical Class: Ammonium Sulfate with Copolymer Solution

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen

This material is not known to contain any chemical listed as carcinogen by OSHA, IARC, or the National Toxicology Program (NTP) at a concentration greater than 0.1%.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Not regulated material. Clear viscous liquid. Mild sweet odor. This product may produce severe eye irritation and skin irritation with prolonged exposure. No fire or health hazard beyond that of ordinary combustible material.

Potential Health Effects: This section includes possible health effects which could occur if this material is not handled in the recommended manner.

Eye: May cause severe eye irritation
Skin: May cause severe skin irritation
Ingestion: May cause irritation
Inhalation: May cause respiratory discomfort

Systemic (other Target Organs) Effects: No data available

Physical Properties

Appearance: Clear viscous liquid
Odor: Mild sweet odor

4. FIRST AID MEASURES

- Ingestion: If swallowed dilute with water and immediately induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.
- Eye Contact: Immediately irrigate with plenty of water for 15 minutes. Seek medical attention if irritation develops.
- Skin Contact: Immediately flush with large quantities of water. Wash affected areas of skin with soap and water. If irritation develops, seek medical attention.
- Inhalation: Remove to fresh air. If breathing is difficult, give oxygen and call a physician.

5. FIRE FIGHTING MEASURES

Fire and Explosion

Flash Point (Test Method): N/D

Flammability Limits(% in air) N/D

Autoignition Temperature: N/D

Flammability: N/D

Hazardous Combustion Products: Thermal decomposition or combustion may produce carbon monoxide, carbon dioxide, ammonia and sulfur trioxide.

Extinguishing Media: Use water, dry chemical, CO2 or alcohol foam

Fire Fighting Instructions: N/D

Protective Equipment for Fire Fighters: Wear positive pressure self contained breathing apparatus and protective fire fighting clothing.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak: Wear protective clothing to prevent contact with the skin and eyes when cleaning up spills. Use non-reactive absorbent to sweep up spills. Flush the area thoroughly with water and scrub to remove residue.

7. HANDLING AND STORAGE

Precautions to be Taken in Handling and Storage: Good housekeeping is necessary for safe handling of product. Wash thoroughly with soap and water after handling. Do not contaminate water, food or feed by storage or disposal. Store at temperatures between 40°F and 120°F.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

These precautions are suggested for conditions with a high potential for exposure. If handling procedures are such that there is only a low potential for exposure, less protection may be needed. Emergency conditions may require additional precautions.

Engineering Controls: Normal room ventilator should be satisfactory. Eyewash fountains and safety showers should be easily accessible

Eye Contact: Wear chemical safety goggles

Skin Contact: Wear rubber or plastic solvent resistant gloves, coveralls, apron, boots as necessary to prevent skin contact.

Inhalation: Wear NIOSH/MSHA-approved respirator as necessary

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear viscous liquid

Odor: Mild sweet odor

Boiling Point: >210F

Specific Gravity/Density: 1.20 @20C

pH: N/D

Solubility in H₂O: Soluble

Vapor Pressure: N/D

Vapor Density: N/D

10. STABILITY AND REACTIVITY

Reactivity

Stability: Product is stable under normal conditions

Hazardous Polymerization: Will not occur

Conditions to Avoid: Keep away from strong oxidizers such as hydrogen peroxide, bromine, chromic acid, chlorates and nitrates.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, ammonia and sulfur trioxide.

11. TOXICOLOGICAL INFORMATION

Toxicological Test Data:

Ammonium Sulfate: Rat, oral LD50 3.0g/kg

Human, lowest reported toxic oral dose 1.5g/kg

12. ECOLOGICAL INFORMATION

There is no information available for this product

13. DISPOSAL CONSIDERATION

Disposal Method: Do not contaminate water, food or feed by storage or disposal. Dispose in accordance with all federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT Classification:

Not regulated

B/L Freight Classification:

Adjuvants, spreader, sticker in nitrogen solution

15. REGULATORY INFORMATION

NOTICE: The information herein is presented in good faith and believed to be accurate as of the issue or revision date shown below. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another, it is users responsibility to ensure that its activities comply with federal, state and local laws and regulations.

SARA Title III Classification

Section 311/312: Not regulated

Section 313 chemical(s):

<u>Chemical Name</u>	<u>CAS Number</u>	<u>RQ</u>	<u>% In Product</u>
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This product does not contain any chemical subject to the reporting requirements of this section

RCRA Classification:

Not regulated

TSCA Status:

Not applicable

OSHA Hazard Communications Standard:

Not Applicable

16. OTHER INFORMATION

NFPA Hazard Ratings

Health:

Flammability:

Reactivity:

0	Least
1	Slight
2	Moderate
3	High
4	Severe

Issued Date: July 29, 1999

Supersedes: January 22, 1999

Reference MSDS: Adjuvants Unlimited, TGS238MC, MSDS dated 11/4/98.
BASF, Ammonium Sulfate, MSDS dated 5/12/87

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