

SAFETY DATA SHEET

Captivate Advanced Adjuvant

1. Identification

Trade Name: Captivate Advanced Adjuvant

Family: Adjuvant/Inorganic Salt Blend

Formula: Proprietary blend of ammonium salts and micro homogenized organo modified elasto polymers

Manufactured for: Frontier Ag Inc., 415 West 2nd Street, Oakley, KS 67748

Phone: 785-672-3300

For Chemical Emergencies call Chemtrec at 800-424-9300

For Other Emergencies call 911 and/or Appropriate Regulatory Agencies

2. Hazard Identification

Classification of the substance or mixture

HCS 2012 (29 CFR 1910.1200)

Causes eye irritation

Label elements

HCS 2012 (29 CFR 1910.1200)

Signal Word : Warning

Hazard Statements:

Causes eye irritation.

Precautionary Statements:

Wash thoroughly after handling.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

3. Composition/Information on Ingredients

Principal Materials	CAS#	Percent	TLV (Units)
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Polymeric viscosity modifier*		Less than 7%	15 mg/m ³
Ammonium Sulfate	7783-20-2	Less than 96%	Not established

Proprietary blend of ammonium salts and micro homogenized organo modified elasto polymers.

*The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. First Aid Measures

IF SWALLOWED:

- Call a doctor or poison control center immediately.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

IF IN EYES:

- Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If irritation persists, call a poison control center or doctor for treatment advice.

IF ON SKIN:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 ó 20 minutes.
- Call a poison control center or doctor for treatment advice if irritation persists.

IF INHALED:

- Move person to fresh air.
- If person is not breathing call 911 or an ambulance, then give artificial resuscitation.
- Call a poison control center or doctor for treatment advice.

5. Fire-Fighting Measures

Flash Point (TCC): Greater than 200 F

Flammability Limits: Not Established

Extinguishing Media: Carbon dioxide or dry chemicals for small fires; alcohol foam, universal foam or water spray for large fires.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and full protective gear when entering confined areas.

Unusual Fire and Explosion Hazards: Avoid dispersion of dust in air.

6. Accidental Release Measures

Spill Response: For wet material, dike spill and absorb with inert material and collect for disposal. Caution: Wet material is slippery. For dry powder, sweep or scoop-up and collect for disposal. Avoid creating dust clouds and breathing dust. Spills or releases to the environment

may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

7. Handling and Storage

Handling & Storage Precautions: Use only with adequate ventilation. Avoid contact with skin or eyes. Avoid prolonged or repeated breathing of vapor, dust, or spray mists. Avoid contact with eyes, skin and clothing. Do not take internally. In case of eye contact, flush with large amounts of water and get medical attention. Always wear protective gear. Keep product cool and dry in sealed original containers.

Other Precautions: Keep container tightly closed and upright when not in use. Follow good industrial practices with regard to housekeeping and personal hygiene. Keep out of reach of children.

8. Exposure Controls / Personal Protection Information

Eye Protection - Tight fitting goggles are recommended to reduce exposure to eyes if high dust concentration exists.

Skin Protection - For operations where contact can occur, wear impervious gloves.

Respiratory Protection - Wear a properly fitted NIOSH/MSHA approved respirator whenever exposure to dust is likely unless levels are below applicable limits.

Ventilation Recommended - Ventilation adequate to keep hazardous ingredients below their TLV.

Other Protection - For operations where contact can occur, wear clothing to limit skin contact. A safety shower and eye wash facility should be available.

9. Physical Chemical Properties

pH (1% Solution): 6.2

Boiling Range: NA

% Volatile by Volume: 4-7

Specific Gravity: N/A

Solubility in Water: Disperses easily

Evaporation Rate (Water = 1): N/A

Appearance & Odor: White crystalline powder, bland odor.

Bulk Density: 56 - 58 lbs./cu.ft.

10. Stability and Reactivity

Stability: Stable

Conditions to Avoid: Fire and excessive heat.

Hazardous Polymerization: Will not occur.

Materials to Avoid: Strong oxidizing agents, acids, bases, chlorates, nitrates

Hazardous Decomposition Products: Thermal decomposition products may include: ammonia, sulfur trioxide and oxides of carbon.

11. Toxicological Information

Not toxic. Causes eye irritation.

12. Ecological Information

N/A

13. Disposal Considerations

Follow federal, state and local regulations regarding health and pollution.

Dispose of at landfill or dissolve in a suitable solvent and incinerate in accordance with federal, state and local regulations.

Material is not a hazardous waste under current RCRA regulations.

14. Transport Information

DOT

Not regulated

TGD

Not Regulated

IMDG

Not Regulated

IATA

Not Regulated

15. Regulatory Information

ACGIH Threshold Limit Value: Not established for mixture

Carcinogen-NTP Program: NO

Carcinogen-IARC Program: NO

16. Other Information

NFPA-Classification

Health: 1 slight

Flammability: 0 minimal

Instability or Reactivity : 0 minimal

HMIS-Classification

Health : 1 slight Flammability: 0 minimal Reactivity : 0 minimal

Created: 11-30-15

The information provided in this Safety Data Sheet has been compiled from our experience and data presented in various technical publications. It is the users responsibility to determine the suitability of this information for the adoption of safety precautions as may be necessary. We reserve the right to revise Safety Data Sheets from time to time as new technical information becomes available. The information contained herein is furnished without warranty of any kind.