



AMS + SURFACTANT

Water Conditioner + Nonionic Surfactant

Features and Benefits

- Pre-dissolved Liquid ammonium sulfate formulation for easily handling
- Protects against hard water antagonism that reduces herbicide activity
- Adds ammonium ions to help increase plant uptake of herbicide
- Includes a high-quality surfactant for enhanced spreading on the leaf surface
- Fits Glyphosate and Glufosinate applications
- Tank mix approved for Enlist One
- 10.03 # per gallon
- Storage and handling – product will freeze recirculate before using

Water Conditioner/NIS	NIS	AMS
<i>per 100 gallons of Water</i>	<i>per 100 gallons of Water</i>	<i>per 100 gallons of Water</i>
1.0 gallons	0.8 pint	3.4 lbs
1.25 gallons	1 pint	4.25 lbs
2.5 gallons	1 quart	8.5 lbs
5 gallons	2 quarts	17 lbs



Central Valley Ag
2803 N Nebraska
York, NE 68467-0429

AMS + SURFACTANT

KEEP OUT OF REACH OF CHILDREN

WARNING

READ ENTIRE LABEL BEFORE USING



PRECAUTIONARY STATEMENTS

Causes eye irritation. May be harmful if swallowed or in contact with skin. Causes mild skin irritation. Wash thoroughly with soap and water after handling. Read and follow all precautionary statements on the accompanying pesticide label(s).

FIRST AID

CALL A POISON CONTROL CENTER OR DOCTOR IF YOU FEEL UNWELL

IF IN EYES: Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes then continue rinsing eyes. Call a poison control center or doctor for treatment advice. If eye irritation persists: Get medical advice/attention.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by the poison control center or doctor. Have a person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Additional Information: Have the product container or label with you when calling a poison control center or doctor or going in for treatment.

In case of medical emergency, call toll free 1-877-424-7452.

Central Valley Ag
2803 N. Nebraska, P.O. Box 429
York, NE 68467-0429
1-888-343-0323

2/0609/2

PRINCIPAL FUNCTIONING AGENTS:

Ammonium sulfate, polyols, proprietary surfactants	48%
Constituents Ineffective as Spray Adjuvants	52%
TOTAL	100%

SURFACTANT CONTENT: 10%

Components exempt from tolerance under 40CFR 180

GENERAL INFORMATION

ELITE AMS + SURFACTANT is a premix of ammonium sulfate, surfactant, and antifoam designed for use with glyphosate systems or other pesticides. **AMS + SURFACTANT** enhances wetting and reduces surface tension for enhanced herbicide uptake. **AMS + SURFACTANT** ties up hard water ions in the tank and on the plant surface that can reduce herbicide efficacy.

DIRECTIONS FOR USE

Prior to use read all directions on this label and on the label of the product used. The product label for specific usages and restrictions have precedence over directions for uses referred to on this label.

MIXING INSTRUCTIONS

SHAKE WELL OR RECIRCULATE BEFORE USE

1. Fill sprayer 1/3 to 1/2 full of water
2. Add dry flowables or dispersible granules
3. Add emulsifiable concentrates
4. Continue to agitate until tank is 3/4 full
5. Add **AMS + SURFACTANT** last to the agitating spray tank

RECOMMENDED RATES

Gal. of AMS + SURFACTANT per 100 gal. (v/v) of water	Quarts/100 gal. Nonionic Surfactant (NIS)	Pounds/100 gal. Ammonium Sulfate (AMS)
1.25 gallons	1 pint	4.25 lbs. (0.5% v/v)
2.50 gallons	1 quart	8.50 lbs. (1% v/v)
5.00 gallons	2 quarts	17.0 lbs. (2% v/v)

STORAGE AND DISPOSAL

STORAGE: Store in a cool, dry place. Keep containers tightly closed. Store in original container. Do not allow water or other chemicals to be introduced into contents of container. Do not contaminate water sources with equipment wash water, spray disposal wastes or by the cleaning of equipment. Do not store near feed or food products. Do not use or store near open flame or with oxidizing agents. **DISPOSAL:** Do not reuse product containers. Triple rinse (or equivalent), then offer for recycling at an ACRC site (go to www.agrecycling.org for locations) or by reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by local, state, and federal regulations.

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300.

NOTICE OF WARRANTY

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, NOR IS ANY REPRESENTATIVE OF SELLER AUTHORIZED TO MAKE ANY SUCH WARRANTY OR MODIFY THESE TERMS. This warranty does not extend to the storage, handling or use of this product contrary to label instructions, or under abnormal

conditions, or under conditions not reasonably foreseeable to Seller, and Buyer assumes the risk of any such storage, handling or use. Seller shall not be responsible for incidental or consequential damages, if any, resulting from a breach of warranty.

All other trademarks are the property of the respective owners.

NET CONTENTS

SAFETY DATA SHEET

ELITE AMS + SURFACTANT

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ELITE AMS + SURFACTANT
CHEMICAL FAMILY: Water Conditioning Agent/Surfactant
GENERIC NAME: Mixture

COMPANY:

Central Valley Ag
2803 N. Nebraska
P.O. Box 429
York, NE 68467-0429

Non-Emergency Business Inquiries: 1-888-343-0323

EMERGENCY CONTACT:

FOR MEDICAL EMERGENCY CALL: 1-877-424-7452 (24-hour number)

FOR CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CONTACT CHEMTREC: 1-800-424-9300 (24-hour number)

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS Health:

Acute Toxicity (Oral), Category 5
Acute Toxicity (Dermal), Category 5
Skin Irritation, Category 3
Eye Irritation, Category 2A

GHS LABEL



Exclamation mark

SIGNAL WORD: WARNING

HAZARD STATEMENTS

H303: May be harmful if swallowed.
H313: May be harmful in contact with skin.
H316: Causes mild skin irritation.
H319: Causes serious eye irritation.

PRECAUTIONARY STATEMENTS

Prevention:

P264: Wash hands, face and other affected areas thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

ELITE AMS + SURFACTANT

Response:

P312: Call a POISON CENTER or doctor/physician if you feel unwell. P332+P313:

If skin irritation occurs: Get medical advice/attention.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

SENSITIZATION: Not a skin sensitizer.

COMMENTS HEALTH: Read all precautions of products being handled and follow the most restrictive language for all products to provide the safest work environment.

COMMENTS: KEEP OUT OF REACH OF CHILDREN.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
Ammonium Sulfate solution, Polyols, alkyl polyoxyethylene sulfate and aryl sulfonate	53.95	Mixture
Constituents Ineffective as Spray Adjuvants	46.05	Mixture

4. FIRST AID MEASURES

EYES: Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

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

INGESTION: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.

INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

NOTES TO PHYSICIAN: All treatments should be based on observed signs and symptoms of distress in the patient.

Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

ADDITIONAL INFORMATION: Have the product container or label with you when calling a poison control center or doctor, or going in for treatment. For emergency medical assistance call **1-877-424-7452**.

5. FIRE FIGHTING MEASURES

GENERAL HAZARD: Toxic fumes may be emitted in a fire situation.

EXTINGUISHING MEDIA: Foam, dry chemical, carbon dioxide, water spray or fog.

HAZARDOUS COMBUSTION PRODUCTS: Normal combustion forms carbon dioxide, water vapor and may produce oxides of carbon, nitrogen and phosphorous.

EXPLOSION HAZARDS: No specific explosion hazards are identified or expected. Always fight fire with the implication that other volatile substances may be present.

FIRE FIGHTING PROCEDURES: Evacuate area and fight fire upwind a safe distance to avoid hazardous vapors and decomposition products. Fire exposed containers can build up pressure and should be kept cool with water spray if possible. Explosive vapor could form from ruptured containers. Dike and collect water used to fight fire to prevent environmental damage due to runoff. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Pick up spilled liquid with absorbent material and sweep up for disposal. Place it and damaged unusable containers in a landfill appropriate for non-hazardous chemical waste. Check local, state, and federal regulations for proper disposal.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Do not contaminate any body of water.

ELITE AMS + SURFACTANT

LAND SPILL: Avoid runoff onto any adjacent land.

SPECIAL PROTECTIVE EQUIPMENT: Always wear proper protective equipment when handling this product.

7. HANDLING AND STORAGE

HANDLING: Wash hands after handling, before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

STORAGE: Store in a cool, dry place. Keep containers tightly closed. Store in original container. Do not allow water or other chemicals to be introduced into contents of container. Do not contaminate water sources with equipment wash water, spray disposal wastes or by the cleaning of equipment. Do not store near feed or food products. Do not use or store near open flame or with oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear chemical goggles or shielded safety glasses (ANSI Z87.1 or approved equivalent) when handling and mixing product. Contact lenses should not be worn when working with chemicals.

SKIN: Wear Chemical-resistant gloves such as Viton or barrier laminate, Coveralls over long-sleeved shirt, long pants and chemical resistant footwear plus socks. Chemical resistant headgear for overhead exposure. When exposed to product concentrate, wear a chemical resistant apron.

RESPIRATORY: Work in a well-ventilated area; exposure to airborne contaminants is not expected to cause concern.

PROTECTIVE CLOTHING: Eye protection, long sleeved shirt and long pants, shoes plus socks and chemical resistant gloves. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

OTHER USE PRECAUTIONS: Avoid contact with skin, eyes, and clothing. Avoid breathing vapors. Wash thoroughly after handling product. Eye wash fountains and drench showers should be located within 100 feet or a 10 second walk from the work area per ANSI Z358.1-1990

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Mild

APPEARANCE: Liquid

COLOR: Clear, viscous brown to light yellow

FLASH POINT AND METHOD: > (200°F) PMCC

SOLUBILITY IN WATER: Miscible **DENSITY:**

9.84-10.17 lbs/gal.

SPECIFIC GRAVITY: 1.18 to 1.22 g/mL

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No **POLYMERIZATION:**

Will not occur.

CONDITIONS TO AVOID: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Incomplete combustion may yield carbon monoxide, carbon dioxide, and/or ammonia which may be harmful.

INCOMPATIBLE MATERIALS: Strong acids and oxidizing agents.

11. TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD₅₀: > 2000 mg/kg

ORAL LD₅₀: > 2000 mg/kg

EYE EFFECTS: Causes eye irritation

SKIN EFFECTS: May cause mild skin irritation.

CARCINOGENICITY

Notes: Not listed in OSHA, NTP, IARC or ACGIH **SENSITIZATION:**

Not a contact sensitizer

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Ecotoxicity information is not available. This product is not for use in aquatic settings.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Do not reuse product containers. Triple rinse (or equivalent), then offer for recycling at an ACRC site (go to <http://www.acrecycle.org/> for locations) or by reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by local, state, and federal regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PRIMARY HAZARD CLASS/DIVISION: Not regulated by DOT

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

FIRE: No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** No **313**

REPORTABLE INGREDIENTS: Not Listed

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT) CERCLA

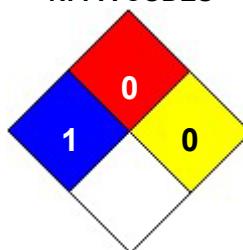
RQ: Not Listed

CALIFORNIA PROPOSITION 65: Not Listed

16. OTHER INFORMATION

REASON FOR ISSUE:

NFPA CODES



GENERAL STATEMENTS: DISCLAIMER OF LIABILITY

Central Valley Ag makes no warranty, representation, or guarantee as to the accuracy, sufficiency, or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity, and suitability of his own use, handling, and disposal of this product. Since actual use by others is beyond our control; no warranty, expressed or implied, is made by

ELITE AMS + SURFACTANT

Central Valley Ag as to the effects of such use, the results to be obtained, or the safety and toxicity of this product, nor does **Central Valley Ag** assume liability arising out of the use by others of this product referred to herein. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other materials or in any process.