



# HSMSO

High Surfactant Methylated Seed Oil

## Features and Benefits

- Added surfactant helps improve wetting and spreading vs. conventional methylated seed oils
- Can be used at half the use rate of conventional methylated seed oils
- 1-2 pints per acre or .25% to 1% per 100 gallon spray solution
- Low phytotoxicity potential when used in-crop
- 7.65# per gallon
- Store between 40 - 120 degrees

Soybean Oil, Methyl Ester 60%  
Fatty Acid, Fatty Acid Ethoxylate, Alkylphenol  
Ethoxylates, and Alcohol Ethoxylates 40%

Engenia	Xtendimax	Enlist One
Approved w/ DRA	Approved w/ DRA	Approved



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

## HSOC-MSO

KEEP OUT OF REACH OF CHILDREN

### WARNING

READ ENTIRE LABEL BEFORE USING



#### WARNING

Causes skin irritation. Causes serious eye irritation.

#### PRECAUTIONARY STATEMENTS

Wash hands, face, and other affected areas thoroughly after handling. Wear protective gloves, protective clothing, eye protection, and face protection. 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 eye 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 the eye. Get medical attention.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

**IF SWALLOWED:** 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.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. 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

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#### PRINCIPAL FUNCTIONING AGENTS

Soybean Oil, Methyl Ester	60%
Fatty Acid, Fatty Acid Ethoxylate, Alkylphenol Ethoxylates, and Alcohol Ethoxylates	40%
<b>TOTAL</b>	<b>100%</b>

SURFACTANT CONTENT: 25%

Components exempt from tolerance under 40CFR 180

#### GENERAL INFORMATION

**ELITE HSOC-MSO** is a high surfactant modified vegetable oil concentrate that improves droplet spreading, and penetration of the plant cuticle, **HSOC-MSO** is designed for use at about half the use rate of traditional methylated seed oils. It can be used with a broad range of pesticides where methylated seed oil-based adjuvants are recommended. **HSOC-MSO** can be applied by ground or air.

#### 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 **HSOC-MSO** last to the agitating spray tank

#### RECOMMENDED RATES

**HSOC-MSO** should be applied at a rate of 1-3 quarts per 100 gallons (0.25 – 0.75% v/v) in ground, aerial, or low volume applications. If conventional methylated seed oil concentrate is recommended at a rate of 1-2 pints per acre replace with **HSOC-MSO** at a rate of 0.5-1 pint per acre.

#### STORAGE AND DISPOSAL

**Storage:** Store in a cool, dry place. Store in original container only. Do not store near feed or food. Storage between 40°F and 120°F is recommended. If stored below 32°F, this product may become cloudy. Above 32°F it returns to its normal clear fluid state.

**Disposal:** Do not reuse product containers. Triple rinse (or equivalent), then offer for recycling at an ACRC site (go to [www.agrecycling.org](http://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 Involving a 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 their respective owners.

#### NET CONTENTS

## ELITE HSOC-MSO

# SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** ELITE HSOC-MSO

**CHEMICAL FAMILY:** 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

**MEDICAL EMERGENCY TELEPHONE NUMBER:** 1-877-424-7452 (24 hrs)  
**FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE EXPOSURE, OR ACCIDENT,  
CALL: CHEMTREC 1-800-424-9300**

### 2. HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

**Health:**

Skin Irritation, Category 2  
Eye Irritation, Category 2A

#### GHS LABEL



Exclamation  
mark

**SIGNAL WORD:** WARNING

#### HAZARD STATEMENTS

H 315: Causes skin irritation.  
H 319: 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.

**Response:**

P312: Call a POISON CENTER or doctor/physician if you feel unwell.  
P332+P313: If skin irritation occurs: Get medical advice/attention.  
P321: Specific treatment see Section 4, First Aid Measures, on this SDS.  
P302+P352: IF ON SKIN: Wash with plenty of soap and water.  
P362: Take off contaminated clothing and wash before reuse.

Revision Date: 09-JUN-2022

## ELITE HSOC-MSO

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.

**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
Soybean oil, Methyl Ester	60	67784-80-9
Fatty Acid, Alkylphenol ethoxylates and Alcohol Ethoxylates	40	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 **CHEMTREC 1-800-424-9300**.

### 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.

## ELITE HSOC-MSO

### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Do not contaminate any body of water.

**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. Store only in the original container. Do not store near feed or food. Storage between 40°F and 120°F is suggested. If stored below 32°F, this product may become cloudy. Above 32°F it returns to its normal clear fluid state.

### 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:** Proper ventilation is required when handling or using this product to keep exposure to airborne contaminants below the exposure limit.

**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:** Bland

**APPEARANCE:** Liquid

**COLOR:** Clear yellow

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

**SOLUBILITY IN WATER:** Dispersible

**DENSITY:** 7.50-7.75 lbs/gal.

**SPECIFIC GRAVITY:** 0.9 to 0.93 g/mL

### 10. STABILITY AND REACTIVITY

**STABLE:** Yes

## ELITE HSOC-MSO

**HAZARDOUS POLYMERIZATION:** No

**POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** None known.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Incomplete combustion may yield carbon monoxide, carbon dioxide and other hazardous gas.

**INCOMPATIBLE MATERIALS:** Strong oxidizing agents. Keep material away from aluminum metal, oleum and nitroform.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE

**DERMAL LD<sub>50</sub>:** > 2000 mg/kg

**ORAL LD<sub>50</sub>:** > 5000 mg/kg

**EYE EFFECTS:** Causes moderate eye irritation.

**SKIN EFFECTS:** Causes moderate 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

##### TSCA (TOXIC SUBSTANCE CONTROL ACT)

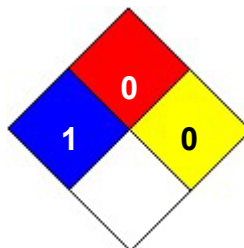
**TSCA REGULATORY:** Not Listed

**CALIFORNIA PROPOSITION 65:** Not Listed

**16. OTHER INFORMATION**

**REASON FOR ISSUE:** Initial Set Up

**NFPA CODES**



**GENERAL STATEMENTS: DISCLAIMER OF LIABILITY**

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**REVISION DATE:** June 9, 2022

**SUPERCEDES SDS DATED:** NA

**SECTIONS REVISED:** NA