



# D.A.M.N DEPOSITION/ACIDIFIER/MSO/NIS

Deposition Aid + Acidifying Water Conditioner + Methylated Seed Oil + Nonionic Surfactant

## Features and Benefits

- Manages hard water antagonism of glyphosate by lowering pH (acidifying), improving glyphosate performance
- Methylated seed oil (MSO) helps reduce evaporation and enhance deposition and leaf penetration, leading to better weed control with oil-loving herbicides
- Surfactant for enhanced spreading, penetration, and uptake to help improve weed control
- Get in the field faster with a low foaming, easy-to-handle liquid formulation
- Buffer system to acidify and maintain pH for pH-sensitive pesticides
- Excellent tank mix compatibility and storage stability
- Convenient low use rate

## Use Rate

- Ground: 2 to 4 quarts/100 gallons water for use as oil + water conditioner

Water Hardness (ppm or mg/L of calcium carbonate equivalent)	per 100 gallons of water
0 – 150 ppm	2 quarts (0.5% v/v)
150+ ppm	4 quarts (1.0% v/v)



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



DEPOSITION + METHYLATED SEED OIL + WATER CONDITIONER + SURFACTANT

# D.A.M.N. DEPOSITION/ACIDIFIER/MSO/NIS

KEEP OUT OF REACH OF CHILDREN

## WARNING

READ ENTIRE LABEL BEFORE USING



Causes skin irritation and serious eye damage. May be harmful if swallowed or inhaled.

### PRECAUTIONARY STATEMENTS

Wear protective clothing, protecting gloves, and eye and/or face protection. Wash hands, face, and other affected areas thoroughly after handling. Do not eat, drink, or smoke while using this product. If eye or skin irritation occurs, seek medical attention.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):** Wear eye protection, face protection, protective gloves and protective clothing.

### FIRST AID

**CALL A POISON CONTROL CENTER OR DOCTOR IF YOU FEEL UNWELL**

**IF SWALLOWED:** Call a POISON CENTER or doctor immediately for treatment advice if you feel unwell. Have the person rinse mouth and sip a glass of water if able to swallow. Do not induce vomiting unless told to do so 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 eye irritation persists: Get medical advice.

**IF ON SKIN:** Call a POISON CENTER or doctor immediately for treatment advice if you feel unwell. Wash with plenty of water. If skin irritation occurs: Get medical advice.

**IF ON CLOTHING:** Take off contaminated clothing and wash it before reuse.

**IF INHALED:** Call a POISON CENTER or doctor immediately for treatment advice if you feel unwell. Remove person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth, if possible.

**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  
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1-888-343-0323

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### PRINCIPAL FUNCTIONING AGENTS:

Methylated seed oil and proprietary blend of water conditioners and nonionic surfactants	100%
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All ingredients are exempt from tolerance under 40CFR 180.

### GENERAL INFORMATION

**ELITE D.A.M.N. DEPOSITION/ACIDIFIER/MSO/NIS** adjuvant is a convenient three-way combination of methylated seed oil (MSO), acidifying water conditioner, and nonionic surfactant. **D.A.M.N. DEPOSITION/ACIDIFIER/MSO/NIS** can enhance weed control by lowering and buffering pH at about 4.5 to manage hard water antagonism. The MSO promotes deposition and leaf penetration, and the nonionic surfactant can improve spreading.

### ENVIRONMENTAL HAZARDS

Not for aquatic use in California or Washington states. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high-water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash waters.

### DIRECTIONS FOR USE

Prior to use, read and follow all directions on this label and on the label of the pesticide being used. The pesticide manufacturer's label for specific usages, rates and restrictions have precedence over DIRECTIONS FOR USE referred to on this label.

### MIXING INSTRUCTIONS

#### SHAKE WELL OR RECIRCULATE BEFORE USE

Fill spray tank half full with water and start agitation. Always add **D.A.M.N. DEPOSITION/ACIDIFIER/MSO/NIS** first with the agitator running. Then add pesticides and continue to fill spray tank.

**NOTE:** **D.A.M.N. DEPOSITION/ACIDIFIER/MSO/NIS** is an acidifier and may be physically or chemically incompatible with alkaline spray materials.

Tank mixes of fertilizers and pesticides may result in reduced effectiveness of the pesticide due to the tendency of the pesticide to hydrolyze in alkaline solutions above pH 7. Acidifying the solution to lower pH will reduce hydrolysis.

The rate needed depends on the alkalinity of the solution, and the specific tank mixture. If you don't know the

starting pH of the solution, use an indicator such as litmus paper or a pH meter to determine the alkalinity of the solution before and after the addition of **D.A.M.N. DEPOSITION/ACIDIFIER/MSO/NIS**.

### RECOMMENDED USE RATES:

**Ground Applications, pH Adjustment, and Buffering:** Use 0.5 - 1.0% v/v.

Water Hardness (ppm or mg/L of calcium carbonate)	D.A.M.N. DEPOSITION ACIDIFIER/MSO/NIS per 100 gallons of water
0 — 150 mg/L	4 pints
150+ mg/L	8 pints

**Aerial Applications:** 6 to 8 fluid ounces per acre at up to 5 GPA. Do not use below 1.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.

**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. Keep away from food, feed, or other products, especially oxidizing agents, to prevent contamination. Storage above freezing is recommended. If product freezes, warm and agitate (recirculate) prior to use.

**DISPOSAL:** Do not reuse empty containers. Triple rinse (or equivalent). Do not reuse container. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit [www.agrecycling.org](http://www.agrecycling.org). Dispose of contents/container in accordance with local/national regulations.

**FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300**

### NOTICE OF WARRANTY:

Seller warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with the directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of the Seller. IN NO CASE SHALL SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER. SELLER MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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## Safety Data Sheet

### ELITE D.A.M.N. DEPOSITION/ACIDIFIER/MSO/NIS

<b>NFPA HAZARD RATING</b>				<b>U.S. TRANSPORT SUMMARY</b>	
0	Least			Not Regulated by DOT	
1	Slight	<b>2</b>	<b>Health</b>		
2	Moderate	<b>1</b>	<b>Flammability</b>		
3	High	<b>1</b>	<b>Reactivity</b>		
4	Severe				

<b>SECTION 1: IDENTIFICATION</b>	
<b>Product Name:</b> Elite D.A.M.N. Deposition/Acidifier/MSO/NIS	
<b>Chemical Description:</b> Deposition, Acidifying Water Conditioner, Surfactant, and MSO	
<b>Recommended Uses:</b> Agricultural Adjuvant	
<b>Restrictions for Use:</b> See product label for use restrictions	
Manufactured For: Central Valley Ag 2803 N. Nebraska, PO Box 429 York, NE 68467-0429	<b>MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs)</b>  <b>Non-Emergency Business Inquiries: 1-855-343-0323</b>
<b>FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours)</b>	

<b>SECTION 2: HAZARDS IDENTIFICATION</b>	
<b>EMERGENCY OVERVIEW:</b> Light yellow to amber liquid with a fatty ester, alcohol odor. Read all precautions of product being handled and follow the most restrictive language for all products to provide the safest work environment.	
<b>POTENTIAL HEALTH EFFECTS:</b>	
<b>Eyes:</b> Serious eye damage/irritation (Cat 2a)	
<b>Skin:</b> Causes skin irritation (Cat 2)	
<b>Inhalation:</b> May be harmful if inhaled (Cat 5)	
<b>Ingestion:</b> May be harmful if swallowed (Cat 5)	
<b>Carcinogenicity</b>	NTP: Not listed                      IARC: Not listed                      OSHA: Not listed
<b>SIGNAL WORD:</b> WARNING	
<b>HAZARD STATEMENTS:</b>	
<b>KEEP OUT OF REACH OF CHILDREN</b>	
<b>READ LABEL BEFORE USE</b>	
Causes serious eye damage.	
Causes skin irritation.	
	
<b>PRECAUTIONARY STATEMENTS:</b>	
<b>Prevention:</b>	Avoid breathing fumes/mist/vapors/spray. Wash hands, face and other affected areas thoroughly after handling Wear protective gloves/eye/face protection. Do not eat, drink, or smoke when using this product. Use only outdoors in a well-ventilated area. Avoid release to the environment.
<b>Response:</b>	<b>IF SWALLOWED:</b> Call and POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. <b>IF ON SKIN:</b> Get medical advice or attention, Call a POISON CENTER or doctor/physician if you feel unwell. Take off contaminated clothing and wash it before reuse. Wash with plenty of soap and water. If skin irritation occurs, get medical advice or attention. <b>IF INHALED:</b> Call a POISON CENTER/doctor/seek medical attention if you feel unwell. Remove person to fresh air and keep comfortable for breathing. <b>IF IN EYES:</b> Get medical advice/attention. Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	% (wt)	CAS Reg. #
Proprietary blend of methyl ester, surfactant(s), and water conditioners	100%	NA
*Ingredients not specifically listed are non-hazardous and are considered to be confidential business information under 29 CFR 1910.1200(i).		
See Section 8 for exposure limits.		

### SECTION 4: FIRST AID MEASURES

<b>Inhalation:</b>	Remove person to fresh air and keep comfortable for breathing. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth to mouth if possible. Call a poison control center or doctor for treatment advice.
<b>Ingestion:</b>	Call a poison control center or doctor immediately for treatment advice. Have the person rinse mouth and sip a glass of water if able to do so. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
<b>Eyes:</b>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lens, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice if symptoms persist.
<b>Skin:</b>	Remove contaminated clothing and wash before reuse. Rinse skin with plenty of water for 15-20 minutes. If skin irritation occurs, seek medical attention. Call a poison control center or doctor for treatment advice.

### SECTION 5: FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b> Use water spray, dry chemical, foam or carbon dioxide (CO <sub>2</sub> ).
<b>Special Fire Fighting Procedures:</b> Wear NIOSH/MSHA approved self-contained breathing apparatus and full bunker gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Avoid breathing vapors; keep upwind. Fight fire from a safe distance and protected location. Fight fire upwind to avoid hazardous vapors and decomposing products. Heat may build pressure and rupture closed containers, spreading fire and increasing the risk of injury. Empty containers may contain residue product and can be dangerous. Use water spray/fog for cooling containers and firefighters. Notify proper authorities if liquid material enters the sewer or public waters.
<b>Hazardous Combustion Products:</b>
<b>Unusual Fire and Explosion Hazards:</b>

### SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b> The proper personal protective equipment for incidental releases (such as 1 liter of product released in a well-ventilated area), use impermeable gloves, goggles, face shield, and appropriate body protection. In the event of a large release, use impermeable gloves, chemically resistant suit and boots, and hard hat. Self-Contained Breathing Apparatus or respirator may be required where engineering controls are not adequate or conditions for potential exposure exist. When respirators are required, select NIOSH/MSHA approved based on actual or potential airborne concentrations in accordance with the latest OSHA and/or ANSI recommendations.
<b>Environmental Precautions:</b> Stop spill at source. Construct temporary dikes of dirt, sand, or appropriate readily available material to prevent spreading of material. Close cap or valves and/or block or plug hole in leaking container and transfer to another container. Keep from entering storm sewers and ditches which lead to waterways, and if necessary, call the local fire or police department for immediate assistance.
<b>Spill and Leak Response:</b> Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with trained personnel.

### SECTION 6: ACCIDENTAL RELEASE MEASURES, *continued*

<b>Methods for Containment:</b> Absorb spilled liquid with polypads or other absorbent materials.
<b>Methods for Clean-up:</b> Clean up with non-combustible absorbent (such as sand, soil, and so on). Shovel up and place all spill residue in suitable containers. Dispose of at an appropriate waste disposal facility according to current applicable laws and regulations and product characteristics at time of disposal.
<b>Other Information:</b>

### SECTION 7: HANDLING AND STORAGE

**Handling:** Follow all SDS / label precautions when using this product. Do not reuse the container.

**Storage:** Store in a cool, dry place. Keep containers tightly closed. Store in original container. Isolate from strong oxidants or strong alkaline materials.

**Minimum Storage Temperature:** N/A

**Other Precautions:** Consult Federal, state and local laws and regulations pertaining to storage.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Respiratory Protection:** For most conditions, no respiratory protection should be needed; however, use NIOSH/MSHA approved organic vapor respirator as necessary.

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash station and safety shower

**Local Exhaust:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

**Protective Gloves:** Use impervious gloves such as neoprene.

**Eye Protection:** Wear OSHA standard chemical splash goggles.

**Other Protective Clothing or Equipment:** For brief contact, no precautions other than clean body-covering clothing should be needed.

**Work/Hygienic Practices:** Never eat, drink, nor use tobacco in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid	<b>Specific Gravity (H<sub>2</sub>O=1):</b>	0.88-0.98
<b>Vapor Pressure (mm Hg):</b>	Not determined	<b>Density (lbs/gallon):</b>	7.8
<b>Vapor Density (Air=1):</b>	Not determined	<b>Melting Point/Freezing Point:</b>	< 32°F
<b>Solubility in Water (wt %):</b>	Emulsifiable	<b>Boiling Point/Range:</b>	Not determined
<b>Viscosity:</b>	Not determined	<b>pH (0.5% v/v in water):</b>	2.9
<b>Appearance and odor:</b>	Clear yellow to amber, Fatty ester/alcohol	<b>Flash Point:</b>	176°F

### SECTION 10: STABILITY AND REACTIVITY

**Chemical Stability:** Stable at ambient temperatures and atmospheric pressure.

**Hazardous Polymerization:** Will not occur

**Conditions to Avoid:** Strong oxidizing agents. Isolate from open flames and heat. Keep material away from aluminum metal, oleum, and nitroform.

**Hazardous Decomposition Products:** Combustion may yield carbon monoxide, carbon dioxide, and other hazardous gases.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### ACUTE TOXICITY

**Eye Effects:** May cause irritation to eyes including redness, rearing, blurred visions and discomfort

**Skin Effects:** Dermal LD<sub>50</sub>, Rabbit, >2,000 mg/kg - 0 May cause irritation to skin. Absorption through skin increases exposure. Prolonged exposure may cause more severe irritation such as local redness and swelling.

**Acute Inhalation Effects:** May irritate respiratory tract and cause discomfort to nose and throat.

**Acute Oral Effects:** Oral LD<sub>50</sub>, Rat, >5,000 mg/kg - Swallowing can cause abdominal irritation, nausea, vomiting and diarrhea. Do not taste or swallow product.

**Specific Target Organ Toxicity:** Not determined

#### CHRONIC TOXICITY

**Chronic Effects:** No available data

**Carcinogenicity:** No available data

**Mutagenicity:** No available data

<b>Teratogenicity:</b>	No available data
<b>Reproductive Toxicity:</b>	No available data
<b>POTENTIAL HEALTH EFFECTS:</b>	
Causes serious eye damage.	
Causes skin irritation.	

<b>SECTION 12: ECOLOGICAL INFORMATION</b>	
<b>ENVIRONMENTAL SUMMARY:</b> No data available	
<b>ECOTOXICITY DATA:</b>	
<b>Fish Acute and Prolonged Toxicity:</b>	No data available
<b>Aquatic Invertebrate Acute Toxicity:</b>	No data available
<b>Aquatic Plant Toxicity:</b>	No data available
<b>Bird Acute and Prolonged Toxicity:</b>	No data available
<b>Honeybee Toxicity:</b>	No data available
<b>ENVIRONMENTAL EFFECTS:</b>	
<b>Soil Absorption/Mobility:</b>	No data available
<b>Persistence and degradability:</b>	No data available
<b>Bioaccumulative Potential:</b>	No data available
<b>Other adverse effects:</b>	No data available

<b>SECTION 13: DISPOSAL CONSIDERATIONS</b>	
<b>Waste:</b> Do not contaminate water, food, or feed by disposal. Dispose of in accordance with applicable Federal, state and local laws and regulations.	
<b>Container:</b> Empty containers must be handled properly due to product residue.	
<b>RCRA Characteristics:</b> It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.	

<b>SECTION 14: TRANSPORT INFORMATION</b>	
<b>DOT: (Ground)</b>	Not regulated for ground transportation by US DOT
<b>IMDG: (Sea)</b>	Not determined
<b>IATA: (Air)</b>	Not determined
<b>TDG: (Canada)</b>	Not determined

<b>SECTION 15—REGULATORY INFORMATION</b>	
<b>TSCA Inventory:</b> Not determined	
<b>SARA Title III Information:</b>	
<b>Section 302 - Extremely hazardous substances:</b> Not listed	
<b>Section 311/312 – Hazard Categories:</b> Acute	
<b>Section 313 –</b> The following chemicals are subject to the reporting requirements of Section 313 of Title III, Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372: None	
<b>CERCLA -</b> This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA): None	
<b>California Proposition 65:</b> This product contains no chemicals known to the state of California to cause cancer or reproductive toxicity.	
<b>U.S. State Worker and Community Right-To-Know (RTK) Information (CT, IL, MA, MN, NH, NJ, PA, RI):</b>	
<b>Chemical Name</b>	<b>CAS # State(s)</b>
Not Determined	
<b>Canadian Domestic Substances List:</b>	
<b>Chemical Name</b>	<b>CAS #</b>

Not Determined

**TRACE ELEMENTS:** Trace ingredients (if any) are present in < 1% concentration (< 0.1% for potential carcinogens, reproductive toxins, respiratory tract mutagens, and sensitizers). None of the trace ingredients contribute a significant additional hazard at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), US State equivalents, and Canadian Hazardous Material Identification System Standard (CPR 4).

**WHMIS Classification:** Not determined

#### **SECTION 16—OTHER**

**Disclaimer:** The information presented herein is based on available data from reliable sources and is correct to the best of **Central Valley Ag** knowledge. **Central Valley Ag** makes no warranty, express nor implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

**Revision Date:** June 9, 2022  
**Sections Revised:** NA

**Supersedes document dated:** NA