U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505P) 1200 Pennsylvania Ave., N.W. Washington, D.C. 20460	EPA Reg. Number: 74530-81	Date of Issuance: 4/2/18
NOTICE OF PESTICIDE: <u>X</u> Registration	Term of Issuance:	
Reregistration (under FIFRA, as amended)	Conditional	
(under Fri KA, as amended)	Name of Pesticide Prod Zone Elite	uct:
Name and Address of Registrant (include ZIP Code): Bert Volger Helm Agro US, Inc. 401 E. Jackson Street, Suite 1400 Tampa, Florida 33602		
Note: Changes in labeling differing in substance from that accepted in connection with this representation Division prior to use of the label in commerce. In any correspondence on this pro-	-	
 On the basis of information furnished by the registrant, the abounder the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or Agency. In order to protect health and the environment, the Adtime suspend or cancel the registration of a pesticide in accordaname in connection with the registration of a product under thir registrant a right to exclusive use of the name or to its use if it if This product is conditionally registered in accordance with FIF with the following conditions: 1. Submit and/or cite all data required for registration/rere product under FIFRA when the Agency requires all registrat. 	recommendation of th dministrator, on his mo ance with the Act. The s Act is not to be const has been covered by of TRA section 3(c)(7)(A)	is product by the otion, may at any e acceptance of any crued as giving the thers. . You must comply review of your
Signature of Approving Official: Sincerely, Grant Rowland, Acting Product Manager 23 Herbicide Branch, Registration Division (7505P)	Date: 4/2/18	

EPA Form 8570-6

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- 2. You are required to comply with the data requirements described in the DCI Order identified below:
 - a. Chemical Name GDCI-108801-1506

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI Order listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division: http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1

- 3. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are not satisfied. A one year study is required to satisfy these data requirements. You have 18 months from the date of registration to provide these data.
- 4. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 74530-81."
- 5. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

• Basic CSF dated 3/27/2018

If you have any questions, please contact Emily Schmid at 703-347-0189 or by email at schmid.emily@epa.gov.

Master label Revised 4-2-2018

04/02/2018 Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 74530-81

ACCEPTED

Sulfentrazone	Group	14	Herbicide
Metolachlor	Group	15	Herbicide

ZONE ELITE

Active Ingredients: Sulfentrazone	% By Wt.
Sulfentrazone	
Metolachlor	
Other Ingredients:	
TOTAL	

*Contains a total of 7.0 lbs. a.i. per gallon consisting of 0.7 lb. a.i. sulfentrazone and 6.3 lbs. a.i. metolachlor per gallon.

EPA Reg. No. 74530-xxx

EPA Est. No._____

Net Content:_____

KEEP OUT OF REACH OF CHILDREN CAUTION

See label booklet for First Aid, Precautionary Statements and Directions for Use including Storage and Disposal

	FIRST AID
If Swallowed	 Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by the poison control center or doctor. DO NOT give anything by mouth to an unconscious person.
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 eye. Call a poison control center or doctor for treatment advice.
	e the product container or label with you when calling a poison control center or doctor, eatment. For Chemical Emergency Assistance (Spill, Leak, Fire or Accident) call 1-800-424-9300.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPEMENT (PPE)

Applicators and Other Handlers Must Wear: Long-sleeved shirt and long pants, socks and shoes.

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Remove and wash contaminated clothing before reuse. If clothing and other absorbent materials have been drenched or heavily contaminated with this product discard and DO NOT reuse them.

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. Mixers and loaders supporting aerial applications are required to use closed systems. The closed system must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)]. When using the closed system, the mixers' and loaders' PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands thoroughly with soap and water after handling and 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.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and marine/estuarine invertebrates. **DO NOT** apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to terrestrial and aquatic plants adjacent to treated areas. **DO NOT** contaminate water when disposing of equipment washwaters or rinsate.

DO NOT use on coarse soils classified as sand containing less than 1% organic matter.

Surface Water Advisory: This pesticide can contaminate surface water through spray drift and under some conditions, may have a high potential for runoff into surface water (primarily via dissolution in runoff water), for several to many months post-application. Areas prone to contamination include:

- · Poorly draining or wet soils with readily visible slopes toward adjacent surface waters
- · Frequently flooded areas
- Areas overlying extremely shallow groundwater
- · Areas with in-field canals or ditches that drain to surface water
- · Areas not separated from adjacent surface waters with vegetated filter strips
- Areas overlying tile drainage systems that drain to surface waters.

Groundwater Advisory: This pesticide is known to leach through soil into groundwater under certain conditions as a result of label use. Groundwater contamination may result if this product is used in areas where the water table is shallow or where soils are permeable.

PHYSICAL/CHEMICAL HAZARDS

DO NOT store or use near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Read all Directions for Use carefully before applying.

DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted- entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours. Exception: if the product is soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- · coveralls over short-sleeved shirt and short pants.
- chemical-resistant gloves made of any waterproof material made of polyethylene or polyvinyl chloride.
- chemical-resistant footwear plus socks.

RESISTANCE MANAGEMENT

Sulfentrazone	Group	14	Herbicide
Metolachlor	Group	15	Herbicide

Sulfentrazone and metolachlor, the active ingredients in this product, are Group 14 and Group 15 herbicides, respectively, based on the mechanism of action classification system of the Weed Science Society of America. Any weed population can contain plants naturally resistant to Group 14 or Group 15 herbicides. Weed species resistant to Group 14 or Group 15 herbicides may be effectively managed utilizing another herbicide from a different Group, (either alone or in a mixture according to label directions), by using other cultural or mechanical methods of weed control, or by a combination of the two. Consult your local company representative, state cooperative extension agent, professional consultant or other qualified authority to determine appropriate actions for controlling specific resistant weeds.

The development of herbicide resistance is well understood, however, it is not easily predicted. When herbicides that affect the same biological site of action are used repeatedly over several years to control the same weed species in the same field, naturally-occurring resistant biotypes may survive a correctly applied herbicide treatment, propagate, and become dominant in that field. Adequate control of these

resistant weed biotypes cannot be expected. If weed control is unsatisfactory, it may be necessary to retreat the problem area using a product affecting a different site of action.

Herbicides should be used in conjunction with the resistance management strategies in the area to better manage herbicide resistance through delaying the proliferation and possible dominance of herbicide resistant weed biotypes. It may be necessary to change cultural practices within and between crop seasons such as using a combination of tillage, retreatment, tank-mix partners and/or sequential herbicide applications that have a different site of action. Weed escapes that are allowed to go to seed will promote the spread of resistant biotypes. It is advisable to keep accurate records of pesticides applied to individual fields to help obtain information on the spread and dispersal of resistant biotypes. Consult your agricultural dealer, consultant, applicator, and/or appropriate state agricultural extension service representative for specific alternative cultural practices or herbicide recommendations available in your area.

Always apply this product at the specified rates and in accordance with the use directions. **DO NOT** use less than specified label rates alone or in tank mixtures. **DO NOT** use reduced rates of the tank mix partner. For optimum performance, scout fields carefully before application for weed identification and growth stage. Begin applications before weeds emerge or when weeds are small.

It is recommended that fields be scouted after application to look for poor performance or possible resistance. Report herbicide failure to local extension specialists, certified crop advisors, and/or registrants. Suspected herbicide-resistant weeds maybe identified by failure to control weed species normally controlled by ZONE ELITE at the dose applied, especially if control is achieved on adjacent weeds. If resistance is suspected, treat weed escapes with an herbicide having a different mechanism of action and/or use non-chemical means to remove escapes, as practical, with the goal of preventing further seed production.

INSTRUCTIONS AND INFORMATION

PRODUCT INFORMATION

ZONE ELITE is a soluble concentrate designed to be mixed with water, liquid fertilizer or mixtures of water and liquid fertilizer. It is to be sprayed preemergence or preplant incorporated in dry shelled peas and soybeans. When applied according to instructions on this label, ZONE ELITE will control broadleaf, grass and sedge weeds on this label.

ZONE ELITE is taken up by weed roots and shoots. Rainfall (or irrigation) is required to activate preemergence and preplant incorporated applications of ZONE ELITE. The amount of rainfall (or irrigation) needed to activate ZONE ELITE following application depends on existing soil moisture, organic matter content and soil texture. Erratic weed control will result unless ZONE ELITE is activated by 0.5 to 1.0 inch of rainfall (or irrigation). If 0.5 to 1.0 inch of rainfall (or irrigation) is not received within 7 to 10 days after ZONE ELITE application, a shallow cultivation may be needed to aid in activation to obtain desired weed control. When sufficient moisture is received after dry conditions, ZONE ELITE herbicide will control susceptible germinating weeds. Under extended periods of dry weather, adequate weed control may not be achieved. Activity on emerged weeds depends on weed species and depth of the root system in the soil. ZONE ELITE applications must be made before crop seed germination to prevent injury to the emerging crop seedlings. If applications are delayed after planting, injury may occur if seeds are germinating, or if they are located near the soil surface.

ZONE ELITE exhibits excellent crop safety. Factors such as poor growing conditions, excessive moisture, cool temperatures, soil compaction or the presence of seedling pathogens may affect seedling vigor. When these conditions are present, the active ingredients in ZONE ELITE, like other soil-applied herbicides, may contribute to crop response. Such early symptoms are short-lived. Observe all label instructions, crop restrictions, mixing directions, application precautions, replanting directions, rotational crop guidelines and other label information of each product when tank mixing with ZONE ELITE

Restrictions: DO NOT apply other products containing sulfentrazone or metolachlor to the crop unless

specified in the individual crop sections. **DO NOT** use in nurseries, turf or landscape plantings.

Mechanism of Action: After application of ZONE ELITE to the soil, seedlings and germinating seeds take up the active ingredients from the soil solution. Soil type, soil organic matter and soil pH influence the amount of the active ingredients in the soil solution available for plant uptake. ZONE ELITE adhers to the clay and organic matter fractions of soil which limits the amount of active ingredients available for weed control.

Influence of Soil Type, Organic Matter and pH on ZONE ELITE Use Rates and Crop Response: Increased weed control and crop response from ZONE ELITE will occur in coarse textured and high pH >7.2 soils. Know the soil type and organic matter content of the field scheduled for treatment in order to determine the correct use rate of ZONE ELITE. Soil organic matter content and soil pH can vary widely and independently of soil type and requires an accurate analysis of representative soil samples or grids of soil samples within a specific field to determine its content.

COARSE	MEDIUM	FINE
Sand	Sandy clay loam	Silty clay loam
Loamy sand	Sandy clay	Silty clay
Sandy Loam	Loam	Clay loam
	Silt Ioam	Clay
	Silt	

SOIL TEXTURE CLASSIFICATION CHART

Also note that highly alkaline irrigation water with a pH greater than 7.2 could result in adverse crop response. Irrigation with highly alkaline water (high pH) following a ZONE ELITE soil application can significantly increase the amount of ZONE ELITE available in the soil solution. This response will ultimately depend on the initial ZONE ELITE application rate, timing, amount and pH of irrigation water and sensitivity of the crop and its growth stage when irrigated.

APPLICATION GUIDELINES

Ground Application

- Apply ZONE ELITE using a conventional low pressure herbicide boom sprayer equipped with suitable nozzles and screens.
- Use properly calibrated nozzles (10 to 40 psi) and screens and strainers no finer than 50 mesh.
- Apply using 10 to 40 gallons of spray solution per acre.
- **DO NOT** exceed 40 psi spray pressure unless required by the spray nozzle manufacturer.
- Water or liquid fertilizer solutions may be used as the carrier when applied alone or in tank mixtures with other registered herbicides.
- A jar test should be used to determine the compatibility of ZONE ELITE and the fertilizer solution.
- Apply ZONE ELITE spray mixture immediately after mixing.
- Agitation should be continuous until all spray mixture has been applied.
- Avoid swath overlaps.
- Always turn off spray booms while turning, slowing or stopping to avoid over application.
- **DO NOT** allow ZONE ELITE spray mixtures to sit overnight to prevent settling of product which may result in difficulty of re-suspension of product.
- To avoid injury to sensitive crops, drain and thoroughly clean spray equipment using instructions below.
- Avoid all direct, and/or indirect spray contact with non-target plants.
- Allow adequate distance between target area and desirable plants to minimize exposure.
- **DO NOT** apply near desirable vegetation.

Aerial Application

- ZONE ELITE may be applied by air using properly calibrated nozzle types and arrangements that will provide optimum coverage while producing minimal amounts of fine droplets.
- Apply in sufficient spray volume to achieve adequate coverage.
- Use a minimum of five (5) gallons of finished spray per acre.
- **DO NOT** apply when wind speed favors drift beyond the targeted treatment area.

Runoff and Wind Erosion Precautions

- **DO NOT** make applications when conditions favor runoff or wind erosion of soil containing ZONE ELITE to non-target areas.
- To prevent off-site movement due to runoff or wind erosion:
 - **DO NOT** treat powdery dry or light sandy soils when conditions favor wind erosion. When these conditions occur, allow the soil surface to be settled by rainfall or irrigation.
 - **DO NOT** apply to impervious substrates such as paved or highly compacted surfaces or frozen or snow covered ground.
 - **DO NOT** apply to soils when saturated with water.
 - **DO NOT** use tail-water from the 1st flood or furrow irrigation of treated field to treat nontarget crops unless at least ½ inch of rainfall (irrigation) has occurred between application and the first irrigation.

Chemigation Application

ZONE ELITE may be applied through sprinkler irrigation systems including center pivot, lateral move, end tow, solid set, or hand move irrigation systems. Apply in ¼ to 1 inch of water. Application of more irrigation water than 1 inch could move the active ingredients below the weed germination zone in the soil and result in reduced weed control. Unless specified in the crop sections below, apply ZONE ELITE immediately after planting. Uniform distribution of water is important to avoid lack of effectiveness, illegal residues or crop injury. Contact State Extension Service specialists, equipment manufacturers or other experts for help with calibration. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must also contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Meter ZONE ELITE into the irrigation system continuously for the duration of the water application. Dilute ZONE ELITE in sufficient volume to insure accurate application over the area to be treated. Use the appropriate amount of water to carry the product to the soil surface. Continuous agitation is required to maintain product suspension in the solution tank. A jar test should be conducted to ensure that phase separation would not occur during dilution and application. Failure to achieve a uniform dilution throughout the time of application may result in undesirable residues or less than desirable weed control. Flush the lines at the completion of the application and then turn the water off promptly.

When using water from public water systems; DO NOT APPLY ZONE ELITE THROUGH ANY IRRIGATION SYSTEM PHYSICALLY CONNECTED TO A PUBLIC WATER SYSTEM. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days of the year. ZONE ELITE may be applied through irrigation systems, which may be supplied by a public water system only if water from the water system is discharged into a

reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and to top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. Before beginning chemigation, always make sure that the air gap exists and that there is no blockage of the overflow of the reservoir tank.

It is important to note that irrigation with highly alkaline water (high pH) following a **ZONE ELITE** soil application may significantly increase the amount of sulfentrazone available in soil solution. **Irrigation** with water having a pH greater than 7.2 could result in adverse crop response.

Restrictions: (1) DO NOT apply this product through any other type of irrigation system and **(2) DO NOT** connect any irrigation system (including greenhouse systems) used for pesticide application to a public water system.

Application with Dry Fertilizers

ZONE ELITE may be impregnated on dry fertilizers and when applied as directed will provide control of listed weeds. All label directions for ZONE ELITE use rates, specific crops, incorporation, special instructions and precautions must be followed. Use ground equipment only to apply ZONE ELITE fertilizer mixtures. All individual state regulations relating to dry bulk fertilizer blending, registration, labeling, and application are the responsibility of the individual and/or company preparing, storing, transporting, selling or applying the ZONE ELITE fertilizer mixture.

Impregnation Directions

To impregnate ZONE ELITE on dry bulk fertilizer, use a closed rotary-drum mixer or other commonly used dry bulk fertilizer blender equipped with suitable spray equipment.

Prepare a slurry of ZONE ELITE in a clean container using clear water. Slowly add the ZONE ELITE /water slurry to the impregnation spray tank and finish filling as needed with clear water. Spray nozzles must be placed to provide uniform coverage of ZONE ELITE onto the fertilizer during mixing.

Refer to the SPRAYER EQUIPMENT CLEAN-OUT section for directions for cleaning impregnation equipment, transport equipment, loading equipment and application equipment.

Apply the ZONE ELITE dry bulk fertilizer with an accurately calibrated dry fertilizer spreader. The ZONE ELITE dry bulk fertilizer mixture must be spread uniformly on the soil surface. Uneven spreading leaving untreated areas can cause poor weed control or overlapping areas with potential increased ZONE ELITE use rates could result in possible crop response.

A minimum of 200 pounds of dry bulk fertilizer impregnated with the listed amount of ZONE ELITE must be applied per acre to achieve adequate soil coverage for satisfactory weed control.

Refer to the appropriate crop section of the ZONE ELITE label to determine the rate of ZONE ELITE to be applied per acre. Use the following table to determine the amount of ZONE ELITE to be impregnated on a ton (2000 pounds) of dry bulk fertilizer based on the rate of fertilizer that will be applied per acre.

Dry fertilizer rate		es of ZONE ELITE per Ton		
	ZONE ELITE Use Rate Per Acre			
Lb/acre	14 fl oz/acre	26 fl oz/acre	35 fl oz/acre	
200	140	260	350	
250	112	208	280	
300	93	173	233	
350	80	148	200	
400	70	130	175	
450	62	114	154	

ZONE ELITE RATE CHART FOR IMPREGNATION ON DRY FERTILIZERS

Restrictions: (1) **DO NOT** impregnate ZONE ELITE onto coated ammonium nitrate, potassium nitrate, or sodium nitrate either alone or in blends with other fertilizers because these materials will not absorb the herbicide. (2) **DO NOT** use ZONE ELITE alone or in mixtures on straight limestone, since absorption will not be achieved. Fertilizer blends containing limestone can be impregnated. (3) To avoid crop injury, **DO NOT** use the herbicide/fertilizer mixture on crops where bedding occurs.

Fertilizer Sprav Mixtures

Unless use directions specifically prohibit the use of ZONE ELITE with liquid fertilizers, the product can be applied alone or in recommended tank mixtures in combination with fertilizer solutions. Use the following procedure to test the compatibility of small quantities before large volume mixing occurs:

- Add 1 pint of fertilizer solution to a quart jar.
- Add the appropriate amount of herbicide(s) based on the table below.
- When more than one product is being used, add each separately using the following sequence: dry formulations (e.g., WP's, DF's) followed by liquid suspensions (e.g., F's) next and finally liquids (e.g., EC's)

Mixture Compatibility Testing			
Herbicide Formulation	Herbicide Field Use Rate	Amount Herbicide Added Per Pint	
Wettable Powders (WP) or	0.5 pound	0.75 teaspoon	
Dry Flowables (DF)	1.0 pound	1.5 teaspoon	
		•	
	2.0 pound	3.0 teaspoon	
	3.0 pound	4.5 teaspoon	
Emulsified Concentrates (EC)	1.0 pint	0.5 teaspoon	
Liquid Flowables (F)	1.0 quart	1.0 teaspoon	
	2.0 quarts	2.0 teaspoons	
	3.0 quarts	3.0 teaspoons	

Based on 25 gallons per acre spray volume, adjust liquid fertilizer quantity for lower and higher spray volumes.

- Close jar. •
- Shake well.
- Observe mixture immediately after shaking, 5 and 30 minutes after shaking.
- If herbicide/fertilizer mixture remains mixed or can be remixed readily does not permanently separate, foam, gel, become lumpy, etc. - the mixture is compatible and can be mixed in full volumes and sprayed.
- If jar test indicates compatibility, prepare spray by adding fertilizer solution to the tank first, then follow directions below.

ZONE ELITE - Applied Alone with Liquid Fertilizer

- Premix ZONE ELITE in clean water to form slurry.
- Use a minimum of one gallon of water for each container of ZONE ELITE.
- Fill spray tank one-half full with fertilizer solution.
- Add ZONE ELITE slurry to spray tank with agitator system operating by pouring through a 20-35 • mesh screen.
- Agitate until slurry is completely dissolved.
- Rinse container used for slurrying. •
- Add rinsate to the spray tank. •
- Complete filling the sprayer tank with liquid fertilizer.
- Maintain agitation during filling, mixing and application.
- Use ZONE ELITE spray mixture immediately after mixing.

ZONE ELITE - Applied in Tank Mix Combinations with Liquid Fertilizers

Premix ZONE ELITE in clean water to form slurry.

- Use a minimum of one gallon of water for each container of ZONE ELITE.
- Fill spray tank one-half full with fertilizer solution.
- Add ZONE ELITE slurry to spray tank with agitator system operating by pouring through a 20-35 mesh screen.
- Agitate until slurry is completely dissolved.
- Rinse container used for slurrying.
- Add rinsate to the spray tank.
- Dilute the individual tank mix partners with sufficient water to form a free flowing mixture.
- Add to spray tank of fertilizer using the following order slurry of dry formulations (WP's, DF's) followed by dilute liquid formulations (e.g., EC's).
- After each addition, allow time for complete mixing and dispersion adding water as necessary.
- Complete the addition of liquid fertilizer.
- Maintain agitation during filling, mixing and application.
- Apply ZONE ELITE tank mixture immediately after mixing.

Follow all ZONE ELITE label directions regarding product use rates per acre, registered crops, application instructions, incorporation directions, special instructions and all precautions. All individual state regulations relating to liquid fertilizer blending, storage, transportation, registration, labeling, and application are the responsibility of the individual and/or company preparing, selling or applying the ZONE ELITE fertilizer mixture.

MIXING AND LOADING INSTRUCTIONS

ZONE ELITE – Alone

- Determine the ZONE ELITE use rate from the **Use Rate** section of this label.
- Fill the spray tank with approximately one-half of the volume of water needed for the acreage being treated.
- Add required amount of ZONE ELITE for acreage being treated by measuring directly into the spray tank with the agitator system operating.
- Allow the product to fully disperse.
- Complete the addition of required spray water.
- Maintain agitation during filling, mixing and application.
- Apply ZONE ELITE spray mixture immediately after mixing.

ZONE ELITE – Tankmix Combinations

- Determine the ZONE ELITE use rate from the **Use Rate** section of this label.
- Read and follow all use directions, precaution and restrictions on all product labels.
- Determine product compatibility using Mixture Compatibility Testing in jar test, before large volume mixing occurs.
- If the mixture is compatible in the jar test, prepare the tank mixture as follows:
- Fill the spray tank with approximately one-half of the volume of water needed for the acreage being treated.
- Add required amount of ZONE ELITE for acreage being treated by measuring directly into the spray tank with the agitator system operating.
- Allow the product to fully disperse.
- Then add the recommended dry formulations (WP's, DF's) followed by suspensions (e.g., F's, SC's) and finally liquids (e.g., EC's).
- After each addition, allow time for complete mixing and dispersion adding water as necessary.
- Complete the addition of spray water.
- Maintain agitation during filling, mixing and application.
- Apply ZONE ELITE tank mixture immediately after mixing.

BAND TREATMENT APPLICATIONS

For band treatments, apply the broadcast equivalent rate and volume per acre. To determine these:

Band Width in Inches Row Width in Inches	Х	Broadcast Rate Per Acre	=	Band Rate
<u>Band Width in Inches</u> Row Width in Inches	х	Broadcast Volume Per Acre	=	Band Volume

SPRAYER CLEANOUT

Residues left in mixing equipment, spray tanks, hoses, spray booms and nozzles can cause crop effects, if they are not properly cleaned. After applying ZONE ELITE alone and in tank-mixtures and before using sprayer equipment for any other applications, the sprayer must be thoroughly cleaned using the following procedure.

- 1. Drain sprayer tank, hoses, and spray boom and thoroughly rinse the inside of the sprayer tank with clean water to remove sediment and residues.
- 2. Thoroughly flush sprayer hoses, boom and nozzles with clean water.
- 3 Fill the tank 1/2 full with clean water, and add appropriate detergent or ammonia (follow manufacturer's directions for use).
- 4. Fill the tank full and operate the sprayer for 15 minutes to flush hoses, boom, and nozzles.
- 5. Leave the cleaning solution in the spray tank, hoses, spray booms and spray nozzles overnight or during storage for convenient and thorough cleaning of the sprayer.
- 6. Before using the sprayer, drain the spray system.
- 7. Rinse the tank with clean water and flush through the hoses, boom, and nozzles.
- 8. Remove and clean spray tips and screens separately with the tank mix cleaner or ammonia solution.
- 9. Dispose of all cleaning solution and rinsate in accordance with Federal, State and local regulations and guidelines.
- 10. DO NOT drain or flush equipment on or near desirable trees or plants.
- 11. **DO NOT** contaminate any body of water including irrigation water that may be used on other crops.
- 12. If spray system is not cleaned adequately and small quantities of ZONE ELITE remain in the system, they may be released during subsequent applications potentially causing effects to certain crops and other vegetation.
- 13. Helm Agro accepts no liability for any effects due to inadequately cleaned equipment.

HANDLING INSTRUCTIONS AT MIXING SITE

DO NOT mix or load ZONE ELITE within 50 feet of wells - including abandoned wells and drainage wells, perennial or intermittent streams and rivers, natural or impounded lakes and reservoirs, and sinkholes. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pads or properly diked mixing/loading areas.

Procedures that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well are prohibited unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. The impervious pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or washwater, and rainwater that may fall on the pad. The impervious pad must be self-contained and surface water must not be allowed to either flow over or from the pad. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. The pad shall have a minimum containment capacities as described above shall be maintained at all times. The above specific minimum containment capacities **DO NOT** apply to vehicles when delivering pesticide shipments to the mixing/loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment.

Use product in a manner that will prevent back siphoning into wells and prevents spill or improper disposal of excess pesticide, spray mixtures or rinsates.

CROP ROTATIONAL RESTRICTIONS

The minimum interval in months from the time of the last ZONE ELITE application until ZONE ELITE treated soil can be replanted to various crops is listed in the following Table. If ZONE ELITE is tank mixed with another product, refer to the partner label for recropping instructions and follow the directions that are most restrictive.

Rotational intervals for some crops exceed 12 months after a ZONE ELITE application due to potential crop injury. A representative field bioassay should be completed with the rotational crop to accurately determine the crops sensitivity to ZONE ELITE. A field bioassay consists of a test strip of the intended crop planted across the previously treated field and grown to maturity. Test strip should include low spots, knolls, and soil variations such as pH and type. If injury does not occur in the test strip the crop may be planted the following year.

DO NOT rotate to food or feed crops other than those listed on the label.

Crop Rotational Restrictions Table (For all other crops not listed, the rotation interval is a minimum of 12 months with a representative bioassay to determine crop safety before planting).

Crop	Interval in Months
Alfalfa ¹	12
Barley	4.5
Cabbage (transplant only)	2
Cereal Grains (Oats, Pearl Millet, Proso Millet,	12
Teosinte, Wild Rice)	
Buckwheat	12
Corn, Field	10, 4 ²
Corn, Pop	18 ³
Corn, Sweet	10
Cotton	18 or 12 ⁴
Dry Shell Peas	Anytime
Horseradish	Anytime
Lima Beans – Tennessee Only	Anytime
Peanuts	Anytime
Potatoes	Anytime
Rice	10
Rye	4.5
Sorghum	10
Soybeans	Anytime
Succulent peas	8
Sugar Beets	36
Sunflowers	Anytime
Triticale	4.5
Tobacco	10
Tomato	Anytime
Wheat	4.5

1. To avoid injury to rotational alfalfa, (1) **Do not** apply more than 1.9 lb ai s-metolachlor per acre in the previous crop, and (2) **Do not** make lay-by or other postemergent applications of products containing s-metolachlor in the previous crop.

2. Field corn may be planted after 4 months where ZONE ELITE was applied at 28 oz/acre or less.

3. Popcorn and sweet corn may be planted after 10 months where ZONE ELITE was applied at 28 oz/acre or less.

 Cotton may be planted after 12 months where ZONE ELITE was applied at rates 36 oz/acre or less and meets the following conditions: (a) medium and fine soils; (b) Ph <7.2; (C) rainfall or irrigation must exceed 15" after application of ZONE ELITE to rotate to cotton.

For all other crops not listed, the rotation interval is a minimum of 12 months with a representative bioassay to determine crop safety before planting.

REPLANTING INSTRUCTIONS

If initial planting of labeled crop fails to produce a stand, fields treated with ZONE ELITE may be replanted with labeled crop. If ZONE ELITE is being tankmixed with another labeled product, refer to the replant instructions for all products being used.

Restrictions: DO NOT plant treated fields with any crop at intervals that are inconsistent with the Rotational Crop Guidelines on this label. When a tankmix is used, refer to the product's label for any additional replant instructions. **DO NOT** retreat field with ZONE ELITE or other herbicide containing sulfentrazone and s-metolachlor. **DO NOT** plant treated field to any crop at intervals that are inconsistent with the Rotational Crop Guidelines on this label.

ZONE ELITE MAXIMUM ALLOWABLE USE RATES

DO NOT exceed the maximum allowed use rate of sulfentrazone or s-metolachlor on each crop as shown in the table. The total allowed maximum usage includes all applications made to the field per twelve (12) month cropping year. This includes all pre-plant and after plant pre-emerge treatments.

Сгор	ZONE ELITE fl oz/A	Total Lb ai/A	Lb ai/A Sulfentrazone	Lb ai/A s-metolachlor
Dry Shelled Peas	38.7	2.12	0.21	1.90
Soybeans	38.7	2.12	0.21	1.90

MANAGEMENT OF SPRAY DRIFT

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR AND THE GROWER.

Factors relating to the potential for spray drift are many. The most common is the interaction of many equipment and weather-related factors that can determine potential spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. Ultimately it is the applicator that is responsible for taking all these factors into consideration when making decisions on applications.

The following drift management requirements must be followed to avoid off-target movement from aerial applications. These requirements do not apply to forestry applications, public health uses, or to applications using dry formulations: (1) the distance of the outermost nozzles on the boom must not exceed ³/₄ the length of the wingspan or rotor; (2) nozzles must always point backward parallel with the air stream and never be pointed downward more than 45 degrees; and (3) If States and local governments have more stringent regulations, they must be observed.

IMPORTANCE OF DROPLET SIZE

APPLYING LARGER DROPLETS REDUCES SPRAY DRIFT POTENTIAL, BUT IT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR MADE UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS. This is the best strategy to manage the potential for spray drift and is based upon larger droplets to provide better coverage and control. Factors that also can affect an applicator's decision on balancing drift control and coverage are: the presence of non-targeted crops nearby – environmental conditions – and pest pressures.

Controlling Droplet Size-General Techniques

• Select nozzles and application pressure that deliver medium to coarse or larger spray droplets as indicated in the nozzle manufacturer's recommendations and in accordance with ASABE* Standard S-572.

- Select coarse to very coarse droplet size when this product is used as a preemergent/preplant application.
- Applicators may spray only when wind speed is between 3 and 10 mph.
- Do not apply as spray droplets smaller than medium to coarse (defined by the ASABE* standard).

Volume - Nozzles with higher rated flows produce larger droplets. Use high flow rate nozzles to apply the greatest practical spray volume.

Volume Mean Diameter (VMD)

VMD is the expression of droplet size of a spray application cloud. The VMD value means that 50% of the droplets are larger than the expressed value and 50% of the droplets are smaller than the expressed value. Optimum spray clouds should be 450 microns with fewer than 10% of the droplets being 200 microns or smaller.

Pressure - DO NOT exceed nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure. Avoid spray pressures>40 psi unless specified by the manufacturer of drift reducing spray tips and nozzles.

Nozzle Type – Use a nozzle that is designed for the intended application. With many nozzle types narrower spay angles produce larger droplets. Consider using low drift nozzles.

Number of Nozzles – Use the minimum number of nozzles that provide uniform coverage.

Application Height - Set the boom at the lowest labeled height (if specified) to provide uniform coverage thereby reducing exposure of droplets to evaporation and wind. Do not make aerial applications at a height greater than 10 feet above the top of the target plant canopy unless a greater height is required for aircraft safety.

Swath Adjustment – When aerial applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the upwind and downwind edges of the field, the applicator must compensate for this displacement by the path of the aircraft upwind. Swath adjustment or offset distance should increase when conditions favor increased drift potential (higher winds, smaller droplets, etc.).

EFFECTS ON DRIFT POTENTIAL BY WIND, TEMPERATURE AND HUMIDITY AND TEMPERATURE INVERSIONS

Wind

Drift potential increases at wind speeds of more than 10 mph or less than 3 mph (due to inversion potential). However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. AVOID GUSTY OR WINDLESS CONDITIONS. Application should be avoided below 3 mph due to variable wind direction and high inversion potential. Every applicator should be familiar with local wind patterns and how they may potentially affect spray drift.

TEMPERATURE INVERSIONS

Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Drift potential is high during a temperature inversion. Temperature inversions are common on nights with limited cloud cover and light to no wind and are characterized by increasing temperature with altitude. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, set equipment to produce larger droplets to reduce effects of evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

SENSITIVE AREAS

Only apply the pesticide when the wind is blowing away from sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops).

DRY SHELLED BEANS AND PEAS

Dried cultivars of bean (*Lupinus*); bean (*Phaseolus*)(includes field bean, black bean, kidney bean, lima bean (dry), navy bean, pink bean, pinto bean, tepary bean), small red bean, great northern bean; bean (*Vigna*) (includes adzuki bean, blackeyed pea, catjang, cowpea, crowder pea moth bean, lentil, mung bean, rice bean, southern pea, urd bean); broad bean (dry); guar; lab lab bean; pea (*Pisum*) (includes field pea and chickpea) and pigeon pea.

Use Rates

Fall or Spring Early		es for Dry Shelled Peas ce, and Preplant Incorpora	tion Applications
Broadcast rate	Fluid Ounces of ZONE ELITE per Acre		
		Soil Texture	
% Organic Matter	Coarse	Medium	Fine
<1.5	13 - 17	17-26	17-26
1.5 – 3.0	17-26	21-34	26-34
>3.0	21-34	26-38.7	32-38.7

Coarse = Sand, Loamy Sand, Sandy Loam

Medium = Sandy Clay Loam, Sandy Clay, Loam, Silt Loam, Silt

Fine = Silty Clay Loam, Silty Clay, Clay Loam, Clay

Use higher rates for soils with pH less than 7.2 and lower rates for soils with pH greater than 7.2 within the given rate ranges in this table.

ZONE ELITE may be tank mixed with other herbicides registered for use in dry shelled peas. Observe all precautions, instructions and rotational cropping guidelines of each product's label when tank mixing, including all references to potential carryover and crop injury warnings or restrictions. It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Early Preplant and Fall Applications

ZONE ELITE may be applied in the fall as a preplant application to control or suppress weeds prior to planting the following spring. Apply ZONE ELITE to prior crop stubble or soil surface and allow moisture from rainfall or snow to move the product into the soil. **DO NOT** mechanically incorporate in the fall or spring as this will destroy the herbicide barrier and weed escapes are likely. **DO NOT** apply to frozen soils or to existing snow cover to prevent ZONE ELITE runoff from rainfall or snow melt following application.

ZONE ELITE may be tankmixed with other residual soil applied herbicides that are labeled for fall use on dry shelled peas. If weeds are emerged at the time of ZONE ELITE application, include a burndown herbicide such as glyphosate or paraquat at the full-labeled rate as a tank mix partner. Alternatively, apply as a split application as needed.

Select the appropriate ZONE ELITE rate from the table above within the correct soil type and organic matter range. When ZONE ELITE is applied in the fall, use a mid to high rate within the rate range for the appropriate soil type and organic matter. Fall application of ZONE ELITE may require a follow up grass herbicide treatment as grass escapes may occur. Apply ZONE ELITE when the sustained soil temperature

is 55°F and falling at a soil depth of 4 inches. Applications to ridge till production systems must be made after the formation of ridges or bedded.

For fall application: (1) apply after September 30 in ND, SD, MN and WI, and north of Route 30 in IA; (2) apply after October 15 north of Route 91 in NE and south of Route 30 in IA; and (3) apply after October 31 north of Route 136 in IL.

Early Preplant and Preemergence (Spring Applications)

ZONE ELITE may be applied preplant on the soil surface in the spring to control weeds in dry shelled peas. ZONE ELITE may be applied early preplant prior to planting up to 3 days after planting as a preemergence soil application as long as seedlings have not broken the soil surface. Make sure the seed furrow is closed properly. ZONE ELITE may be tankmixed with other preemergence herbicides labeled for use on dry shelled peas.

When dry conditions persist following preemergence applications of ZONE ELITE, make a shallow incorporation to incorporate and activate the herbicide. If weeds are emerged at the time of ZONE ELITE application, use a burndown herbicide at the full-labeled rate in combination with ZONE ELITE Alternatively, apply as a split application as needed.

Preplant Incorporated (PPI)

ZONE ELITE may be applied as a PPI treatment in the spring prior to planting in conventional and reduced tillage dry shelled peas. **DO NOT** incorporate to depths greater than 2 inches to avoid crop injury or inconsistent weed control. ZONE ELITE use rates for PPI applications are similar to those used in preplant and preemergence applications. ZONE ELITE may be tank mixed with other soil applied herbicide labeled for use in dry shelled peas. **DO NOT** tankmix ZONE ELITE with other PPO chemistry herbicides. Observe all precautions, instructions, and rotational cropping guidelines of each product's label when tank mixing, including all references to potential carryover and crop injury warnings or restrictions.

Weeds Controlled

When applied according to directions for use on this label, ZONE ELITE will provide control or suppression of the weeds in the following table. The control level will vary depending on many factors such as use rate, cropping system, weather, soil type and moisture. Partial control will occur under dry conditions, under heavy pest pressure or at low use rates under 26 fl. oz per acre. Under these conditions plan to use a labeled post-emergence herbicide to improve control.

Common Name	Scientific Name			
Broadleaves and Sedges				
Amaranth, Palmer	Amaranthus palmeri			
Kochia (ALS and Triazine Resistant)	Kochia scoparia			
Lambsquarters, common	Chenopodium album			
Morningglory, ivyleaf	Ipomoea hederacea hederacea			
Morningglory, tall	Ipomoea, purpurea			
Nightshade, black	Solanum nigrum			
Nightshade, Eastern black	Solanum ptycanthum			
Pigweed, redroot	Amaranthus retroflexus			
Pigweed, smooth	Amaranthus hybridus			
Thistle, Russian	Salsola tragus			
Waterhemp, common	Amaranthus rudis			
Waterhemp, tall	Amaranthus tuberculatos			
Grasses				
Barnyardgrass	Echinochloa crus-galli			
Foxtail, giant	Setaria faberi			
Foxtail, green	Setaria viridis			
Foxtail, yellow	Setaria glauca			

Panicum, fall	Panicum dichotomiflorum
Witch grass	Panicum capillare

Precautions

ZONE ELITE should not be used on coarse textured soils with low organic matter.

Rainfall (or irrigation) is required to activate preemergence and preplant incorporated applications of ZONE ELITE. The amount of rainfall (or irrigation) needed to activate ZONE ELITE following application depends on existing soil moisture, organic matter content and soil texture. Erratic weed control will result unless ZONE ELITE is activated by 0.5 to 1.0 inch of rainfall (or irrigation). If 0.5 to 1.0 inch of rainfall (or irrigation) is not received within 7 to 10 days after ZONE ELITE application, a shallow cultivation may be needed to aid in activation to obtain desired weed control. When sufficient moisture is received after dry conditions, ZONE ELITE herbicide will control susceptible germinating weeds. Under extended periods of dry weather, adequate weed control may not be achieved.

Some adverse crop response may occur on:

- coarse textured soils with low organic matter (<1.5% and pH of 7.0 or higher)
- on highly eroded soils, hilltops
- or in areas of calcareous outcroppings.

Inadequate seed furrow closure or shallow planting (less than 1.5 inch) may result in undesirable crop response. As expected poor growing conditions such as:

- Excessive moisture
- Low temperatures
- Soil compaction
- Diseases

May also cause undesirable crop response.

The use directions are based on the interactive effects of ZONE ELITE and the primary soil and environmental factors. These factors affect ZONE ELITE activity on various weed species and crop tolerance. The user must observe the instructions and recommendations presented under Application Guidelines and other sections of this label pertinent to the anticipated use.

When applying ZONE ELITE with other registered herbicides, observe all precautions, instructions, limitations, application methods, timings and rotational cropping guidelines of each product's label, including all references to potential carryover and crop injury warnings or restrictions.

NOTE: Not all cultivars have been tested with ZONE ELITE. Consult University or Extension specialists for additional information on specific local varieties and any other pertinent local information.

Restrictions

- **DO NOT** apply more than 38.7 fluid ounces (0.21 lb sulfentrazone/A, 1.90 lbs metolachlor/A) total per twelve (12) month period.
- The twelve month period is considered to begin upon the initial ZONE ELITE application.
- **DO NOT** apply additional sulfentrazone containing products to dry shelled peas if ZONE ELITE has been applied within the twelve month period.
- **DO NOT** apply after crop emerges or if seedling is close to the soil surface.
- DO NOT incorporate to depths greater than 2 inches.
- DO NOT apply to frozen soil or to existing snow cover to prevent ZONE ELITE runoff from rainfall or snow melt following application.
- **DO NOT** use on soils classified as sand having less than 1% organic matter.
- **DO NOT** use for forage within 60 days after an application of ZONE ELITE.
- **DO NOT** cut for hay within 120 days after an application of ZONE ELITE.

SOYBEANS

Application Information

ZONE ELITE may be applied to control listed weeds in conventional soybeans when applied alone or in tankmix combinations.

Timing

ZONE ELITE may be applied before planting up to 3 days after planting. On course soils, apply no more than 2 weeks prior to planting.

- To avoid soybean seedling injury:
 - DO NOT apply ZONE ELITE if soybean seedlings are emerging or cracking the soil.
 - **DO NOT** apply more than 3 days after planting.
 - ZONE ELITE applied near or after crop emergence may cause severe injury to the crop.

If ZONE ELITE is applied 30 days or more pre-plant, use the highest application rate within the rate range for the appropriate soil texture and organic matter. Application may be applied preemergence or preplant incorporated. Follow ZONE ELITE application by labeled postemergence soybean herbicides for increased control of broadleaf and grass weeds. Always follow the most restrictive labeling when tankmixing.

Use Rates

Broadcast rate	Fluid Ounces of ZONE ELITE per Acre		
		Soil Texture	
o Organic Matter	Coarse	Medium	Fine
<1.5	19-25	25-32	25-32
1.5-3.0	25	25-32	25-32
>3.0	25	25-32	32-38.7

Use higher rates for soils with pH less than 7.2 and lower rates for soils with pH greater than 7.2 within the given rate ranges in this table.

ZONE ELITE may be tank mixed with other herbicides registered for use in soybeans. Observe all precautions, instructions and rotational cropping guidelines of each product's label when tank mixing, including all references to potential carryover and crop injury warnings or restrictions. It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Spring Preplant Surface Applications

Use ZONE ELITE on medium to fine soils with minimum tillage or no-tillage systems in CO, CT, DE, IA, IL, IN, KS, KY MA, MD, ME, MI, MN, MO, MT, ND, NE, NH, NY, OH, PA, RI, SD, TN, VA, VT, WI, WV and WY.

Preemergence Applications

ZONE ELITE may be applied at planting time through 3 days after planting, but before seed germination. May be applied alone or in tank mix combinations with other registered soybean herbicides. When applied in tank mix combinations, follow use directions, including application rates, precautions and

restrictions of each product in the mixture. Make sure seed furrows are properly closed before applications.

Preplant Incorporated Applications

ZONE ELITE may be applied alone or in tank mix combinations with other herbicides registered for Preplant Incorporated application on soybeans. For PPI applications, incorporation must be uniform and no deeper than 2 inches. Improper soil incorporation can result in erratic weed control and/or crop injury. When ZONE ELITE is applied in tank mix combination with other soybean herbicides, follow incorporation directions for the tank mix partner(s). Follow use directions, including application rates, precautions and restrictions of each product in the tank mixture.

Fall Applications

ZONE ELITE may be applied as a fall treatment to the stubble of harvested crops for preemergence control of labeled weeds the following spring in no-till and conservation tillage production systems. If emerged weeds are present at time of ZONE ELITE application apply with appropriate burndown herbicide(s) at labeled rate(s) for improved control of existing weeds. Make fall burndown treatments applications in a minimum of 15 gallons per acre to achieve adequate coverage of the weeds being treated. Increase gallonage where weed density is high or heavy crop residue levels are present. When making burndown applications to emerged weeds, include an adjuvant such as COC or MSO to the spray mixture to enhance the burndown activity of the application. Refer to product labels for use rates and instructions.

For ZONE ELITE application rates refer to use rate table above.

Apply ZONE ELITE when the sustained soil temperature is 55°F and falling at a soil depth of 4 inches. Applications to ridge till production systems must be made after the formation of ridges or bedded.

For fall application: (1) apply after September 30 in ND, SD, MN and WI, and north of Route 30 in IA; (2) apply after October 15 north of Route 91 in NE and south of Route 30 in IA; (3) apply after October 31 north of Route 136 in IL; and (4) DO NOT make fall applications south of interstate 70.

When used as directed on soybeans, ZONE ELITE will provide control or suppression of the weeds in the following table. The level of control will vary per use rate, cropping season, environmental conditions, moisture levels and soil type. ZONE ELITE may not control all of the weeds listed under all crop conditions.

Common Name	Scientific Name			
Broadleaves and Sedges				
Amaranth, Palmer	Amaranthus palmeri			
Amaranth, spiny	Amaranthus spinosus			
Amaranth, spleen	Amaranthus dubius			
Copperleaf, hophornbeam	Acalypha ostryifolia			
Florida pusley	Richardia scabra			
Groundcherry, cutleaf	Physalis angulata			
Hairy galinsoga	Galinsoga ciliata			
Kochia (ALS and Triazine Resistant)	Kochia scoparia			
Lambsquarters, common	Chenopodium album			
Morningglory, entireleaf	Ipomoea hederacea integriuscula			
Morningglory, ivyleaf	Ipomoea hederacea hederacea			
Morningglory, palmleaf	Ipomoea wrightii			
Morningglory, pitted	Ipomoea lacunosa			
Morningglory, purple	Ipomoea turbinata			
Morningglory, red	Ipomoea, coccinea L.			
Morningglory, scarlet	Ipomoea hederifolia			
Morningglory, tall	Ipomoea, purpurea			
Nightshade, black	Solanum nigrum			
Nightshade, Eastern black	Solanum americanum			
Nutsedge, purple (Suppression)	Cyperus rotundus			
Nutsedge, yellow (Suppression)	Cyperus esculentus			

Pigweed, redroot	Amaranthus retroflexus			
Pigweed, smooth	Amaranthus hybridus			
Pigweed, spiny	Amaranthus spinosus			
Sedge, annual (Suppression)	Cares, spp.			
Sida, prickly (Teaweed)	Sida spinosa			
Smartweed, Pennsylvania (seedling)	Polygonum pensylvanicum			
Star of Bethlehem	Ornithogalum umbellatum			
Thistle, Russian	Salsola tragus			
Tropical Spiderwort	Commelina benghalensis			
Waterhemp, common	Amaranthus rudis			
Waterhemp, tall	Amaranthus tuberculatos			
Grasses				
Barnyardgrass	Echinochloa crus-galli			
Crabgrass, large	Digitaria sanguinalis			
Crabgrass, small	Digitaria ischaemum			
Crabgrass, southern	Digitaria ciliaris			
Crowfootgrass	Dactyloctenium aegyptium			
Cupgrass, prairie	Eriochloa contracta			
Cupgrass, southwestern	Eriochloa acuminata			
Foxtail, giant	Setaria faberi			
Foxtail, green	Setaria viridis			
Foxtail, robust	Setaria viridis var. robusta			
Foxtail, yellow	Setaria glauca			
Foxtail, bristly	Setaria verticillata			
Goosegrass	Eleusine indica			
Panicum, fall	Panicum dichotomiflorum			
Panicum, Texas	Panicum texanum			
Signalgrass, broadleaf	Brachiaria platyphylla			
Witch grass	Panicum capillare			

Precautions

Make sure seed furrows are closed properly when applying at planting time or before seed germination in order avoid soybean seedling injury.

The use directions are based on the interactive effects of ZONE ELITE and the primary soil and environmental factors. These factors affect ZONE ELITE activity on various weed species and crop tolerance. The user must observe the instructions and recommendations presented under Application Guidelines and other sections of this label pertinent to the anticipated use.

When applying ZONE ELITE with other registered herbicides, observe all precautions, instructions, limitations, application methods, timings and rotational cropping guidelines of each product's label, including all references to potential carryover and crop injury warnings or restrictions.

NOTE: Not all cultivars have been tested with ZONE ELITE. Consult University or Extension specialists for additional information on specific local varieties and any other pertinent local information.

Restrictions

- **DO NOT** incorporate deeper than 2 inches.
- **DO NOT** apply to frozen soils or existing snow cover to prevent ZONE ELITE runoff from rain or snowmelt that may occur following application.
- **DO NOT** graze or feed treated soybean forage, soybean hay or soybean straw to livestock for 30 days after treatment.
- If other soybean herbicides containing sulfentrazone are applied, you must ensure that the sulfentrazone active ingredient rate does not exceed 0.375 lb a.i./A per season.

- **DO NOT** apply more than 2.387 lbs a.i./A S-metolachlor per season.
- **DO NOT** apply ZONE ELITE to soils classified as sand containing less than 1% organic matter.
- **DO NOT** apply more than 38.7 fluid ounces (0.21 lb sulfentrazone/A, 1.90 lbs metolachlor/A) of ZONE ELITE per acre per 12 (twelve) month period. This period is considered to begin with the initial sulfentrazone application.
- **DO NOT** apply after seed germination.

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal or cleaning of equipment.

Pesticide Storage and Disposal

Store product in original container only. Keep container closed when not in use, away from food or feed, fertilizer and other pesticides. Store in a cool dry place and avoid excess heat. **DO NOT** store below 32°F degrees. Wastes resulting from the use of this product that cannot be used must be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, State or local procedures. For more information contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

In Case of Spill

If spill occurs, avoid contact. Isolate area. Keep animals and unprotected persons out of area. Confine spills by:

- Diking surrounding area and sweep up spillage.
- Dispose of in accordance with information given under Pesticide Disposal.
- Wash area with water.
- Absorb liquid with sand, commercial clay or other absorbent.
- Sweep up and dispose of in an approved manner.

Place damaged container in a holding container and label as hazardous waste as per labeling regulations.

Pesticide Disposal

Pesticide waste are toxic. It is a violation of Federal law to improperly dispose of excess pesticide, spray mixture or rinsate. If these wastes cannot be disposed of according to directions on this label, contact your State Pesticide or Environmental Control Agency or Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Handling

Nonrefillable container - DO NOT reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: (For containers greater than 5 gallons) Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Stand the container onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. (For containers 5 gallons or less) Empty the remaining contents into application equipment or a mix tank or store rinsate into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Triple rinse (or equivalent). Then offer for recycling if available, or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Returnable/Refillable Containers - Refill this container with ZONE ELITE only. **DO NOT** reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the

container before final disposal, empty the remaining contents into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

Follow Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, in effectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Helm Agro US, Inc. or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Helm and Seller harmless for any claims relating to such factors.

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