

EDC Ag Products

By Crispin Skinner

- ▶ Labels of Insecticides
- ▶ What to Look For
- ▶ What to Apply
- ▶ Cost \$\$\$\$\$

Labeling

- ▶ FIRST AND FOREMOST, THE LABEL IS THE LAW!!!
- ▶ What's on the label
 - ▶ Chemical name
 - ▶ EPA Registration
 - ▶ Directions for use

B08143P20

Restricted Use Pesticide. Due to toxicity to aquatic invertebrate animals. For retail sale to and use only by Certified Applicators, or persons under their direct supervision, and only for those uses covered by the Certified Applicator's certification.

PEEL HERE TO OPEN

Dimilin 2L

GROUP 15 INSECTICIDE

insecticide
Insect Growth Regulator
Aqueous Flowable

For use on alfalfa; barley; carrot (not grown for seed); oats; triticale; wheat; citrus, crop group 15-16; cutworm, subgroup 20C; grassland; non-crop areas; leafy brassica, subgroup 5B (including lamb greens); livestock/poultry premises; peach, subgroup 12-12B; plum, subgroup 12-12C; peanuts; pears; peppers/eggplant, subgroup 8-10B; rice; soybeans; tree nuts, crop group 14-12; and turfgrass (for use in seed forms only).

INGREDIENTS	% BY WT
ACTIVE INGREDIENT:	
diflubenzuron, N-[2-(4-Chlorophenyl)amino]carbonyl]-2,5-difluorobenzamide*	22%
OTHER INGREDIENTS:	78%
TOTAL:	100%

*Contains 2 lb. diflubenzuron per gallon.

**KEEP OUT OF REACH OF CHILDREN
CAUTION /PRECAUCION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand this label, find someone to explain it to you in detail.)
See Backsheet for Complete Precautionary Statements and Directions for Use

EPA Reg. No. 400-061
EPA Est. No. 037426-GA-002
EPA Est. No. 070815-GA-001
The EPA Establishment Number is identified by the circled letters that match the first two letters in the batch number.
0006179072
004727-6000

Produced for:
McDermid Agricultural Solutions, Inc.
c/o AMSTA (PESCIENCE NORTH AMERICA), LLC
13401 Whitson Parkway, Suite 100
Cary, NC 27513

NET CONTENTS: 1 GALLON





RESTRICTED USE PESTICIDE
DUE TO TOXICITY TO FISH AND AQUATIC ORGANISMS
FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER
SUPERVISION AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S C

SILENCER® VXN

GROUP 3 IN

ACTIVE INGREDIENT: % BY WT.
Lambda-cyhalothrin; [1a(S*),3a(Z)]-(±)-
cyano-(3-phenoxyphenyl)methyl-3- 12.7%
(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-
dimethylcyclopropanecarboxylate
OTHER INGREDIENTS: 87.3%
TOTAL: 100.0%
Contains 1 pound of active ingredient per gallon

EPA Reg. No. 66222-223
EPA Est. No. 37429-GA-001^{SR}; 37429-GA-002^{BO}
Letter(s) in lot number correspond(s) to superscript
in EPA Est. No.

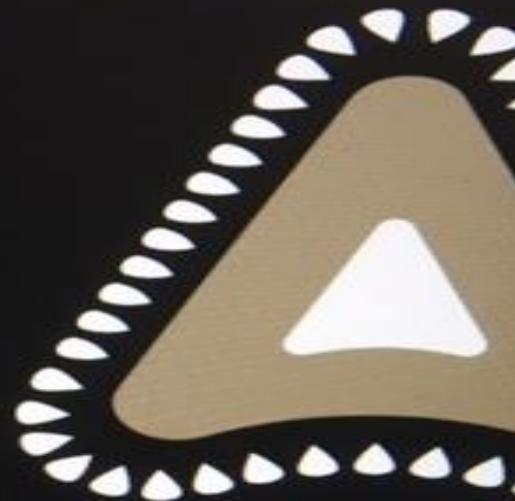
SHAKE WELL BEFORE USING
KEEP OUT OF REACH OF CHILDREN
CAUTION

Si usted no entiende la etiqueta, busque a
alguien para que se la explique a usted en
detalle. (If you do not understand this label, find
someone to explain it to you in detail.)

For First Aid, Precautionary Statements, and
Directions for Use, see inside of this booklet.

How can we help?
1-866-406-6262

Net Contents
1 gallon



INSECTICI

ADAM



PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are listed below. If you want more options, see the instructions for category **A** on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as nitrile rubber or butyl rubber
- Shoes plus socks

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands 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 extremely toxic to fish and aquatic organisms and toxic to wildlife. Do not apply to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or washing clothes. Do not use equipment wash water.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. 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, 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 decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment, restricted-entry interval. The requirements in this box only apply to uses of this product that are prohibited by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI). The PPE required for early entry to treated areas that is permitted under the Worker Protection Standard that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves such as nitrile rubber or butyl rubber
- Shoes plus socks

PRODUCT INFORMATION

Apply in sufficient water for thorough coverage of listed crops unless otherwise specifically noted. Adjust rate of application upon pest pressure, timing of sprays, and field scouting. Use higher rates under high pest pressure and lower rates under low to moderate pest pressure. Base timing and frequency of application upon insect populations reaching locally determined economic thresholds and other local conditions. For ground and air applications, unless otherwise noted, use the following spray volumes:

Row Crops: By ground, apply in a minimum of 10 gallons of finished spray per acre. By air, apply in a minimum of 2 gallons of finished spray per acre.

Orchard and Vine Crops: By ground, apply in a minimum of 50 gallons of finished spray per acre. By air, apply in a minimum of 10 gallons of finished spray per acre.

For cutworm control, SILENCER® VXN may be applied before, during, or after planting. For soil applications, use listed higher rates for improved control.

RESISTANCE

Some insects tend to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product must conform to resistance management strategies established for the use area. Consult your local or state agricultural authorities for current resistance management strategies. If resistance to this product develops in your area, this product or other products with a similar mode of action may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience a lack of control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

Spray must be released at the lowest height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

When applications are made with a crosswind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

TANK MIX APPLICATION

Fill the spray tank at least one-third full of clean water or diluent. With the pump and agitator running continuously, add the specified amount of each product in the tank mix to the spray tank and allow to fully disperse, adding SILENCER VXN last. Add the remainder of water or diluent to the spray tank. Follow the precautions and limitations of the most restricted product in the tank mixture.

Compatibility testing for tank mixing partners: Test compatibility of the intended tank mixture by adding proportionate amounts of each ingredient to a pint or quart jar, cap, shake, and let set 15 minutes. Formation of precipitates that do not readily redisperse indicates an incompatible mixture that must not be used.

Do not use non-emulsifiable oils in combination with SILENCER VXN. If adjuvants are used, use only:

- Nonionic Surfactant (NIS) containing at least 75% surface agent, or
- Non-phytotoxic Crop Oil Concentrate (COC) including once refined Vegetable Oil concentrate (VOC), or
- Methylated Seed Oils (MSO) containing a minimum of 17% emulsifier.

Adjuvants other than NIS or COC may be used providing the product;

1. Contains only EPA exempt ingredients.
2. Is non-phytotoxic to the target crop.
3. Is compatible in mixture (may be established through a jar test).
4. Is supported locally for use with SILENCER VXN on the target crop through proven field trials and through university and extension specifications.

CROP	TARGET PESTS	RATE		REMARKS
		lb a.i./A	fl oz/A	
GRASS FORAGE, FODDER, AND HAY Pasture and Rangeland Grass, Grass Grown for Hay or Silage, Grass Grown for Seed	Army Cutworm Cutworm spp. Essex Skipper Range Caterpillar Striped Grass Looper	0.015-0.025	1.92-3.20	<p>Ground application: Apply in sufficient spray volume to obtain full coverage of the foliage or target area.</p> <p>Air application: Apply in a minimum of 2 gals. per acre or sufficient spray volume to obtain full coverage of the foliage or target area.</p> <p>Monitor insect populations to determine timing and frequency of applications. Scout fields at a minimum of 5 day intervals.</p> <p>Apply in sufficient volume to ensure sufficient coverage of foliage.</p> <p><u>Chinch bugs:</u> SILENCER VXN may only suppress heavy infestations and/or migrations. In this situation, a second application using an alternative chemistry may be needed.</p> <p><u>Greenbug:</u> Greenbug is known to have many biotypes. SILENCER VXN may provide suppression only. In this situation, a second application using an alternative chemistry may be needed.</p> <p><u>Pasture and rangeland grass:</u> May be used for grazing or cut for forage 0 days after application. Do not cut grass to be dried and harvested for hay until 7 days after the last application.</p> <p><u>Grass grown for seed:</u> Straw and mature seed (seed screenings) may be used as feed 7 days after the last application.</p> <p>¹Best control is obtained before insects begin to roll leaves.</p> <p>²See resistance statement under PRODUCT INFORMATION.</p>
	Beet Armyworm Billbug spp. ³ Bird Cherry-Oat Aphid ¹ Black Grass Bug Black Turfgrass Beetle (Adult) Blue Stem Midge Cereal Leaf Beetle Chinch Bug Crane Fly spp. Cricket spp. English Grain Aphid ¹ Fall Armyworm Flea Beetle spp. Grass Mealybug Grass Sawfly (Adult) Grasshopper spp. Green June Beetle (Adult) Greenbug ^{1,2} Japanese Beetle (Adult) Katydid spp. Leafhopper spp. Mite sp. Russian Wheat Aphid ¹ Southern Armyworm Spittlebug spp. Stink Bug spp. Sugarcane Aphid	0.02-0.03	2.56-3.84	

CROP	TARGET PESTS	RATE		REMARKS
		lb a.i./A	fl oz/A	
GRASS FORAGE, FODDER, AND HAY Pasture and Rangeland Grass, Grass Grown for Hay or Silage, Grass Grown for Seed <i>(continued)</i>	True Armyworm Webworm spp. Yellowstriped Armyworm	0.02-0.03	2.56-3.84	<i>(REMARKS - see page 24)</i> <ul style="list-style-type: none"> Do not apply more than 0.03 lb a.i. (0.24 pts of product) per acre per cutting for pastures, rangeland and grasses grown for seed. A minimum re-treatment interval (RTI) of 30 days is required for pastures and rangeland receiving 0.03 lb a.i./A which have not been cut between applications. Do not apply more than 0.09 lb a.i. (0.72 pts of product) per acre per season.

CROP	TARGET PESTS	RATE		REMARKS
		lb a.i./A	fl oz/A	
LEGUME VEGETABLES (SUCCULENT OR DRIED) CROP GROUP Including but limited to: (BEANS AND PEAS) Edible Podded (only) <i>Canavalia gladiata</i> – sword bean <i>Canavalia ensiformis</i> – jackbean <i>Glycine max</i> – Soybean immature seed Edible Podded, Succulent Shelled, or Dried Shelled <i>Phaseolus</i> spp. includes: black, field, kidney, lima, navy, pinto, runner, snap, tepary, and wax beans	Cutworm spp. Green Cloverworm Imported Cabbageworm Mexican Bean Beetle Saltmarsh Caterpillar Velvetleaf Caterpillar	0.015-0.025	1.92-3.20	Ground application: Apply in sufficient spray volume to obtain full coverage of the foliage or target area. Air application: Apply in a minimum of 2 gals. per acre or sufficient spray volume to obtain full coverage of the foliage or target area. Make applications when pests appear. If needed, make repeat applications after at least 5 days. Apply in sufficient volume to ensure sufficient coverage of foliage.
	Alfalfa Caterpillar Aphid spp. ⁴ Armyworm ⁷ Bean Leaf Beetle Bean Leafskeltonizer Blister Beetle spp. Corn Earworm Corn Rootworm Beetle spp. (Adult) Cucumber Beetle spp. (Adult) Curculio and Weevil spp. ¹ (foliage and pod feeding adults and larvae) European Corn Borer Fall Armyworm ⁷ Flea Beetle spp. (Adult) Flea Hopper spp.	0.02-0.03	2.56-3.84	

(continued on next page)



What to Look For

Note V- or Y-shaped marking on head.



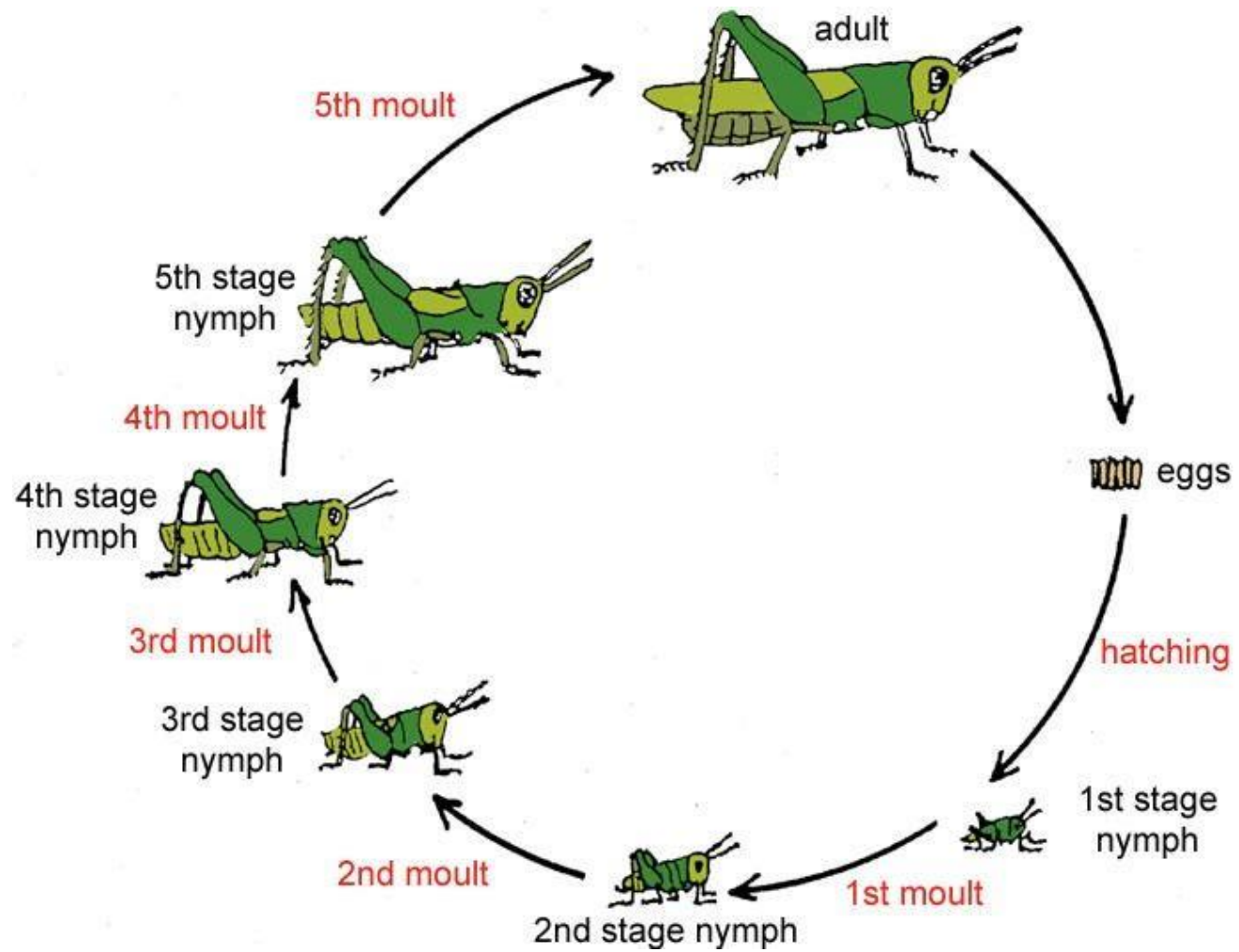




Grasshoppers









Sorghum sudan



corn

Stem Maggots







Bermudagrass stem maggot larva feeding inside a shoot.





What to Apply

The background features abstract, overlapping geometric shapes in various shades of green, ranging from light lime to dark forest green. These shapes are primarily located on the right side of the slide, creating a modern, layered effect. The text 'What to Apply' is positioned on the left side of the slide in a clean, sans-serif font.

Product Name	Insecticide(s), common name	Equivalent(s)	Mode of Action Classification, Group	Chemical Family	Labeled for Grasshoppers	Labeled for Armyworms	Pricing Unit
multiple products (examples include Lambda-Cy™, Grizzly® Z, Kendo®, etc.)	lambda-cyhalothrin: 11.4% or 13.1%	lambda-cyhalothrin: 1.0 lb/gal	3	pyrethroid	yes	yes	gallon
Karate® with Zeon Technology™	lambda-cyhalothrin: 22.8%	lambda-cyhalothrin: 2.08 lb/gal	3	pyrethroid	yes	yes	gallon
Mustang® Maxx	zeta-cypermethrin: 9.15%	zeta-cypermethrin: 0.8 lb/gal	3	pyrethroid	yes	yes	gallon
Blackhawk®	spinosad: 36%	spinosad: 2.91 lb/gal	5	spinosyns	no	yes	gallon
Dimilin® 2L	diflubenzuron: 22%	diflubenzuron: 2.0 lb/gal	15	benzoylureas	yes	yes	gallon
Intrepid® 2F	methoxyfenozide: 22.6%	methoxyfenozide: 2.0 lb/gal	18	diacylhydrazines	no	yes	gallon
Prevathon™	chlorantraniliprole: 5%	chlorantraniliprole: 0.43 lb/gal	28	anthranilic diamide	yes	yes	gallon
Coragen™	chlorantraniliprole: 18.4%	chlorantraniliprole: 1.67 lb/gal	28	anthranilic diamide	yes	yes	gallon

Product Name	Insecticide(s), common name	Equivalent(s)	Mode of Action Classification, Group	Chemical Family	Labeled for Grasshoppers	Labeled for Armyworms	Pricing Unit
multiple products (examples include Lambda-Cy™, Grizzly® Z, Kendo®, etc.)	lambda-cyhalothrin: 11.4% or 13.1%	lambda-cyhalothrin: 1.0 lb/gal	3	pyrethroid	yes	yes	gallon
Karate® with Zeon Technology™	lambda-cyhalothrin: 22.8%	lambda-cyhalothrin: 2.08 lb/gal	3	pyrethroid	yes	yes	gallon
Mustang® Maxx	zeta-cypermethrin: 9.15%	zeta-cypermethrin: 0.8 lb/gal	3	pyrethroid	yes	yes	gallon
Blackhawk®	spinosad: 36%	spinosad: 2.91 lb/gal	5	spinosyns	no	yes	gallon
Dimilin® 2L	diflubenzuron: 22%	diflubenzuron: 2.0 lb/gal	15	benzoylureas	yes	yes	gallon
Intrepid® 2F	methoxyfenozide: 22.6%	methoxyfenozide: 2.0 lb/gal	18	diacylhydrazines	no	yes	gallon
Prevathon™	chlorantraniliprole: 5%	chlorantraniliprole: 0.43 lb/gal	28	anthranilic diamide	yes	yes	gallon
Coragen™	chlorantraniliprole: 18.4%	chlorantraniliprole: 1.67 lb/gal	28	anthranilic diamide	yes	yes	gallon

Table 1. Insecticides labeled for fall armyworm and true armyworm in pasture, grasses, and hay. Follow label directions.

Active ingredient	Insecticide	Pre-grazing interval (days)	Pre-harvest interval for hay (days)	Remarks
beta-cyfluthrin	Baythroid	0	0	Restricted use
carbaryl	Sevin 4F, Carbaryl 4L	14	14	General use
chlorantraniliprole	Prevathon, Coragen	0	0	General use
chlorantraniliprole + lambda-cyhalothrin	Besiege	0	7	Restricted use
cyfluthrin	Tombstone	0	0	Restricted use
diflubenzuron	Dimilin 2L	None listed	1	Restricted use; apply at egg hatch and when larvae are less than 1/2 inch long
gamma-cyhalothrin	Declare	0	7	Restricted use
lambda-cyhalothrin	Warrior II, Karate, Lambda-cy, generics	0	7 for hay, 0 for forage	Restricted use
malathion	Malathion 57EC	0	0	General use
methoxyfenozide	Intrepid	0	7	General use
spinosad	Tracer, Blackhawk	Allow spray to dry	3	General use; target small larvae or egg hatch
zeta-cypermethrin	Mustang Maxx	Allow spray to dry	0	Restricted use

Cost \$\$\$

- ▶ Lambda Cy- 1.2oz./ ac Covers 107 ac. Cost \$48.59 per gal. and \$.45/ac
- ▶ Mustang Maxx-2.8-4oz./ ac. Covers 37 ac. Cost \$175.57/gal. \$4.67/ac
- ▶ Dimlin 2L-1-2oz/ac. Covers 64 ac. Cost \$299.33/gal. \$4.68/ac
- ▶ Carbaryl (SEVIN)-1qt./ac. Covers 10ac. Cost \$118.70/2.5gal. \$11.87/ac.



► Happy cutting



- ▶ Crispin Skinner
Sales Representative
EDC Ag Products
(972) 342-2345
cskinner@lsbindustries.com