12/6/2010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

12/6/2010

Mr. Timothy E. Wilson Regulatory Product Manager Syngenta Crop Protection, Inc. P.O. Box 18300 Greensboro, NC 27419

Subject: Notification to add alternate brand name EPA Registration Number: 100-1112 Date of Submission: September 7, 2010

Dear Mr. Wilson:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration (PRN)98-10 dated September 7, 2010, for the abovementioned product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the actions requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions regarding this letter, please contact Samantha Hulkower at (703) 603-0683.

Sincerely,

Mark Suarez Product Manager 13 Insecticide Branch Registration Division (7505P)

Enclosures: Copy of Label Stamped "Notification"

	(nited St	ates		ration	OPP Identifier Number
SEPA	Environmental Prot		Amend		NOTIFICATION
	Washington, D	• •	× Other		
		cation for Pesticio	de - Section I	<u> </u>	· · · · · · · · · · · · · · · · · · ·
. Company/Product N		2. EF	A Product Manager	3. Pr	oposed Classification
100-1112 Company/Product (N	(ama)	Richard PM	d Gebkin		None x Restricted
	rith Zeon Technology®	PM 13			None x Restricted
Name and Address of Syngenta Crop P. O. Box 1830	of Applicant (<i>Include ZIP Code)</i> Protection, Inc. D	6. Ex my produ	pedited Review. In accurate is similar or identical		FRA Section 3(c)(3) (b)(i), nd labeling to:
Greensboro, NO	, 27419	EPA Reg	j. NO.		
Check	if this is a new address	Product	Name		
		Section - II			
Amendment - E>	plain below.		Final printed lab		to
Resubmission in	response to Agency letter dated		Agency letter da		
X Notification - Exp	ulain below.		Other - Explain	below.	
······································	litional page(s) if necessary.				<u></u>
Syngenta Crop Prote	is 12 and 14 of FIFRA. ection Inc., is submitting a N poses the alternate brand n	ame of " Lamcap™		eon Technol	ogy® (EPA Reg. No.
Material This Dead		Section – II			
 Material This Production Child-Resistant Packaging 	ct Will Be Packaged In:	Water Solu	uble Packaging 2	Type of Cor	tainer
Yes*	Yes	Yes			etal
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e submitted	Unit Packaging wgt. Co	ontainer Unit Packagi	ng wgt. container	o	ther (Specify)
3. Location of Net Cont	ents Information 4.	Size(s) Retail Contain	er 5	Location of Lab	el Directions
X Label	Container 1 c	al, 15 gal, 120 gal, bulk		x On Label	ing accompanying product
Manner in Which Lal	bel is Affixed to Product	Lithograph Paper glued	Other		<u> </u>
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		 Section – IV	/	-	
Contact Point (Com	plete items directly below for iden			ry, to process th	is application.)
Le construction de la constructi	-	Title	Des duet Mexager		e No. (Include Area Code)
			Product Manager, Insecticides	336.632	-2011
_{Name} Timothy E. Wilson			11000000000	I	6 Data Application
Timothy E. Wilson		ertification			6. Date Application
Timothy E. Wilson I certify that the state I acknowledge that	ements I have made on this form a ny knowingly false or misleading s	and all attachments ther			Received (Stamped)
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EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete.

Syngenta Crop Protection, Inc. P.O. Box 18300 Greensboro, NC 27419-8300



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September 7, 2010

Document Processing Desk (NOTIF) Office of Pesticide Programs (7504P) U.S. Environmental Protection Agency Room S-4900, One Potomac Yard 2777 South Crystal Drive Arlington, VA 22202-4501

Attention: Ms. Linda Arrington

SUBJECT: WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY EPA REG NO. 100-1112 NOTIFICATION OF ALTERNATE BRAND NAME "Lamcap™"

Syngenta Crop Protection Inc., is submitting a Notification for Warrior Insecticide with Zeon Technology® (EPA Reg. No. 100-1112) which proposes the alternate brand name of "Lamcap[™]".

To complete this Notification enclosed are:

- One copy of the label with the changes clearly marked
- One unmarked copy of the label
- A CD of the unmarked copy of the label for "Electronic Comparison and Review"
- Certificate with Respect to Label Integrity Form
- Completed EPA Form 8570-1

We trust that you will find this submission in order; however, should there be any questions; please contact me at 336.632.2877 or via e-mail at timothy.wilson@syngenta.com.

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Sincerely hote

Timothy E. Wilson Regulatory Product Manager, Fungicides/Insecticides Syngenta Crop Protection, Inc.

Enclosures

(Master label)

RESTRICTED USE PESTICIDE DUE TO TOXICITY TO FISH AND AQUATIC ORGANISMS

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.

Warrior Insecticide with Zeon Technology®Lamcap™

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Active Ingredient: Lambda-cyhalothrin ¹	
$[1\alpha(S^*), 3\alpha(Z)]$ -(±)-cyano-(3-phenoxyphenyl)methyl-	
3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-	
dimethylcyclopropanecarboxylate	
Other Ingredients:	88.6%
Total:	100.0%

Warrior Insecticide with Zeon TechnologyLamcap contains 1 lb. of active ingredient per gal. and is a capsule suspension.

¹Synthetic pyrethroid

KEEP OUT OF REACH OF CHILDREN.

WARNING/AVISO

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

See additional precautionary statements and directions for use in booklet.

EPA Reg. No. 100-1112 EPA Est. XXXX

Product of XXXXX Formulated in USA

SCP 1112-M(Notif Lamcap)

Net Contents

NOTIFICATION

DEC - 6 2010

Group 3 Insecticide

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	FIRST AID
If swallowed	 Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person.
	 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.
lf 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.
lf on skin or	Take off contaminated clothing.
clothing	• Rinse skin immediately with plenty of water for 15-20 minutes.
-	Call a poison control center or doctor for treatment advice.
If inhaled	Move person to fresh air.
	 If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
	 Call a poison control center or doctor for further treatment advice.
Have the product	container or label with you when calling a poison control center or
doctor, or going for	
	HOT LINE NUMBER
For 24	4 Hour Medical Emergency Assistance (Human or Animal)
or Che	mical Emergency Assistance (Spill, Leak, Fire, or Accident),
	Call
	1-800-888-8372

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

WARNING/AVISO

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

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Skin exposure may also result in a sensation described as a tingling, itching, burning, or prickly feeling. Onset may occur immediately to 4 hrs. after exposure and may last 2-30 hrs., without damage. Wash exposed areas once with soap and water. Relief from the skin sensation may be obtained by applying an oil-based cream.

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Personal Protective Equipment (PPE)

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

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, Category F, such as barrier laminate, butyl rubber, nitrile rubber, or Viton[®] ≥ 14 mils
- Shoes plus socks
- Protective eyewear

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/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 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.

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

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This pesticide is extremely toxic to fish and aquatic organisms and toxic to wildlife.

For terrestrial uses: 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 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 disposing of equipment washwater.

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.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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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.

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The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, Inc. or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and, (2) Buyer and User assume the risk of any such use. To the extent permitted by applicable law, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

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DIRECTIONS FOR USE

RESTRICTED USE PESTICIDE

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

SHAKE WELL BEFORE USING.

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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.

This labeling must be in the possession of the user at the time of application.

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.

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
- Chemical-resistant gloves, Category F, such as barrier laminate, butyl rubber, nitrile rubber, or Viton[®] ≥ 14 mils
- Shoes plus socks

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR INSECT CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.

GENERAL DIRECTIONS FOR USE

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Initial and residual control are contingent upon thorough crop coverage. Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. Apply in a minimum of 2 gals. per acre by air or 10 gals. per acre by ground unless otherwise specified in this label. When foliage is dense or pest pressure is high (heavier insect or egg pressure, larger larval stages), use of higher application volumes and/or higher use rates may improve initial and residual control.

For cutworm control, Warrior Insecticide with Zeon TechnologyLamcap may be applied before, during, or after planting. For soil incorporated applications, use higher rates for improved control.

RESISTANCE MANAGEMENT

Warrior Insecticide with Zeon TechnologyLamcap is a Group 3 Insecticide (contains the active ingredient lambda-cyhalothrin). Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state agricultural authorities for details.

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 difficulty with 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 DRIFT PRECAUTIONS

BUFFER ZONES

Vegetative Buffer Strip

Construct and maintain a minimum 10-foot-wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries; and commercial fish farm ponds).

Only apply products containing Warrior Insecticide with Zeon TechnologyLamcap onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.

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For guidance, refer to the following publication for information on constructing and maintaining effective buffers:

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Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. USDA, NRCS. 2000. Fort Worth, Texas. 21 pp. <u>www.in.nrcs.usda.gov/technical/agronomy/newconbuf.pdf</u>

In the State of New York, a 25 ft. vegetated, non-cropped buffer strip untraversed by drainage tiles must be maintained between a treated field and a coastal salt marsh or stream that drains into a coastal salt marsh, for both aerial or ground application. For aerial applications, the 25 ft. vegetated non-cropped buffer strip for runoff protection would be part of the larger 150 ft. buffer strip (or 450 ft. buffer strip for ULV application) required for spray drift.

Buffer Zone for Ground Application (groundboom, overhead chemigation, or airblast)

Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes; natural ponds; estuaries; and commercial fish ponds).

Buffer Zone for ULV Aerial Application

Do not apply within 450 feet of aquatic habitats (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes; natural ponds; estuaries; and commercial fish ponds).

Buffer Zone for Non-ULV Aerial Application

Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes; natural ponds; estuaries; and commercial fish ponds).

SPRAY DRIFT REQUIREMENTS

Wind Direction and Speed

Only apply this product if the wind direction favors on-target deposition.

Do not apply when the wind velocity exceeds 15 mph.

Temperature Inversion

Do not make aerial or ground applications into temperature inversions.

Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

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Droplet Size

Use only medium or coarser spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

Additional Requirements for Ground Applications

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Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.

For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy.

For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

Additional Requirements for Aerial Applications

The spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or 80% rotor diameter.

Flight speed and nozzle orientation must be considered in determining droplet size.

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 cross-wind, the swath will be displaced downward. 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

When tank mixing with any other agricultural products, **always add Warrior Insecticide with Zeon TechnologyLamcap last**. Fill the tank with 1/2 to 2/3 volume of the mixing diluent. Make sure all other products are fully dispersed in the mixing diluent before adding the recommended rate of Warrior Insecticide with Zeon TechnologyLamcap to the tank. Add the remainder of the mixing diluent volume. It is recommended that mixing and spray equipment have continuous agitation for best results. Follow the precautions and limitations of the most restricted product in the tank mixture.

While Warrior Insecticide with Zeon TechnologyLamcap has good flexibility for tank mixing with other agricultural products, a jar test for physical compatibility is

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Warrier Insecticide with Zeon TechnologyLamcap is an aqueous based formulation. It is recommended that no type of non-emulsifiable oils be used in combination with Warrier Insecticide with Zeon TechnologyLamcap. 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),
- Methylated Sunflower Oils (MSO) containing a minimum of 17% emulsifier.

Adjuvants other than NIS or COC may be used providing the product meets the following criteria:

- 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 Warrior Insecticide with Zeon TechnologyLamcap on the target crop through proven field trials and through university and extension recommendations.

In addition, the following may be used as diluents:

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- Crop Oil Concentrate
- Methylated Sunflower Oils
- Urea-Ammonium Nitrate

It is recommended that the following not be used in combination with Warrior Insecticide with Zeon TechnologyLamcap as diluents or adjuvants:

- Non-emulsifiable oils
- Diesel Fuel
- Straight Mineral Oil

CHEMIGATION

Sprinkler Irrigation Application

Apply Warrier Insecticide with Zeon TechnologyLamcap at rates and timing described elsewhere in this label. As local recommendations differ, consult your local State Extension Service or other local experts for recommendations on adjuvant or diluent types, (see TANK MIX APPLICATION) rates and mixing instructions. These recommendations should be proven, through university and extension field trials, to be effective with Warrier Insecticide with Zeon TechnologyLamcap applied by chemigation.

Check the irrigation system to insure uniform application of water to all areas. Thorough coverage of foliage is required for good control. Good agitation in the pesticide supply tank should be maintained prior to and during the entire application period.

Apply by injecting the recommended rate of Warrior Insecticide with Zeon TechnologyLamcap into the irrigation system using a metering device that will introduce a constant flow and by distributing the product to the target area in 0.1–0.2 acre-inch of water. In general, use the least amount of water required for proper distribution and coverage. It is recommended that the product be injected into the main irrigation line ahead of a right angle turn in the line to insure adequate dispersion or mixing in the irrigation water. Once the application is completed, flush the entire irrigation and injection system with clean water before stopping the system.

In addition to the above recommendations, if application is being made during a normal irrigation set of a stationary sprinkler, the recommended rate of Warrior Insecticide with Zeon TechnologyLamcap for the area covered should be injected into the system only during the end of the irrigation set for sufficient time to provide adequate coverage and product distribution.

It is not recommended that Warrior Insecticide with Zeon TechnologyLamcap be applied through an irrigation system 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 out of the year.

Use Precautions: Sprinkler Irrigation Application

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- A. Apply this product only through (sprinkler including center pivot, lateral move, end tow, side [wheel] roll, traveler, big gun, solid set, or hand move) irrigation system(s). Do not apply this product through any other type of irrigation system.
- B. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.
- C. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
- D. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

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E. 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.

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- F. 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.
- G. The pesticide injection pipeline must contain a functional, automatic, quickclosing check valve to prevent the flow of fluid back toward the injection pump.
- H. 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.
- I. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- J. 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.
- K. 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.
- L. Any alternatives to the above required safety devices must conform to the list of EPA-approved alternative devices.
- M. Do not apply when wind speed favors drift beyond the area intended for treatment or non-uniform distribution of treated water.
- N. Do not apply through chemigation systems connected to public water systems.

SPECIFIC USE DIRECTIONS

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AGRICULTURAL USES Rate			
		Rate	
Crop	Target Pests	lb. a.i./A	fl. oz./A
ALFALFA AND AL	FALFA GROWN FOR SEED	<u> </u>	
	Alfalfa Caterpillar Army Cutworm Cutworm species Green Cloverworm Leafhopper species Looper species Threecornered Alfalfa Hopper Velvetbean Caterpillar Webworm species	0.015–0.025	1.92–3.20
	Alfalfa Seed Chalcid (Adult) Alfalfa Weevil Armyworm Bean Leaf Beetle (Adult) Blister Beetle species Blue Alfalfa Aphid Clover Leaf Weevil species Clover Root Borer (Adult) Clover Root Curculio species (Adult) Clover Stem Borer (Adult) Corn Earworm Cowpea Aphid Cowpea Curculio (Adult) Cowpea Veevil (Adult) Courber Beetle species (Adult) Egyptian Alfalfa Weevil Fall Armyworm ¹ Grape Colaspis (Adult) Green Peach Aphid ³ Japanese Beetle (Adult) Meadow Spittlebug Mexican Bean Beetle Pea Aphid Pea Weevil (Adult) Plant Bug species including Lygus species ³ Spotted Alfalfa Aphid Stink Bug species Sweet Clover Weevil (Adult) Thrips species ⁴ Western Yellowstriped Armyworm Whitefringed Beetle species (Adult) Yellowstriped Armyworm	0.02 - 0.03	2.56 - 3.84
	Beet Armyworm ^{1,3} Blotch Leafminer ³ Spider Mites ²	0.03	3.84

Remarks

- Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. Apply in a
 minimum of 2 gals. per acre by air or 10 gals. per acre by ground. When foliage is dense and/or pest
 populations are high 5~10 gals. per acre by air or 20 gals. per acre by ground and higher use rates
 are recommended. Use higher rates for increased residual control.
- Avoid application when bees are actively foraging by applying during the early morning or during the evening hours. Be aware of bee hazard resulting from a cool evening and/or morning dew. It may be advisable to remove bee shelters during and for 2–3 days following application. Avoid direct application to bee shelters.
- Do not apply more than 0.03 lb. a.i. (3.84 fl. oz. or 0.24 pts. of product) per acre per cutting.
- Do not apply more than 0.12 lb. a.i. (15.36 fl. oz. or 0.96 pts. of product) per acre per season.
- Do not apply within 1 day of harvest for forage or within 7 days of harvest for hay.

³ See **Resistance** statement under **General Directions for Use**.

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⁴Does not include Western Flower Thrips.

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¹ Use higher rates for large larvae.

² Suppression only.

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		Ra	fl. oz./A	
Crop	Target Pests	lb. a.i./A		
CANOLA	····			
	Armyworm species Cabbage Seedpod Weevil Cutworm species Diamondback Moth Flea Beetle Grasshoppers Looper species Lygus Bug	0.015 – 0.03	1.92 – 3.84	
	Cabbage Aphid	0.03	3.84	

Remarks

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold.
- Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply a minimum of 2 gals. of water per acre.
- Do not apply within 7 days of harvest.
- Do not apply more than 0.09 lb. a.i. (11.52 fl. oz. or 0.72 pts. of product) per acre per year.

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19/61

		Ra	fl.oz./A	
Crop	Target Pest	lb. a.i./A		
CEREAL GRAINS				
Corn (At Plant): Field Corn Popcorn Seed Corn Sweet Corn	Corn Rootworm Larvae: Mexican Northern Southern Western Cutworm species Lesser Cornstalk Borer Red Imported Fire Ant ¹ Seedcorn Beetle Seedcorn Maggot White Grub species Wireworm species	0.005 lbs. a.i. per 1000 ft. of row ²	0.66 fl. oz. per 1000 ft. of row ²	

Remarks

- Banded Applications Apply at planting as a 5–7 inch T–band sprayed across the open seed furrow between the furrow openers and the press wheels or as a band application behind the press wheel.
- In-Furrow Applications Apply into the seed furrow through spray nozzles or microtubes, behind the planter furrow openers and in front of the press wheel.
- Apply a minimum of 3 gals. finished spray per acre.

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- Do not harvest or graze livestock or cut treated crops for feed within 21 days of at plant application.
- Do not apply more than 0.09 lb. a.i. (11.52 fl. oz. or 0.72 pts. of product) per acre per crop at plant.
- For field corn, popcorn, and seed corn **do not** apply more than 0.12 lb. a.i. (15.36 fl. oz. or 0.96 pts. of product) per acre per crop from at plant and foliar applications. For sweet corn **do not** apply more than 0.48 lb. a.i. (61.44 fl. oz. or 3.84 pts. of product) per acre per crop from at plant and foliar applications.

¹Suppression only.

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² Lbs. a.i. and fl.	oz./A of Warrior	Insecticide With Va	Zeon Technology rious Row Spacir		at 0.66 fl. oz./100	0 ft. of Row for
Row Spacing	40"	38"	36"	34"	32"	30"
Linear Ft./A	13,068	13,756	14,520	15,374	16,335	17,424
Lbs. a.i./A	0.067	0.07	0.075	0.079	0.084	0.09
FI. oz./A	8.6	9.1	9.6	10.1	10.8	11.5

		Ra	te	
Crop	Target Pests	ib. a.i./A	fl. oz./A	
CEREAL GRAINS	· · · · · · · · · · · · · · · · · · ·			
Corn (Foliar) Field Corn Popcorn Seed Corn	Corn Earworm ¹ Cutworm species Green Cloverworm Meadow Spittlebug Western Bean Cutworm ¹	0.015 0.025	1.92 – 3.20	
	Armyworm ² Bean Leaf Beetle Bird Cherry-Oat Aphid ³ Cereal Leaf Beetle Corn Leaf Aphid ³ Corn Rootworm Beetle (Adult): Mexican Northern Southern Western English Grain Aphid ³ European Corn Borer ¹ Fall Armyworm ² Flea Beetle species Grasshopper species Hop Vine Borer ¹ Japanese Beetle (Adult) Lesser Cornstalk Borer Sap Beetle (Adult) Seedcorn Beetle Southwestern Corn Borer ¹ Stalk Borer ¹ Stink Bug species Tobacco Budworm ^{1,4} Webworm species Yellowstriped Armyworm ²	0.02 - 0.03	2.56 - 3.84	
	Beet Armyworm ⁴ Chinch Bug Greenbug ^{3,4} Mexican Rice Borer ¹ Rice Stalk Borer ¹ Southern Corn Leaf Beetle ³ Sugarcane Borer ¹	0.03	3.84	

Remarks

- Apply as required by scouting, or locally prescribed corn growth stages, usually at intervals of 7 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds or other locally recommended methods.
- Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of target location. When applying by air, apply in a minimum of 2 gals. of water per acre.
- For chinch bug control, begin applications when bugs migrate from small grains or grass weeds to

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small corn. Direct spray to the base of corn plants. Repeat applications at 3-5-day intervals if needed. Warrior Insecticide with Zeon TechnologyLamcap may only suppress heavy infestations and/or subsequent migrations.

- For control of adult corn rootworm beetles (*Diabrotica* species) as part of an aerial applied corn rootworm control program use a minimum of 0.03 lb. a.i (3.84 fl. oz. of product) per acre.
- Do not apply within 21 days of harvest.
- Do not allow livestock to graze in treated areas or harvest treated corn forage as feed for meat or dairy animals within 1 day after last treatment. Do not feed treated corn fodder or silage to meat or dairy animals within 21 days after last treatment.
- **Do not** apply more than 0.12 lb. a.i. (15.36 fl. oz. or 0.96 pts. of product) per acre per crop from at plant and foliar applications.
- Do not apply more than 0.06 lb. a.i. (7.68 fl. oz. or 0.48 pts. of product) per acre after silk initiation.
 Do not apply more than 0.03 lb. a.i. (3.84 fl. oz. or 0.24 pts. of product) per acre after corn has reached the milk stage (yellow kernels with milky fluid).

¹For control before the larva bores into the plant stalk or ear.

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²Use higher rates for large larvae.

³Suppression only.

⁴See **Resistance** statement under **General Directions for Use**.

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		Ra	te	
Crop	Target Pests	lb. a.i./A	fl. oz./A	
CEREAL GRAINS				
Sweet Corn (Foliar)	Aphid species ^{2.3} Armyworm ¹ Aster Leafhopper Beet Armyworm ^{1.3} Chinch Bug Common Cornstalk Borer Corn Earworm Corn Rootworm Beetle (Adult): Mexican Northern Southern Western Cutworm species European Corn Borer Fall Armyworm ¹ Flea Beetle species Grasshopper species Japanese Beetle (Adult) Sap Beetle (Adult) Southern Armyworm ¹ Southwestern Corn Borer Spider Mite species ² Stink Bug species Tarnished Plant Bug Webworm species Western Bean Cutworm	0.02 – 0.03	2.56 – 3.84	
	Corn Silkfly (Adult) ²	0.03	3.84	

Remarks

- Apply as required by scouting, or locally prescribed corn growth stages, usually at intervals of 4 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds or other locally recommended methods and should be targeted for control before insects enter the stalk or ear.
- Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of foliage and ears (if present). When applying by air, apply in a minimum of 2 gals. of water per acre.
- For control of adult corn rootworm beetles (*Diabrotica* species) as part of an aerial applied corn rootworm control program use a minimum of 0.025 lb. a.i. (3.2 fl. oz. of product) per acre.
- Do not apply within 1 day of harvest.
- Do not allow livestock to graze in treated areas or harvest treated corn forage as feed for meat or dairy animals within 1 day after last treatment. Do not feed treated corn fodder or silage to meat or dairy animals within 21 days after last treatment.
- **Do not** apply more than 0.48 lb. a.i. (61.44 fl. oz. or 3.84 pts. of product) per acre per crop from at plant and foliar applications.

¹Use higher rates for large larvae.

²Suppression only.

³See **Resistance** statement under **General Directions for Use**.

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		Ra	te	
Crop	Target Pests	lb. a.i./A	fl. oz./A	
CEREAL GRAINS				
Rice Wild Rice	Bird Cherry-Oat Aphid Chinch Bug Fall Armyworm Grasshopper species Greenbug Leafhopper species Rice Stink Bug Riceworm Rice Water Weevil (Adult) Sharpshooter species True Armyworm Yellow Sugarcane Aphid Yellowstriped Armyworm	0.025 – 0.04	3.20 – 5.12	
	European Corn Borer ¹ Mexican Rice Borer ¹ Rice Seed Midge ¹ Rice Stalk Borer ¹ Sugarcane Borer ¹	0.03 – 0.04	3.84 – 5.12	

Remarks

- Apply as required by scouting. Timing and frequency of application should be based upon insect populations reaching locally determined economic thresholds. Determine the need for repeat applications, usually at intervals of 5–7 days, by scouting.
- Warrior-Insecticide with Zeon TechnologyLamcap can be safely used when propanil products are being used for weed control.
- Apply by air or by ground equipment using sufficient water to obtain full coverage of foliage. When
 applying by air, apply in a minimum of 2 gals of water (or a total carrier volume) per acre but ensure
 sufficient volume is used to provide adequate coverage. In addition, adding an emulsifiable crop oil
 (e.g., 1 pt. per acre) when lower aerial application volumes are used is recommended to help improve
 coverage, reduce evaporation, and improve efficacy.
- For control of rice water weevil in dry seeded rice, make a foliar application as indicated by scouting for the presence of adults and/or feeding scars, usually within a time-frame of 0–5 days after permanent flood establishment. Do not exceed 10 days from starting permanent flood until insecticide application unless scouting indicates weevils have not been previously present. Adults may also be treated at later stages of rice development to reduce overwintering populations.
- For control of rice water weevil in water seeded rice, make the first foliar application after pinpoint flood as indicated by scouting for the presence of adults and/or feeding scars usually when rice has emerged 0.5 inch above the waterline. Under conditions of prolonged migration into the field, start field scouting for rice water weevil adults and/or feeding scars 3–5 days after the initial treatment and, if needed, apply a second application within 7–10 days of the first application. Adults may also be treated at later stages of rice development to reduce overwintering populations.
- California: In addition to above directions for control of rice water weevil in water seeded rice, Warrior
 Insecticide with Zeon TechnologyLamcap may be applied at the 1–3 leaf growth stage, with the
 majority at the 2 leaf growth stage. Adults are vulnerable on levees and in the water. Larvae are
 vulnerable while feeding on the leaf prior to entering the soil. Monitor for adults, based upon field
 history and density of population. Monitor field edges and levee areas for adults. Treat in the
 following manner: a) spray the inside perimeter of the field, or b) spray the entire field.

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- Greenbug is known to have many biotypes. Warrior Insecticide with Zeon-TechnologyLamcap may
 only provide suppression. If satisfactory control is not achieved with the first application of Warrior
 Insecticide with Zeon TechnologyLamcap, a resistant biotype may be present. Use alternate
 chemistry for control.
- For control of stem borers, scout fields, when rice growth is near panicle differentiation, for early symptoms of damaging populations exhibited as discoloration (orange-tan) around the junction of the leaf sheath and leaf blade which is caused by feeding of young larvae within the sheath. Applications must be made before larvae bore into rice stems. Make the first application at panicle differentiation to 2 inch panicle for partial control. Make the second application at boot to heading for maximum control. All rice varieties are susceptible to stem borer damage, but Cocodrie and Priscilla are particularly susceptible.
- Mixers/loaders supporting aerial applications to wild rice at a rate of 0.04 lb. ai. per acre, and treating 1200 acres (or more) per day must wear dust-mist respirator.
- Do not release flood water within 7 days of an application.

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- Do not apply more than 0.12 lb. a.i. (15.36 fl. oz. or 0.96 pts. of product) per acre per season.
- **Do not** apply more than 0.04 lb. a.i. (5.12 fl. oz. or 0.32 pt. of product) per acre within 21 to 27 days of harvest.
- **Do not** apply within 21 days of harvest.
- Do not use treated rice fields for the aquaculture of edible fish and crustacea.
- **Do not** apply as an ultra-low volume (ULV) spray.

¹ For control before the larvae bores into the plant stalk.

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Сгор		Ra	Rate	
	Target Pests	lb. a.i./A	fl. oz./A	
CEREAL GRAINS				
Sorghum (Grain)	Cutworm species Sorghum Midge	0.015 – 0.02	1.92 – 2.56	
	Armyworm Beet Armyworm ³ Corn Earworm European Corn Borer ² Fall Armyworm ¹ Flea Beetle species Grasshopper species Lesser Cornstalk Borer ² Southwestern Corn Borer ² Stink Bug species Webworm species Yellowstriped Armyworm ¹	0.02 - 0.03	2.56 – 3.84	
	Chinch Bug Mexican Rice Borer ² Rice Stalk Borer ² Sugarcane Borer ²	0.03	3.84	

Remarks

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of target location. When applying by air, apply in a minimum of 2 gals, of water/A.
- For sorghum midge control, begin applications when 25% of the sorghum heads have emerged and are in tip bloom. Repeat applications at 5-day intervals if needed.
- For chinch bug control, begin applications when bugs migrate from small grains or grass weeds to small sorghum. Direct spray to the base of sorghum plants. Repeat applications at 3-5-day intervals if needed. Warrior Insecticide with Zeon TechnologyLamcap may only suppress heavy infestations and/or subsequent migrations.
- Do not apply more than 0.08 lb. a.i. (10.24 fl. oz. or 0.64 pts. of product) per acre per season.
- Do not apply more than 0.06 lb. a.i. (7.68 fl. oz. or 0.48 pts. of product) per acre per season after crop emergence.
- Do not apply more than 0.02 lb. a.i. (2.56 fl. oz. or 0.16 pts. of product) per acre per season once crop is in soft dough stage.
- Do not apply within 30 days of harvest.

¹Use higher rates for large larvae.

³See **Resistance** statement under **General Directions for Use**.

²For control before the larva bores into the plant stalk.

		Rate	
Сгор	Target Pests	lb. a.i./A	fl. oz./A
CEREAL GRAINS	· · · · · · · · · · · · · · · · · · ·		
Barley Buckwheat Oats	Army Cutworm Cutworm species	0.015 - 0.025	1.92 – 3.20
Rye Triticale Wheat Wheat Hay	Armyworm Bird Cherry-Oat Aphid ¹ Cereal Leaf Beetle English Grain Aphid ¹ Fall Armyworm Flea Beetle species Grasshopper species Hessian Fly ⁴ Orange Blossom Wheat Midge Russian Wheat Aphid ¹ Stink Bug species Yellowstriped Armyworm	0.02 0.03	2.56 – 3.84
	Grass Sawfly	0.025 - 0.03	3.20 – 3.84
	Chinch Bug Corn Leaf Aphid ² Greenbug ^{1,3} Mite species ²	0.03	3.84

Remarks

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water per acre.
- For chinch bug control, repeat applications at 3-5-day intervals if needed. Warrior Insecticide with Zeon TechnologyLamcap may only suppress heavy infestations and/or migrations.
- Greenbug is known to have many biotypes. Warrior Insecticide with Zeon TechnologyLamcap may
 provide suppression only. In this situation, a second application using an alternative chemistry may
 be needed.
- Do not apply within 30 days of harvest.
- Do not allow livestock to graze in treated areas or harvest treated wheat forage as feed for meat or dairy animals within 7 days after treatment. Do not feed treated straw to meat or dairy animals within 30 days after the last treatment.
- Do not apply more than 0.06 lb. a.i. (7.68 fl. oz. or 0.48 pts. of product) per acre per season.

¹Best control is obtained before insects begin to roll leaves. Once crop has started to boot, Warrior Insecticide with Zeon TechnologyLamcap may provide suppression only. Higher rates and increased coverage will be necessary.

²Suppression only.

³See **Resistance** statement under **General Directions for Use**.

⁴Make applications when adults emerge.

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	Target Pests	Rate	
Crop		lb. a.i./A	fl. oz./A
COLE CROPS(Head and Ste	m <i>Brassica</i>)		· · · · · · · · · · · · · · · · · · ·
Broccoli Brussels Sprouts Cabbage Cauliflower Cavalo Broccolo Chinese Broccoli (gai Ion) Chinese Cabbage (napa)	Alfalfa Looper Cabbage Looper Cabbage Webworm Cutworm species Imported Cabbageworm Southern Cabbageworm	0.015 – 0.025	1.92 – 3.20
Chinese Mustard Cabbage (gai choy) Kohlrabi	Aphid species ^{2,3} Armyworm Beet Armyworm ^{1,3} Corn Earworm Diamondback Moth ³ Fall Armyworm ¹ Flea Beetle species Grasshopper species Japanese Beetle (Adult) Leafhopper species Meadow Spittlebug Plant Bug species including Lygus species ³ Spider Mite species ² Stink Bug species ² Stink Bug species ² Vegetable Weevil (Adult) Whitefly species ^{2,3} Yellowstriped Armyworm	0.02 - 0.03	2.56 – 3.84

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Remarks

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water per acre.
- Do not apply within 1 day of harvest.
- Do not apply more than 0.24 lb. a.i. (30.72 fl. oz. or 1.92 pts. of product) per acre per season.

¹For control of first and second instar only.

²Suppression only.

³See **Resistance** statement under **General Directions for Use**.

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Сгор		Ra	Rate	
	Target Pests	lb. a.i./A	fl. oz./A	
DTTON				
	Cutworm species Soybean Thrips Tobacco Thrips	0.015 – 0.02	1.92 – 2.56	
	Cabbage Looper Cotton Fleahopper Cotton Leafperforator Cotton Leafworm Lygus Bug species ³ Pink Bollworm Saltmarsh Caterpillar	0.02 – 0.03	2.56 – 3.84	
	Bandedwing Whitefly ^{2,3} Beet Armyworm ^{1,3} Boll Weevil Brown Stink Bug Cotton Aphid ^{2,3} Cotton Bollworm European Corn Borer Fall Armyworm Green Stink Bug Southern Green Stink Bug Sweetpotato Whitefly ^{2,3} Tobacco Budworm ³ Twospotted Spider Mite ²	0.025 – 0.04	3.20 – 5.12	

Remarks

- Apply as required by scouting, usually at intervals of 5-7 days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water to obtain full coverage of foliage.
- Applications may also be made with equipment adapted and calibrated for ULV sprays. Warrior Insecticide with Zeon TechnologyLamcap may be mixed with once-refined vegetable oil and applied in a minimum of at least one qt. of finished spray/A.
- Under light bollworm/budworm infestation levels, 0.02 lb. a.i. (2.56 fl. oz. of product) per acre may be applied in conjunction with intense field monitoring.
- For boll weevil control spray on a 3-5 day schedule.
- When applied according to label directions for control of cotton bollworm and tobacco budworm, Warrior Insecticide with Zeon TechnologyLamcap also provides ovicidal control of unhatched Heliothine species eggs.
- Do not apply within 21 days of harvest.
- Do not graze livestock in treated areas.
- Do not apply more than 0.2 lb. a.i. (25.6 fl. oz. or 1.6 pts. of product) per acre per season.
- **Do not** make more than a total of 10 synthetic pyrethroid applications (of one product or combination of products) to a cotton crop in one growing season.

¹For control of first and second instar only.

²Suppression only.

³See **Resistance** statement under **General Directions for Use**.

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		Ra	Rate	
Сгор	Target Pests	lb. a.i./A	fl. oz./A	
CUCURBIT VEGETABLES	· · · · · · · · · · · · · · · · · · ·			
Chayote (fruit) Chinese Waxgourd (Chinese preserving melon) Citron Melon Cucumber Gherkin Gourd (edible) <i>Lagenaria</i> species – includes: hyotan, cucuzza <i>Luffa</i> acutangula, <i>L.</i> cylindrical - includes: hechima, Chinese okra <i>Momordica</i> species – includes: balsam apple, balsam pear, bitter melon, Chinese cucumber Muskmelon (hybrids and/or cultivars of <i>Cucumis melo</i>) – includes: true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, snake melon Pumpkin Squash, summer (<i>Cucurbita pepo</i> var. <i>melopepo</i>) – includes: crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini Squash, winter (<i>Cucurbita maxima; C. moschata</i>) – includes butternut squash, calabaza, hubbard squash (<i>C. mixta; C. pepo</i>) - includes: acorn squash, spaghetti squash	Armyworm species ¹ Blister Beetle species Cabbage Looper Corn Earworm Cricket species Cucumber Beetle species (adults) Cutworm species Flea Beetle species Grasshopper species June Beetle species Leaffooted Bug Leafhopper species Lygus Bug species ¹ Melonworm Plant Bug species Rindworm species complex Saltmarsh Caterpillar Squash Beetle Squash Bug species Squash Vine Borer species Stink Bug species ^{1, 2} Tobacco Budworm ¹ Webworm species	0.02-0.03	2.56-3.84	
	Aphid species ¹ Leafminer species ^{1, 3} Spider Mite species ³ Whitefly species ^{1, 3}	0.03	3.84	

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Remarks:

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of all plant parts. When applying by air, apply in a minimum of 2 gal. total solution per acre. When applying by ground, a minimum of 10 gal. total solution per acre is recommended.
- Use higher application volumes and/or rates when foliage is dense, pest populations are high, larvae are large, weather conditions are adverse and/or as plant size increases. Use higher rates for longer residual.
- Insects that bore or tunnel into leaves, vines, stems or fruit must be controlled before penetration. Only exposed insects (larvae and/or adults) can be controlled with foliar applications of Warrior Insecticide with Zeon TechnologyLamcap.
- Do not apply more than 0.18 lb. a.i. (23 fl. oz. or 1.44 pts. of product) per acre per season. Do not apply within 1 day of harvest.

¹See Resistance statement under General Directions for Use.

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²Does not include Western Flower Thrips

³Suppression only.

		Rate	
Crop FRUITING VEGETABLE	Target Pests	lb. a.i./A	fl. oz./A
Eggplant Ground cherry Pepino Peppers (bell and	Cabbage Looper Cutworm species Hornworm species	0.015 – 0.025	1.92 – 3.20
nonbell) Tomatillo Tomato	Aphid species ^{2.3} Beet Armyworm ^{1,3} Blister Beetle species Colorado Potato Beetle ³ Cucumber Beetle species (Adult) European Corn Borer ⁴ Fall Armyworm ¹ Flea Beetle species Grasshopper species Japanese Beetle (Adult) Leafhopper species Leafminer species ² Meadow Spittlebug Pepper Weevil (Adult) ² Plant Bug species Southern Armyworm ¹ Spider Mite species ² Stalk Borer ⁴ Stink Bug species Thrips ⁵ Tobacco Budworm ³ Tomato Fruitworm Tomato Psyllid ^{2.3} Vegetable Weevil (Adult) Whitefly species ^{2.3}	0.02 - 0.03	2.56 - 3.84

Remarks

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of • applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When • applying by air, apply in a minimum of 2 gals. of water per acre.
- Do not apply within 5 days of harvest. •
- Do not apply more than 0.36 lb. a.i. (46.08 fl. oz. or 2.88 pts. of product) per acre per season. •

¹For control of first and second instar only.

⁵Does not include Western Flower Thrips.

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²Suppression only. ³See **Resistance** statement under **General Directions for Use**.

⁴For control before the larva bores into the plant stalk or fruit.

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	1.	Rate	
Сгор	Target Pests	lb. a.i./A	fl. oz./A
GRASS FORAGE, FODDER A			
Pasture and Rangeland Grass, Grass Grown for Hay or Silage and Grass Grown for Seed	Army Cutworm Cutworm species Essex Skipper Range Caterpillar Striped Grass Looper	0.015-0.025	1.92-3.2
	Beet Armyworm Billbug species ³ Bird Cherry-Oat Aphid ¹ Black Grass Bug Black Turfgrass Beetle (adult) Blue Stem Midge Cereal Leaf Beetle Chinch Bug Crane Fly species Cricket species English Grain Aphid ¹ Fall Armyworm Flea Beetle species Grass Mealybug Grass Sawfly (adult) Grasshopper species Green June Beetle (adult) Greenbug ^{1, 2} Japanese Beetle (adult) Katydid species Leafhopper species Mite species ³ Russian Wheat Aphid ¹ Southern Armyworm Spittlebug species Stink Bug species Sugarcane Aphid Thrips species Tick species True Armyworm Webworm species Yellowstriped Armyworm	0.02-0.03	2.56-3.84

Remarks:

- Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gal. total solution per acre. When applying by ground, a minimum of 7 gal. total solution per acre is recommended.
- Use higher application volumes and rates when foliage is dense, pest populations are high, larvae are large and/or weather conditions are adverse. Use higher rates for longer residual.
- For chinch bug control, Warrior Insecticide with Zeon TechnologyLamcap may only suppress heavy infestations and/or migrations. In this situation, a second application using an alternative chemistry may be needed.

- Greenbug is known to have many biotypes. Warrior Insecticide with Zeon TechnologyLamcap may provide suppression only. In this situation, a second application using an alternative chemistry may be needed.
 - Pasture and rangeland grass 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. Grass grown for seed:
 - Straw and mature seed (seed screenings) may be used as feed 7 days after the last application. Regrowth of grass grown for seed may be used for grazing, cut for forage or cut to be dried and harvested for hay.
 - Do not apply more than 0.03 lb. a.i. (3.84 fl. oz. or 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. ai./A which have not been cut between
 applications.
 - Do not apply more than 0.09 lb. a.i. (11.52 fl. oz. or 0.72 pts. of product) per acre per season.

¹Best control is obtained before insects begin to roll leaves. ²See **Resistance** statement under **General Directions for Use**. ³Suppression only.

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Сгор	Target Pests	lb. a.i./A	fl. oz./A
LEGUME VEGETABLES	(Beans and Peas)		
Edible Podded (Only)	Cutworm species	0.015 - 0.025	1.92 - 3.2
	Green Cloverworm		
Canavalia	Imported Cabbageworm		
ensiformis	Mexican Bean Beetle		
– jackbean	Saltmarsh Caterpillar		
	Velvetleaf Caterpillar		
Canavalia gladiata			
 sword bean 			
Glycine max			
– soybean			
(immature seed)			
	Alfalfa Caterpillar	0.02 - 0.03	2.56 - 3.8
Edible Podded.	Aphid species ⁴		
Succulent Shelled or	Armyworm ²		
Dried Shelled	Bean Leaf Beetle		
	Bean Leafskeletonizer		
Cajanus cajan –	Blister Beetle species		
Pigeon pea	Corn Earworm		
	Corn Rootworm Beetle species (Adult)		
Phaseolus species –	Cucumber Beetle species (Adult)		
includes: field,	Curculio and Weevil species ¹ (foliage and		
kidney, lima, navy,	pod feeding adults and larvae)		
pinto, runner, snap,	European Corn Borer		
tepary and wax	Fall Armyworm ²		
beans	Flea Beetle species (Adult)		
	Flea Hopper species		
Pisum species –	Grasshopper species		
includes: dwarf,	Japanese Beetle (Adult)		Ì
edible-pod, English,	Leafhopper species		
field, garden, green,	Leaftier species		
snow and sugar	Looper Species		1
snap peas	Meadow Spittlebug		
1 Barris and a bi	Painted Lady Butterfly (Larva)		
Vigna species –	Plant Bug species Including Lygus species ⁴		
includes: adzuki,			
asparagus, moth,	Stink Bug species Threecornered Alfalfa Hopper		
mung, rice, urd and	Thrips species ^{4,5}		
yardlong beans,	Tobacco Budworm ⁴		
black-eye pea,	Webworm species		
catjang, Chinese	Western Bean Cutworm		
longbean, cowpea,	Western Yellowstriped Armyworm ²		
Crowder pea, and Southern pea	Yellowstriped Armyworm ²		
Southern pea			
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			Rate	
Crop	Target Pests	lb. a.i./A	fl. oz./A	
LEGUME VEGETABLES	6 (Beans and Peas)			
	Beet Armyworm ^{3,4} Leafminer species ^{3,4} Lesser Cornstalk Borer ³ Soybean Looper ^{3,4} Spider Mite species ³ Whitefly species ^{3,4}	0.03	3.84	
<i>Lens esculata –</i> Lentils				

Remarks

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of • applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When • applying by air, apply in a minimum of 2 gals. of water per acre.
- For edible podded and succulent shelled legume vegetables, do not apply within 7 days of harvest. •
- For dried shelled legume vegetables, do not apply within 21 days of harvest. •
- Do not apply more than 0.12 lb. a.i. (15.36 fl. oz. or 0.96 pts. of product) per acre per season.
- For succulent and dried shelled peas and beans, do not graze livestock in treated areas or harvest • vines for forage or hay.

¹For control before the larva bores into the plant stalk or pods.

²Use higher rates for large larvae.

³For suppression only.
 ⁴See **Resistance** statement under **General Directions for Use**.
 ⁵ Does not include Western Flower Thrips.

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Сгор		Rate	
	Target Pests	lb. a.i./A	fl. oz./A
LEGUME VEGETAE	BLES (SOYBEANS)		
Soybean	Bean Leaf Beetle		
	Cabbage Looper	0.015 – 0.025	1.92 – 3.20
	Corn Earworm		
	Corn Rootworm Beetle (Adult):		
	Mexican		
	Northern		
	Southern		
	Western		1
	Cutworm species		
	Green Cloverworm		
	Mexican Bean Beetle		
	Painted Lady (Thistle) Caterpillar	1	
	Potato Leafhopper	(
	Saltmarsh Caterpillar		
	Soybean Aphid⁴		
	Threecornered Alfalfa Hopper		
	Thrips species ⁵		
	Velvetbean Caterpillar		
	Woollybear Caterpillar		
	Armyworm ¹		·····
	Blister Beetle species	0.025 – 0.03	3.20 - 3.84
	European Corn Borer		
	Fall Armyworm ¹		
	Grasshopper species		
	Japanese Beetle (Adult)		
	Plant Bug species		
	Silverspotted Skipper		
	Stink Bug species		
	Tobacco Budworm ³		
	Webworm species		
	Yellowstriped Armyworm ¹		
	Beet Armyworm ^{2,3}		· · · · · · · · · · · · · · · · · · ·
	Lesser Cornstalk Borer ²	0.03	3.84
	Soybean Looper ^{2,3}	<u> </u>	
	Spider Mite species ²		

Remarks

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Do not graze or harvest treated soybean forage, straw or hay for livestock feed.
- Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water per acre.
- For control of adult corn rootworm beetles (*Diabrotica* species) as part of an aerial applied corn rootworm control program use a minimum of 0.02 lb. a.i. (2.56 fl. oz. of product) per acre.
- Do not apply within 30 days of harvest.
- Do not apply more than 0.06 lb. a.i. (7.68 fl. oz. or 0.48 pts. of product) per acre per season.

¹Use higher rates for large larvae.

²Suppression only.

- ⁴Use lower rates for early season applications and/or lighter populations.
- ⁵Does not include WesternFlower Thrips.

³See Resistance statement under General Directions for Use.

	Target Pests	Rate	
Crop		lb. a.i./A	fl. oz./A
ETTUCE (HEAD AND	LEAF)		······································
	Alfalfa Looper Cabbage Looper Cutworm species Green Cloverworm Imported Cabbageworm Saltmarsh Caterpillar	0.015 – 0.025	1.92 – 3.20
	Aphid species ^{2,3} Armyworm Beet Armyworm ^{1,3} Corn Earworm Diamondback Moth ³ European Corn Borer Fall Armyworm ¹ Flea Beetle species Grasshopper species Japanese Beetle (Adult) Leafhopper species Meadow Spittlebug Plant Bug species including Lygus species ³ Southern Armyworm Spider Mite species ² Stink Bug species Tobacco Budworm ³ Vegetable Weevil (Adult) Whitefly species ^{2,3}	0.02 - 0.03	2.56 – 3.84

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Remarks

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of • applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When • applying by air, apply in a minimum of 2 gals. of water per acre.
- Do not apply within 1 day of harvest. •
- Do not apply more than 0.3 lb. a.i. (38.4 fl. oz. or 2.4 pts. of product) per acre per season. • .

¹For control of first and second instar only. ²Suppression only.

³See **Resistance** statement under General Directions for Use.

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Сгор	Target Pests	Rate	
		lb. a.i./A	fl. oz./A
DNION (BULB) AND G	ARLIC		
	Cutworm species Leafminer species (Adult) Onion Maggot (Adult) Seedcorn Maggot (Adult)	0.015 – 0.025	1.92 – 3.20
	Aphid species ² Armyworm species ¹ Flower Thrips ^{2,3} Onion Thrips ³ Plant Bug species Stink Bug species Tobacco Thrips ³ Western Flower Thrips ^{2,3}	0.02 – 0.03	2.56 – 3.84

Remarks

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Use the higher label rates as thrips population increases and avoid rescue situations.
- Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water per acre.
- For thrips control by aerial application, the addition of 1% COC v/v, 1/4% NIS v/v or a silicone adjuvant (follow manufacturers use directions) may enhance the deposition of the spray and increase plant coverage.
- Do not apply within 14 days of harvest.
- Do not apply more than 0.24 lb. a.i. (30.72 fl. oz. or 1.92 pts. of product) per acre per season.

¹For control of the first and second instar only.
 ²Suppression only.
 ³See **Resistance** statement under **General Directions for Use.**

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		Rate	
Crop	Target Pests	lb. a.i./A	fl. oz./A
<u>SANUT</u>	Cutworm species Green Cloverworm Potato Leafhopper Rednecked Peanut Worm Threecornered Alfalfa Hopper Velvetbean Caterpillar	0.015 – 0.025	1.92 – 3.20
	Bean Leaf Beetle Corn Earworm Fall Armyworm ¹ Grasshopper species Southern Corn Rootworm (Adult) Stink Bug species Tobacco Thrips Vegetable Weevil Whitefringed Beetle (Adult)	0.02 - 0.03	2.56 – 3.84
	Aphid species ² Beet Armyworm ^{2,3} Lesser Cornstalk Borer ² Soybean Looper ^{2,3} Spider Mite species ²	0.03	3.84

Remarks

- Apply as required by scouting, usually at intervals of 7 or more days. Timing and frequency of ٠ applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When ٠ applying by air, apply in a minimum of 2 gals. of water per acre.
- Do not apply within 14 days of harvest. •
- Do not apply more than 0.12 lb. a.i. (15.36 fl. oz. or 0.96 pts. of product) per acre per season. •

¹Use higher rates for large larvae.
 ²Suppression only.
 ³See **Resistance** statement under **General Directions for Use.**

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		Rate	
Crop	Target Pests	lb. a.i./A	fl. oz./A
POME FRUITS	······································		
Apple Crabapple Loquat Mayhaw Oriental Pear Pear Quince	Apple Aphid Apple Maggot (Adult) Cherry Fruit Fly species (Adult) Codling Moth Green Fruitworm Japanese Beetle Leafhopper species Leafroller species Lesser Appleworm Omnivorous Leafroller Orange Tortrix Oriental Fruit Moth Pear Psylla ¹ Pear Sawfly Periodical Cicada Plant Bug species Plum Curculio Rosy Apple Aphid San Jose Scale (fruit infestations only) Spirea Aphid ¹ Stink Bug species Tent Caterpillar species Tree Borer species Tufted Apple Budworm Webworm species	0.02 - 0.04	2.56 – 5.12

Remarks

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds and IPM recommendations.
- Apply with ground or air equipment using sufficient water to obtain full coverage of the foliage or target area. When applying by air, apply in a minimum of 5 gals. of water/per acre, but use higher volumes as appropriate for thorough coverage.
- Do not apply within 21 days of harvest.
- **Do not** apply more than 0.2 lb. a.i. (25.6 fl. oz. or 1.6 pts. of product) per acre per year. **Do not** apply more than 0.16 lb. a.i. (20.48 fl. oz. or 1.28 pts. of product) per acre per year post bloom.

¹Suppression only

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		Ra	te	
Crop	Target Pests	lb. a.i./A	fl. oz./A	
STONE FRUITS				
Apricot Chickasaw Plum Damson Plum Japanese Plum Nectarine Peach Plum Plumcot Prune Sweet and Tart Cherry	American Plum Borer Apple Maggot (Adult) Black Cherry Aphid Cherry Fruit Fly species (Adult) Codling Moth Green Fruitworm Japanese Beetle June Beetle Leafhopper species Leafroller species Oriental Fruit Moth Peach Twig Borer Peachtree Borer species Pear Sawfly Periodical Cicada Plant Bug species Plum Curculio Rose Chafer Stink Bug species Tent Caterpillar species Thrips species	0.02 - 0.04	2.56 - 5.12	

Remarks

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold and IPM recommendations.
- Apply with ground or air equipment using sufficient water to obtain full coverage of the foliage or target area. When applying by air, apply a minimum of 5 gals. of water/per acre, but use higher volumes as appropriate for thorough coverage.
- Do not apply within 14 days of harvest.
- **Do not** apply more than 0.2 lb. a.i. (25.6 fl. oz. or 1.6 pts. of product) per acre per year. **Do not** apply more than 0.16 lb. a.i. (20.48 fl. oz. or 1.28 pts. of product) per acre per year post bloom.

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Сгор	Target Pest	Rate	
		Ib. a.i./A	fl. oz./A
SUGARCANE			
	Mexican Rice Borer ¹ Pygmy Mole Cricket Rice Stalk Borer ¹ Sugarcane Aphid ³ Sugarcane Beetle (Adult) ² Sugarcane Borer ¹ West Indian Cranefly Yellow Sugarcane Aphid ³	0.025 – 0.04	3.20 – 5.12

Remarks

- Apply as required by scouting, usually at intervals of 7 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold.
- Apply with ground or air equipment using sufficient water to obtain full coverage of the foliage or target area. When applying by air, apply a minimum of 2 gals. of water per acre.
- Do not apply within 21 days of harvest. •
- Do not apply more than 0.16 lb. a.i. (20.48 fl. oz. or 1.28 pts. of product) per acre per season. •

¹For control before the larva bores into the plant stalk. ²Suppression only of beetles active above ground.

³See **Resistance** statement under **General Directions for Use**.

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		Rate	
Сгор	Target Pests	lb. a.i./A	fl. oz./A
UNFLOWER	· · · · · · · · · · · · · · · · · · ·		
	Cutworm species Sunflower Beetle	0.015 – 0.025	1.92 – 3.20
	Banded Sunflower Moth Fall Armyworm ¹ Grasshopper species Head-Clipper Weevil (Adult) Japanese Beetle (Adult) Leafhopper species Meadow Spittlebug Painted Lady (Thistle) Caterpillar Seed Weevil (Adult) Spotted Cabbage Looper Stem Weevil (Adult) Stink Bug species Sunflower Maggot (Adult) Sunflower Moth Woollybear Caterpillar	0.02 - 0.03	2.56 – 3.84
	Beet Armyworm ^{2,3} Spider Mite species ²	0.03	3.84

Remarks

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water to obtain full coverage of sunflower heads and/or foliage. When applying by air, apply in a minimum of 2 gals. of water per acre.
- Do not apply within 45 days of harvest.
- **Do not** apply more than 0.12 lb. a.i. (15.36 fl. oz. or 0.96 pts. of product) per acre per season. **Do not** apply more than 0.09 lb. a.i. (11.52 fl. oz. or 0.72 pts. of product) per acre per season after bloom initiation.
- **Do not** apply as an ultra-low volume (ULV) spray.

¹Use higher rates for large larvae.

²Suppression only.

³See **Resistance** statement under **General Directions for Use**.

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	Target Pests	Rate	
Сгор		lb. a.i./A	fl. oz./A
OBACCO			
	Armyworm species ¹ Blister Beetle species Cabbage Looper Corn Earworm Cucumber Beetle species (Adult) Cutworm species Grasshopper species Japanese Beetle (Adult) Katydid species ³ Potato Tuberworm Salt Marsh Caterpillar Stinkbug species ^{2,3} Tobacco Aphid species ^{2,3} Tobacco Flea Beetle (Adult) Tobacco Flea Beetle (Adult) Tobacco Thrips species ² Tomato Hornworm Tree Cricket species Vegetable Weevil (Adult) Webworm species	0.015 – 0.03	1.92 – 3.84

Remarks

- Apply as required by scouting, usually at intervals of 7 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold.
- Apply with ground or air equipment using sufficient water to obtain full coverage of the foliage. When applying by air, apply in a minimum of 2 gals. of water per acre.
- Do not apply within 40 days of harvest.
- Do not apply more than 0.09 lb. a.i. (11.52 fl. oz. or 0.72 pts. of product) per acre per year.

¹For control of first and second instars only.
 ²Suppression only.
 ³See **Resistance** statement under **General Directions for Use.**

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	Target Pests	Rate	
Crop		lb. a.i./A	fl. oz./A
TREE NUTS			
Almond Beech Nut Brazil Nut Butternut Cashew Chestnut Chinquapin Filbert (Hazlenut) Hickory Nut Macadamia Nut (Bush Nut) Pistachio Walnut, Black Walnut, English (Persian)	Ants Chinch Bug Codling Moth Filbertworm Leaffooted Bug Leafroller species Navel Orangeworm Peach Twig Borer Plant Bug species Stink Bug species Walnut Aphid Walnut Husk Fly species (Adult)	0.02 – 0.04	2.56 – 5.12
Pecan	Hickory Shuckworm Pecan Aphid species Pecan Casebearer species Pecan Phylloxera species Pecan Spittlebug Pecan Weevil Stink Bug species	0.02 – 0.04	2.56 – 5.12

Remarks

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold.
- Apply with ground or air equipment using sufficient water to obtain full coverage of the foliage or target area. When applying by air, apply in a minimum of 5 gals. of water/per acre, but use higher rates as appropriate for thorough coverage.
- Do not apply within 14 days of harvest.
- **Do not** apply more than 0.16 lb. a.i. (20.48 fl. oz. or 1.28 pts. of product) per acre per year. **Do not** apply more than 0.12 lb. a.i. (15.36 fl. oz. or 0.96 pts. of product) per acre per year post bloom.

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		Rate	
Сгор	Target Pests	lb. a.i./A	fl. oz./A
TUBEROUS AND CORM VEGETABLES (P Related)	otato, Sweet Potato, Yams and		
Arracacha Arrowroot Artichoke (Chinese and Jerusalem only) Canna (edible) Cassava (bitter and sweet) Chayote (root) Chufa Dasheen	Cutworm species Leafhopper species Saltmarsh Caterpillar Sweet Potato Hornworm Woolybear Caterpillar species Aphid species ¹ Armyworm species ¹	0.015-0.025 0.02-0.03	1.92-3.20
Ginger Leren Potato Sweet Potato Tanier Turmeric Yam (bean and true)	Blister Beetle species Colorado Potato Beetle ¹ Corn Earworm Cricket species Cucumber Beetle species (adults) European Corn Borer Flea Beetle species (adults) Grasshopper species Looper species ¹ Lygus Bug species ¹ Plant Bug species Potato Psyllid Potato Tuberworm Stink Bug species Sweet Potato Leaf Beetle (adults) Sweet Potato Vine Borer Thrips species ^{1, 2} Tortoise Beetle species Webworm species		
	Weevil species (adults) Leafminer species ^{1, 3} Whitefly species ^{1, 3} Spider Mite species ³	0.03	3.84

Remarks:

- Apply as required by scouting, usually at intervals of 7 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of all above ground plant parts. When applying by air, apply in a minimum of 2 gal. total solution per acre. When applying by ground, a minimum of 10 gal. total solution per acre is recommended.
- Use higher application volumes and/or rates when foliage is dense, pest populations are high, larvae are large, weather conditions are adverse and/or as plant size increases. Use higher rates for longer residual.
- Insects that bore or tunnel into leaves, vines, stems, tubers or corms must be controlled before penetration. Only exposed insects (larvae and/or adults) can be controlled with foliar applications of Warrior Insecticide with Zeon TechnologyLamcap.
- Do not apply more than 0.12 lb. a.i. (15.36 fl. oz. or 0.96 pts. of product) per acre per season. Do not apply within 7 days of harvest.

¹See Resistance statement under General Directions for Use.

²Does not include Western Flower Thrips.

³Suppression only.

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		Ra	ite	
Сгор	Target Pests	lb. a.i./A	fl. oz./A	
CONIFER AND DECIDU	OUS TREES			
Plantations and Nurseries	Bagworm Balsam Twig Aphid Balsam Wooly Aphid Birch Leafminer Black Pine Weevil Elm Leaf Beetle European Elm Bark Beetle Gypsy Moth Japanese Beetle June Beetle species Leaf Beetle species Leaf Beetle species Leafroller species May Beetle species May Beetle species ¹ Pales Weevil Pine Chafer Pine Colaspis Beetle Pine Conelet Bug Pine Leaf Chermid Pine Needle Scale Pine Sawfly species Pine Tip Moth species Pine Tortoise Scale Pine Weevil species Source Budworm Tent Caterpillar species Tussock Moth species Webworm species	0.02 - 0.04	2.56 – 5.12	

Remarks

- To control exposed foliage, flower, cone, seed and bark feeding insects, apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground equipment using sufficient water to obtain full coverage of target site. When applying by air, apply a minimum of 2 gals. of water per acre.
- Do not apply more than 0.24 lb. a.i. (30.72 fl. oz. or 1.92 pts. of product) per acre per year.

¹Suppression only.

		Rate	
Crop	Target Pest	lb. a.i./A	fl.oz./A
CONIFER AND DEC			
Seed Orchards	Coneworm species Seed Bug species Thrips species	See Remarks	See Remarks

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Remarks

- For high volume sprayers, dilute 5.12 fl. oz. per 100 gals. of water and apply 5-10 gals. of finished spray per tree.
- For low volume sprayers, dilute 20 fl. oz. per 100 gals. of water and apply 100 gals. of finished spray/A.
- For aerial applications, apply 15 fl. oz. per acre in a minimum of 10 gals. finish spray per acre.
- Do not apply more than 0.5 lb. a.i. (64 fl. oz. or 4 pts. of product) per acre per year.

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			Rates	
Crop	Target Pest	lb. a.i./A	fl. oz./A	
NON-CROPLAND (EXC	LUDING PUBLIC LAND)			
	See Crop Outlets on this Warrior Insecticide with Zeon TechnologyLamcap label for target pest and rates.	See Crop Outlets	See Crop Outlets	

Remarks

- Spray non-cropland adjacent to agricultural areas to control migratory insects, which may threaten crops.
- Follow **General Use Directions**, rates and spray recommendations found elsewhere in this label for the adjacent crop outlet and target pests.
- Use highest labeled rates for dense/large foliage, high insect populations and larger larval stages.
- Repeat as necessary to maintain control.

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- Do not exceed 0.2 lb. a.i. (25.6 fl. oz. or 1.6 pts. of product) per acre per year.
- Do not graze livestock in treated areas.

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		Rates		
Crop	Target Pest	lb. a.i./A	fl. oz./A	
Non-Bearing Citrus Orcha	rds			
Calamondin Citron Citrus Hybrids Grapefruit Kumquat Lemon Lime Mandarin Orange (sweet & sour) Pummelo Satsuma mandarin Tangerine Uniq Fruit Including all cultivars and/or hybrids of these	Asian Citrus Psyllid	0.03 – 0.04 lb. a.i./A	3.84 – 5.12 fl. oz./A	

Remarks

- Apply as required by scouting. Timing and frequency of applications should be based upon insects reaching locally determined economic thresholds and IPM recommendations.
- Apply with ground or air equipment using sufficient water to obtain full coverage of the foliage or target area. When applying by air, apply in a minimum of 2 gals. of water per acre, but use higher volumes as appropriate for thorough coverage.
- 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.

Specfic Use Restrictions

- Apply to non-bearing citrus trees only to within 1 year of harvest.
- Note: To avoid possible illegal residues, do not apply to citrus that will bear harvestable fruit within 12 months.
- Do not apply more than 0.24 lb. a.i. (30.72 fl. oz. or 1.92 pts. of product) per acre per year.
- Not for use in citrus nurseries.

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Conversion Ch	art		
lb. a.i./A	fl. oz./A	pts./A	Treated Acres/gal.
0.015	1.92	0.12	66
0.02	2.56	0.16	50

0.20

0.24

0.32

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STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

3.20

3.84

5.12

Pesticide Storage

0.025

0.03

0.04

Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with sand, earth, or synthetic absorbent. Remove to chemical waste area. DO NOT ALLOW PRODUCT TO FREEZE.

Pesticide Disposal

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Handling [less than 5 gallons]

Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents 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 and disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Container Handling [Bulk/Mini-bulk]

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Refillable container. Refill this container with pesticide only. Do not use 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 container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

Warrior Insecticide with Zeon TechnologyLamcap, the Syngenta logo and the CP

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For non-emergency (e.g. current product information) call Syngenta Crop Protection at 1-800-334-9481.

Manufactured for: Syngenta Crop Protection, Inc. P.O. Box 18300 Greensboro, North Carolina 27419-8300

SCP 1112-M(Notif Lamcap)

War Zeon 1112A-M(Notif Lamcap)marked-lg-9-7-2010

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RESTRICTED USE PESTICIDE DUE TO TOXICITY TO FISH AND AQUATIC ORGANISMS

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.

Warrior Insecticide with Zeon Technology®Lamcap™

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	Group	3	Insecticide
Active Ingredient:			
Lambda-cyhalothrin ¹			
$[1\alpha(S^*), 3\alpha(Z)]$ -(±)-cyano-(3-phenoxypheny	yl)methyl-		
3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-	•		
dimethylcyclopropanecarboxylate			11.4%
Other Ingredients:			88.6%
Total:			100.0%

Warrior Insecticide with Zeon TechnologyLamcap contains 1 lb. of active ingredient per gal. and is a capsule suspension.

¹Synthetic pyrethroid

KEEP OUT OF REACH OF CHILDREN.

WARNING/AVISO

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

See additional precautionary statements and directions for use in booklet.

EPA Reg. No. 100-1112 EPA Est. XXXX

SCP 1112-M(Notif Lamcap) (1 gal.)

Net Contents

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

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WARNING/AVISO

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

Skin exposure may also result in a sensation described as a tingling, itching, burning, or prickly feeling. Onset may occur immediately to 4 hrs. after exposure and may last 2-30 hrs., without damage. Wash exposed areas once with soap and water. Relief from the skin sensation may be obtained by applying an oil-based cream.

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FIRST AID			
If swallowed	 Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. 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. 		
lf 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. 		
lf on skin or clothing	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. 		
lf inhaled	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. 		
Have the product doctor, or going for	container or label with you when calling a poison control center or or treatment.		
For 24	HOT LINE NUMBER 4 Hour Medical Emergency Assistance (Human or Animal) mical Emergency Assistance (Spill, Leak, Fire, or Accident), Call		
	1-800-888-8372		

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Environmental Hazards

This pesticide is extremely toxic to fish and aquatic organisms and toxic to wildlife.

For terrestrial uses: 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 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 disposing of equipment washwater.

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.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage

Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with sand, earth, or synthetic absorbent. Remove to chemical waste area. **DO NOT ALLOW PRODUCT TO FREEZE.**

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Pesticide Disposal

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Handling

Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents 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 and disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

Refer to chemigation directions in booklet.

Warrior Insecticide with Zeon Technology®Lamcap and the Syngenta logo are trademarks of a Syngenta Group Company Viton[®] is a registered trademark of E.I. DuPont de Nemours and Company ©2010 Syngenta

Manufactured for: Syngenta Crop Protection, Inc. P.O. Box 18300 Greensboro, North Carolina 27419-8300

SCP 1112-M(Notif Lamcap) (1 gal.)

WAR Zeon1112A-M(Notif Lamcap)marked-- Ig -9-7-2010

RESTRICTED USE PESTICIDE DUE TO TOXICITY TO FISH AND AQUATIC ORGANISMS

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.

Warrior Insecticide with Zeon Technology®Lamcap™

	Group	3	Insecticide
Active Ingredient:			
Lambda-cyhalothrin ¹			
$[1\alpha(S^*), 3\alpha(Z)]$ -(±)-cyano-(3-phenoxypheny	l)methyl-		
3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-			
dimethylcyclopropanecarboxylate			
Other Ingredients:			88.6%
Total:			100.0%

Warrior Insecticide with Zeon TechnologyLamcap contains 1 lb. of active ingredient per gal. and is a capsule suspension.

¹Synthetic pyrethroid

KEEP OUT OF REACH OF CHILDREN.

WARNING/AVISO

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

See additional precautionary statements and directions for use in booklet.

EPA Reg. No. 100-1112 EPA Est. XXXX Product of XXXXX Formulated in the USA Product ID. XXXXX

SCP 1112-M(Notif Lamcap) (15 gal., mini-bulk, bulk)

____gallons Net Contents

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

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WARNING/AVISO

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

Skin exposure may also result in a sensation described as a tingling, itching, burning, or prickly feeling. Onset may occur immediately to 4 hrs. after exposure and may last 2-30 hrs., without damage. Wash exposed areas once with soap and water. Relief from the skin sensation may be obtained by applying an oil-based cream.

	FIRST AID
If swallowed	 Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. 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.
lf on skin or clothing	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
lf inhaled	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
Have the product doctor, or going	t container or label with you when calling a poison control center or for treatment.

HOT LINE NUMBER For 24 Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-888-8372

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Environmental Hazards

This pesticide is extremely toxic to fish and aquatic organisms and toxic to wildlife.

For terrestrial uses: 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 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 disposing of equipment washwater.

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.

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.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, Inc. or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and, (2) Buyer and User assume the risk of any such use. To the extent permitted by applicable law, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL. To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

DIRECTIONS FOR USE

RESTRICTED USE PESTICIDE

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

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage

Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with sand, earth, or synthetic absorbent. Remove to chemical waste area. **DO NOT ALLOW PRODUCT TO FREEZE.**

Pesticide Disposal

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

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Container Handling

Refillable container. Refill this container with pesticide only. Do not use 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 container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

Refer to chemigation directions in booklet.

Warrior Insecticide with Zeon TechnologyLamcap, the Syngenta logo and the CP

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Manufactured for: Syngenta Crop Protection, Inc. P.O. Box 18300 Greensboro, North Carolina 27419-8300

SCP 1112-M(Notif Lamcap) (15 gal., mini-bulk, bulk)

WAR Zeon1112A-M(Notif Lamcap)marked- Ig --9-7-2010