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EPA Form 8570-1 (Rev. 3-94) Previous editions are obsolete.

# **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 Insecticide

Active Ingredient: Lambda-cyhalothrin [1a(S*),3a(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 Technology contains 1 lb. of active ingredient per gal. and is a capsule suspension.

# 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 the United Kingdom Formulated in USA

SCP 1112-M(Notif-Pest)

Net Contents

DEC 1 7 2003

	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.
	<ul> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> </ul>
	<ul> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
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 fo	
	HOT LINE NUMBER
	Hour Medical Emergency Assistance (Human or Animal)
or Chen	nical Emergency Assistance (Spill, Leak, Fire, or Accident), Call
	1-800-888-8372
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# **PRECAUTIONARY STATEMENTS**

## Hazards to Humans and Domestic Animals

## WARNING/AVISO

May be fatal if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. May cause allergic skin reactions. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

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.

# Personal Protective Equipment (PPE)

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.

# Applian to an other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, or Viton ≥ 14 mils
- Groas plus socks
- Protective eyewear

Discare clocking 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 Salety Recommendations

Users cherdd:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## **Environmental Hazards**

This pesticide is extremely toxic to fish and aquatic organisms and toxic to wildlife. Do not apply 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 wash water.

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

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# CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warraniy 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 should be followed carefully. It is impossible to eliminate ail risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other buruencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, Inc. or Seller. All such risks shall be assumed by Buyer and User, and 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 tisks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and Buyer and User assume the risk of any such use. SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall SYNGENTA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. 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 vic ation of Federal law to use this product in a manner inconsistent with its labeling.

## SHAKE WELL BEFORE USING.

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 consult rements 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, such as barrier laminate, butyl rubber, nitrile rubber, or Viton  $\ge 14$  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.

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## STORAGE AND DISPOSAL

## Prohibitions

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

## 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.

## **Container Disposal**

Triple rinse (or equivalent); then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

## For Bulk, Mini-Bulk, and EZ Handler® Disposal

Return container to Syngenta for reuse with seal intact and in salable condition.

## **Container Precautions**

Before refilling RETURNABLE CONTAINERS, inspect thoroughly for damage such as cracks, punctures, bulges, dents, abrasions, and damaged or worn threads on closure devices.

**REFILL ONLY WITH WARRIOR INSECTICIDE WITH ZEON TECHNOLOGY.** The contents of RETURNABLE CONTAINERS cannot be completely removed by cleaning. Refilling with materials other than Warrior Insecticide with Zeon Technology will result in contamination and may weaken container.

After filling and before transporting, check for leaks.

Do not refill or transport damaged or leaking container.

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

# **GENERAL DIRECTIONS FOR USE**

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./A by air or 10 gals./A 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 Technology may be applied before, during, or after planting. For soil incorporated applications, use higher rates for improved control.

# RESISTANCE

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

Observe the Following Precautions When Spraying in the Vicinity of Aquatic Areas Such as Lakes; Reservoirs; Rivers; Permanent Streams, Marshes or Natural Ponds; Estuaries and Commercial Fish Farm Ponds.

- Do not apply by ground within 25 ft., or by air within 150 ft. of lakes, reservoirs, rivers, permanent streams, marshes, pot holes, or natural ponds, estuaries, and commercial fish farm ponds. Increase the buffer zone to 450 ft. when ultra-low volume (ULV) application is made.
- All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers.
- For aerial applications, the spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used and must not exceed 75% of wing span or rotor diameter.
- Use the largest droplet size consistent with good pest control. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.

- Spray should be released at the lowest height consistent with pest control and flight safety. Applications more than 10 ft. above the crop canopy should be avoided.
- Make aerial or ground applications when the wind velocity favors on-target product deposition (approximately 3–10 mph). Do not apply when wind velocity exceeds 15 mph. Avoid applications when wind gusts approach 15 mph.
- Risk of exposure to aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.
- Do not cultivate within 10 ft. of the aquatic area so as to allow growth of a vegetative filter strip.
- Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift to aquatic areas. Avoid spraying during conditions of low humidity and/or high temperature.
- Do not make aerial or ground applications during 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.

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.

# TANK MIX APPLICATION

When tank mixing with any other agricultural products, always add Warrior Insecticide with Zeon Technology last. Fill the tank with one half to two thirds 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 Technology 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 Technology has good flexibility for tank mixing with other agricultural products, a jar test for physical compatibility is recommended for untried mixtures using proper ratios and mixing sequences of all ingredients to be included in the mixture.

Warrior Insecticide with Zeon Technology is an aqueous based formulation. It is recommended that no type of non-emulsifiable oils be used in combination with Warrior Insecticide with Zeon Technology. 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 Technology on the target crop through proven field trials and through university and extension recommendations.

In addition, the following may be used as diluents:

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 Technology as diluents or adjuvants:

**\_**- ^

Non-emulsifiable oils Diesel Fuel Straight Mineral Oil

## CHEMIGATION

## Sprinkler Irrigation Application

Apply Warrior Insecticide with Zeon Technology 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 Warrior Insecticide with Zeon Technology 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 Technology 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 Technology 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 Technology 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**

- 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.
- 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.
- 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 meadrawn from the supply tank when the irrigation system is either at cmatically or manually shut down.
- 1. The system must contain functional interlocking controls to automatically shut 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 materials that are compatible with pesticides and capable of being fitted is a system interlock.
- L. Denot apply when wind speed favors drift beyond the area intended for creatment.
- M. Lie not apply through chemigation systems connected to public water systems.

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SPEC DIRECTIONS

## AGRICULTURAL USES

		Ra	te
	Target Pests	lb. a.i./A	fl. oz./A
ALFAL.	CFALFA GROWN FOR SEED		· · · · · · · · · · · · · · · · · · ·
	Alfalfa Caterpillar Cutworm species Army Cutworm Green Cloverworm Looper species Velvetbean Caterpillar Webworm species Leafhopper species Threecornered Alfalfa Hopper	0.0150.025	1.92-3.20
	Armyworm Com Earworm <sup>1</sup> Western Yellow-striped Armyworm Yellow-striped Armyworm Alfalfa Weevil Bean Leaf Beetle (Adult) . Blister Beetle species Clover Leaf Weevil species Clover Root Borer (Adult) Clover Root Curculio species (Adult) Clover Stem Borer (Adult) Cowpea Curculio (Adult) Cowpea Weevil (Adult) Cowpea Weevil (Adult) Cucumber Beetle species (Adult) Egyptian Alfalfa Weevil Grape Colaspis (Adult) Green June Beetle (Adult) Japanese Beetle (Adult) Mexican Bean Beetle Pea Weevil (Adult) Sweet Clover Weevil (Adult) Whitefringed Beetle species (Adult) Meadow Spittlebug Plant Bug species including Lygus species Stink Bug species Alfalfa Seed Chalcid (Adult) Blue Alfalfa Aphid Cowpea Aphid Spotted Alfalfa Aphid Thrips species <sup>4</sup> Grasshopper species	9	2.56-3.84
	Beet Armyworm <sup>1,3</sup> Blotch Leafminer <sup>3</sup> Spider Mites <sup>2</sup>	0.03	3.84

- Apply only to fields planted to pure stands of alfalfa.
- 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. /A by air or 10 gals /A by ground. When foliage is dense and/or pest populations are high 5-10 gals /A by air or 20 gals /A 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. (0.24 pts.)/A per cutting.
- Do not apply more than 0.12 lb. a.i. (0.96 pts.)/A per season. .
- Do not apply within 1 day of harvest for forage or within 7 days of harvest for hav.
- <sup>1</sup> Use higher rates for large larvae.
- <sup>2</sup> Suppression only.
   <sup>3</sup> See resistance statement under General Directions for Use.
- <sup>4</sup>Does not include Western Flower Thrips.

CANOL		Rate		
	Target Pests	tb. a.i./A	fl. oz./A	
	Cutworm species Looper species Armyworm species Diamondback Moth Flea Beetle Cabbage Seedpod Weevil Lygus Bug Grasshoppers	0.015–0.03	1.92–3.84	
	Cabbage Aphid	0.03	3.84	

Ap<sub>p</sub> a constrained by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon a cost populations reaching locally determined economic threshold. Ap<sub>1</sub> = the provided or air equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply a

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- mire: a day 2 gals, of water/A. Do not get y within 7 days of harvest. Do not get y more than 0.09 lb. a.i. (0.72 pts.)/A per year.
- .

		R	ate
· • •	Target Pest	lb. a.i./A	fl.oz./A
CEREAL			
Com (At F Field Com Popcom Seed Com Sweet Com	Wireworm species Cutworm species Seedcorn Maggot White Grub species Corn Rootworm Larvae Western Northern Southern Mexican	0.005 lbs. a.i. per 1000 feet of row <sup>2</sup>	0.66 fl. oz, per 1000 feet of row <sup>2</sup>
	Seedcorn Beetle Lesser Cornstalk Borer Red Imported Fire Ant'		

- collections Apply at planting as a 5-7 inch T-band sprayed across the open seed furrow between the furrow Bande: .
- openers in the press wheels or as a band application behind the press wheel. In-Further applications Apply into the seed furrow through spray nozzles or microtubes, behind the planter furrow openers and in factor of the press wheel.
- Apply a mean of 3 gals, finished spray/A.
- Do not increase or graze livestock or cut treated crops for feed within 21 days of at plant application.
- Do not and unavera than 0.09 lb. a.i. (0.72 pts.)/A per crop at plant.
- For field in percent, and seed corn do not apply more than 0.12 lb. a.i./A per crop from at plant and foliar applications. For . sweet correspond apply more than 0.48 lb. a.i./A per crop from at plant and foliar applications.

Suppression .....

Lbs. a.i. and	z A of Warrior Inse	cticide With Zeon	Technology Applied	at 0.66 fl. oz./1000	ft. of Row for Vario	us Row Spacings
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
Fl. oz./A	8.6	9.1	9.6	10.1	10.8	11.5

		Ra	te
Сгор	Target Pests	lb. a.i./A	fi. oz./A
CEREAL GRAINS			
Corn (Foliar) Field Corn Popcorn Seed Corn	Cutworm species Western Bean Cutworm <sup>1</sup> Corn Earworm <sup>1</sup> Green Cloverworm Meadow Spittlebug	0.015–0.025	1.92–3.20
	Tobacco Budworm <sup>14</sup> European Corn Borer <sup>1</sup> Southwestem Corn Borer <sup>1</sup> Stalk Borer <sup>1</sup> Hop Vine Borer <sup>1</sup> Lesser Cornstalk Borer Armyworm <sup>2</sup> Fall Armyworm <sup>2</sup> Yellow-striped Armyworm <sup>2</sup> Webworm species Flea Beetle species Westem Corn Rootworm Beetle (Adult) Northern Corn Rootworm Beetle (Adult) Northern Corn Rootworm Beetle (Adult) Southern Corn Rootworm Beetle (Adult) Mexican Corn Rootworm Beetle (Adult) Bean Leaf Beetle Cereal Leaf Beetle Cereal Leaf Beetle Japanese Beetle (Adult) Seedcorn Beetle Stink Bug species Grasshopper species Corn Leaf Aphid <sup>3</sup>	0.02-0.03	2.56–3.84

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/A.
- For chinch bug control, begin applications when bugs migrate from small grains or grass weeds to small corn. Direct spray to the base of com plants. Repeat applications at 3-5-day intervals if needed. Warrior Insecticide with Zeon Technology 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 3.84 fl. oz./A (0.03 lb. a.i./A).
- 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 com fodder or silage to meat or dairy animals within 21 days after last treatment.
- Do not apply more than 0.12 lb. a.i. (0.96 pts.)/A per crop from at plant and foliar applications.

English Grain Aphid<sup>3</sup>

Mexican rice Borer'

Southern Corn Leaf Beetle<sup>3</sup>

Rice Stalk Borer<sup>1</sup> Sugarcane Borer<sup>1</sup> Beet Armyworm

Chinch Bug Green Bug

Do not apply more than 0.06 lb. a.i. (0.48 pts.) after silk initiation. Do not apply more than 0.03 lb. a.i. (0.24 pts.) after corn has reached the milk stage (yellow kernels with milky fluid).

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		Ra	te
:	Target Pests	lb. a.i./A	fl. oz./A
CEREAL GR. 43			
Sweet Corr (Felinr)	Corn Earworm Armyworm <sup>1</sup> Fall Armyworm <sup>1</sup> Southern Armyworm <sup>1</sup> Beet Armyworm <sup>1,3</sup> Yellow-Striped Armyworm <sup>1</sup> Cutworm species Western Bean Cutworm Webworm species European Corn Borer Southwestern Corn Borer Common Cornstalk Borer Western Corn Rootworm Beetle (Adult) Northern Corn Rootworm Beetle (Adult) Northern Corn Rootworm Beetle (Adult) Southern Corn Rootworm Beetle (Adult) Mexican Corn Rootworm Beetle (Adult) Japanese Beetle (Adult) Sap Beetle (Adult) Flea Beetle species Tarnished Plant Bug Stink Bug species Chinch Bug Aster Leafhopper Grasshopper species <sup>2,3</sup> Spider Mite species <sup>2</sup>	0.02-0.03	2.56–3.84
	Corn Silkfly (Adult) <sup>2</sup>	0.03	3.84

#### Remarks

- Apply the required by scouting, or locally prescribed corn growth stages, usually at intervals of 4 or more days. Timing and . freque: 2 cl applications should be based upon insect populations reaching locally determined economic thresholds or other locally a commended methods and should be targeted for control before insects enter the stalk or ear.
- Apply web ground or air equipment using sufficient water and application methods to obtain full coverage of foliage and ears (if present Athen applying by air, apply in a minimum of 2 gals. of water/A.
- For count of adult corn rootworm beetles (Diabrotica species) as part of an aerial applied corn rootworm control program use a minimum of 3.2 fl. oz./A (0.025 lb. a.i./A).
- Do not acrely 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 seatment. Do not feed treated com fodder or silage to meat or dairy animals within 21 days after last treatment.
- Do not apply more than 0.48 lb. a.i. (3.84 pts.)/A per crop from at plant and foliar applications. .

'Use higher mores for large larvae. <sup>2</sup>Suppression only.

<sup>3</sup>See resistance statement under General Directions for Use.

Сгор		Rate		
	Target Pests	lb. a.i./A	fl. oz./A	
CEREAL GRAINS				
Rice	True Armyworm Fall Armyworm Yellow-striped Armyworm Rice Water Weevil (Adult) Rice Stink Bug Chinch Bug Grasshopper species Leafhopper species Sharpshooter species Bird Cherry-Oat Aphid Yellow Sugarcane Aphid Green Bug Mexican Rice Borer <sup>1</sup> Rice Stalk Borer <sup>1</sup> Sugarcane Borer <sup>1</sup> European Com Borer <sup>1</sup> Rice Seed Midge	0.025-0.04	3.20–5.12	

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- 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 Technology 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)/A but ensure sufficient volume is used to provide adequate coverage. In
  addition, adding an emulsifiable crop oil (e.g., 1 pt./A) 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 Technology 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.
- Green bug is known to have many biotypes. Warrior Insecticide with Zeon Technology may only provide suppression. If
  satisfactory control is not achieved with the first application of Warrior Insecticide with Zeon Technology, a resistant biotype
  may be present. Use alternate chemistry for control.
- Do not release flood water within 7 days of an application.
- Do not apply more than 0.12 lb. a.i. (0.96 pts.)/A per season. Do not apply more than 0.08 lb. a.i. (0.64 pts.)/A within 28 days of harvest or more than 0.04 lb. a.i. (0.32 pts.)/A within 21 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.

<sup>1</sup> For control before the larvae bores into the plant stalk.

		Ra	te
OFDEAL OF MARC	Target Pests	lb. a.i./A	fl. oz./A
CEREAL GP AINS Sorghum (Grain)	Cutworm species Sorghum Midge	0.015-0.02	1,92–2.56
	Armyworm Beet Armyworm <sup>3</sup> Fall Armyworm <sup>1</sup> Yellow-striped Armyworm <sup>1</sup> Corn Earworm Webworm species European Corn Borer <sup>2</sup> Southwestern Corn Borer <sup>2</sup> Lesser Cornstalk Borer <sup>2</sup> Flea Beetle species Stink Bug species Grasshopper species	0.02–0.03	2.56–3.84
	Mexican Rice Borer <sup>2</sup> Rice Stalk Borer <sup>2</sup> Sugarcane Borer <sup>2</sup> Chinch Bug	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 intervals of populations reaching locally determined economic thresholds.
- Apply we algoand or air equipment using sufficient water and application methods to obtain full coverage of target location. When apply by air, apply in a minimum of 2 gals, of water/A.
- For some unidge 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 chintle bug control, begin applications when bugs migrate from small grains or grass weeds to small sorghum. Direct spray
  to the budget is sorghum plants. Repeat applications at 3-5-day intervals if needed. Warrior Insecticide with Zeon Technology
  may oblighter appress heavy infestations and/or subsequent migrations.
- Do not alloly more than 0.08 lb. a.i. (0.64 pts.)/A per season.
- Do not an my more than 0.06 lb. a.i. (0.48 pts.)/A per season after crop emergence.
- Do not and y more than 0.02 lb. a.i. (0.16 pts.)/A per season once crop is in soft dough stage.
- Do not againy within 30 days of harvest.

'Use higher rates for large larvae.

<sup>2</sup>For control harve the larve bores into the plant stalk.

<sup>3</sup>See resistance statement under General Directions for Use.

		Ra	te
	Target Pests	lb. a.i./A	fl. oz./A
CEREAL I HIC			
Vheat Vheat Ha riticale	Cutworm species Army Cutworm	0.0150.025	1.92–3.20
	Armyworm Fall Armyworm Yellow-striped Armyworm Flea Beette species Cereal Leaf Beette Stink Bug species English Grain Aphid <sup>1</sup> Russian Wheat Aphid <sup>1</sup> Bird Cherry-Oat Aphid <sup>1</sup>	0.02-0.03	2.56–3.84
	Grasshopper species Hessian Fly <sup>4</sup> Orange Blossom Wheat Midge Grass Sawfly	0.025-0.03	3.20-3.84
	Chinch Bug Greenbug <sup>1,3</sup> Corn Leaf Aphid <sup>2</sup> Mite species <sup>2</sup>	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/A.
- For chinch bug control, repeat applications at 3-5-day intervals if needed. Warrior Insecticide with Zeon Technology may only suppress heavy infestations and/or migrations.
- Greenbing is known to have many biotypes. Warrior Insecticide with Zeon Technology 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 acely more than 0.06 lb. a.i. (0.48 pts.)/A per season.

<sup>1</sup>Best control is obtained before insects begin to roll leaves. Once wheat has started to boot, Warrior Insecticide with Zeon Technology may provide suppression only. Higher rates and increased coverage will be necessary. <sup>2</sup>Suppression only.

See resistance statement under General Directions for Use.

<sup>4</sup>Make applications when adults emerge.

	Target Pests	Rate	
Сгор		lb. a.i./A	fl. oz./A
COLE CROPS(Head and Ster	n Brassica)		
Broccoli Brussels Sprouts Cabbage Cavalo Broccoli Cauliflower Chinese Broccoli (gai lon) Chinese Cabbage (napa) Chinese Mustard	Alfalfa Looper Cabbage Looper Imported Cabbageworm Southern Cabbageworm Cutworm species Cabbage Webworm	0.015–0.025	1.92–3.20
Cabbage (gai choy) Kohirabi	Diamondback Moth <sup>3</sup> Armyworm Beet Armyworm <sup>1,3</sup> Fall Armyworm <sup>1</sup> Yellow-striped Armyworm Corn Earworm Flea Beetle species Japanese Beetle (Adult) Vegetable Weevil (Adult) Grasshopper species Leafhopper species Leafhopper species Plant Bug species Plant Bug species <sup>3</sup> Stink Bug species <sup>3</sup> Stink Bug species <sup>2</sup> Meadow Spittlebug Aphid species <sup>2,3</sup> Whitefly species <sup>2</sup>	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/A.
- Do not apply within 1 day of harvest.
- Do not apply more than 0.24 lb. a.i. (1.92 pts.)/A per season.

<sup>1</sup>For control of first and second instar only. <sup>2</sup>Suppression only. <sup>3</sup>See resistance statement under **General Directions for Use.** 

		Ra	ite
·	Target Pests	lb. a.i./A	fl. oz./A
OTTON			
	Cutworm species Tobacco Thrips Soybean Thrips	0.0150.02	1.92–2.56
	Lygus Bug species <sup>3</sup> Pink Bollworm Cabbage Looper Cotton Leafperforator Saltmarsh Caterpillar Cotton Leafworm Cotton Fleahopper	0.02–0.03	2.56–3.84
	Cotton Bollworm Tobacco Budworm <sup>3</sup> Boll Weevil Fall Armyworm Beet Armyworm <sup>1,3</sup> European Corn Borer Brown Stink Bug Green Stink Bug Southern Green Stink Bug Twospotted Spider Mite <sup>2</sup> Cotton Aphid <sup>2,3</sup> Bandedwing Whitefly <sup>2,3</sup> Sweetpotato Whitefly <sup>2,3</sup>	0.0250.04	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 periodations 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
  Technology may be mixed with once-refined vegetable oil and applied in a minimum of at least one qt. of finished spray/A.
- Under light collworm/budworm infestation levels, 0.02 lb. a.)./A may be applied in conjunction with intense field monitoring.
   For boil 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 Technology 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 1.6 pts. (0.2 lb. a.i.)/A 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 che growing season. Synthetic pyrethroid products include Ammo® Insecticide, Asana® XL Insecticide, Baythroid® Emulsifiable Pyrethroid Insecticide, Capture® Insecticide/Miticide, Danitol® 2.4 EC Spray Insecticide/Miticide, Decis® Insecticide, Fury™ Insecticide, Karate® Insecticide, Karate® Insecticide with Zeon™ Technology, Mustang® Insecticide, Scout X-TRA® Insecticide, Warrior® Insecticide and Warrior Insecticide with Zeon™ Technology.

<sup>1</sup>For control of first and second instar only. <sup>2</sup>Suppression only. <sup>3</sup>See resistance statement under General Directions for Use.

			te
د .	Target Pests	lb. a.i./A	fl. oz./A
FRUITIN	······································		
Tomato Tomatille Peppers ::u nonbell) Eggplan:	Cabbage Looper Cutworm species Hornworm species	0.015-0.025	1.92–3.20
Ground Constant Pepino	Tomato Fruitworm Tobacco Budworm <sup>3</sup> Tomato Pinworm Beet Armyworm <sup>1,3</sup> Southern Armyworm <sup>1</sup> Yellow-striped Armyworm <sup>1</sup> Fall Armyworm <sup>1</sup> European Corn Borer <sup>4</sup> Leafminer species <sup>2</sup> Colorado Potato Beetle <sup>3</sup> Flea Beetle species Grasshopper species Leafhopper species Leafhopper species Aphid species <sup>2,3</sup> Whitefly species <sup>2,3</sup> Whitefly species <sup>2,3</sup> Meadow Spittlebug Stink Bug species Plant Bug species Stalk Borer <sup>4</sup> Blister Beetle species Japanese Beetle (Adult) Pepper Weevil (Adult) <sup>2</sup> Vegetable Weevil (Adult) Tomato Psyllid <sup>2,3</sup> Spider Mite species <sup>2</sup> Thrips <sup>5</sup> Cucumber Beetle species (Adult)	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/A.
- Do not sorthy within 5 days of harvest.
- Do not haply more than 0.36 lb. a.i. (2.88 pts.)/A per season. ٠

<sup>1</sup>For control of first and second instar only.

<sup>2</sup>Suppression only. <sup>3</sup>See resistance statement under General Directions for Use.

<sup>4</sup>For control before the larva bores into the plant stalk or fruit. <sup>5</sup>Does not include: Western Flower Thrips.

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		Rai	e
Сгор	Target Pests	lb. a.i./A	fl. oz./A
EGUME VEGETABLES (	Beans and Peas)		
Edible Podded (Only)	Cutworm species	0.015-0.025	1.92-3.20
· • • • • •	Green Cloverworm		
Canavalia gladiata	Imported Cabbageworm		
– sword bean	Saltmarsh Caterpillar		
	Velvetleaf Caterpillar		
Canavalia ensiformis	Mexican Bean Beetle		
– jackbean			
	Com Earworm	0.02-0.03	2.56-3.84
Glycine max	Painted Lady Butterfly (Larva)		
<ul> <li>Soybean (immature</li> </ul>	European Com Borer		
seed)	Looper Species		
	Western Bean Cutworm		
Edible Podded, Succulent	Tobacco Budworm <sup>4</sup>		
Shelled or Dried Shelled	Armyworm <sup>2</sup>		
	Fall Armyworm <sup>2</sup>		
Phaseolus species –	Yellow-Striped Armyworm <sup>2</sup>		
includes: field, kidney,	Western Yellow–Striped Armyworm <sup>2</sup>		
lima, navy, pinto,	Bean Leafskeletonizer	·	
runner, snap, tepary	Webworm species		
and wax beans	Leaftier species		
	Alfalfa Caterpillar		
Vigna species –	Stalk Borer <sup>1</sup>		
includes: adzuki,	Cucumber Beetle species (Adult)		
asparagus, moth,	Corn Rootworm Beetle species (Adult)		
mung, rice, urd and	Flea Beetle species (Adult)		
yardlong beans, black-	Curculio and Weevil species' (foliage and pod		
eye pea, catjang,	feeding adults and larvae)		
Chinese longbean,	Blister Beetle species		
cowpea, Crowder pea,	Bean Leaf Beetle		
and Southern pea	Japanese Beetle (Adult)		
	Leafhopper species		
Pisum species –	Flea Hopper species		
includes: dwarf,	Three-Cornered Alfalfa Hopper		
edible-pod, English,	Meadow Spittlebug		
field, garden, green,	Stink Bug species		
snow and sugar snap	Plant Bug species Including Lygus species <sup>4</sup>		
peas	Grasshopper species		
	Thrips species <sup>4,5</sup>		
Cajanus cajan –	Aphid species <sup>4</sup>		
Pigeon pea			

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Rate	
lb, a.i./A	fl. oz./A
0.03	3.84

- 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/A.
- For edilate podded and succulent shelled legume vegetables, do not apply within 7 days of harvest.
- For dried chelled legume vegetables, do not apply within 21 days of harvest.
- Do not apply more than 0.12 lb .a.i. (0.96 pts.)/A per season.
- · For succident and dried shelled peas and beans, do not graze livestock in treated areas or harvest vines for forage or hay.

<sup>1</sup>For control before the larva bores into the plant stalk or pods. <sup>2</sup>Use higher rates for large larvae.

<sup>3</sup>For suppression only.

\*See resistance statement under General Directions for Use.

<sup>5</sup> Does not include Western Flower Thrips.

		Rai	le
	Target Pests	lb. a.i./A	fl. oz./A
LEGUME LETAI	BLES (SOYBEANS)		
Soybean	Corn Earworm Velvetbean Caterpillar Green Cloverworm Cabbage Looper Painted Lady (Thistle) Caterpillar Saltmarsh Caterpillar Woollybear Caterpillar Cutworm species Bean Leaf Beetle Mexican Bean Beetle Western Corn Rootworm Beetle (Adult) Northern Corn Rootworm Beetle (Adult) Southern Corn Rootworm Beetle (Adult) Mexican Corn Rootworm Beetle (Adult) Mexican Corn Rootworm Beetle (Adult) Three-Cornered Alfalfa Hopper Potato Leafhopper Thrips species <sup>5</sup> Soybean Aphid <sup>4</sup>	0.015-0.025	1.92–3.20
	Armyworm <sup>1</sup> Fall Armyworm <sup>1</sup> Yellow-striped Armyworm <sup>1</sup> Tobacco Budworm <sup>3</sup> Webworm species European Com Borer Silverspotted Skipper Japanese Beetle (Adult) Blister Beetle species Stink Bug species Plant Bug species Grasshopper species	0.025–0.03	3.20–3.84
	Beet Armyworm <sup>2,3</sup> Soybean Looper <sup>2,3</sup> Lesser Cornstalk Borer <sup>2</sup> Spider Mite species <sup>2</sup>	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.
- 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/A.
- For control of adult corn rootworm beetes (Diabrotica species) as part of an aerial applied corn rootworm control program use a minimum of 2.56 fl. oz./A (0.02 lb. a.i./A).
- Do not apply within 45 days of harvest. Do not apply more than 0.06 lb. a.i. (0.48 pts.)/A per season.

<sup>1</sup>Use higher rates for large larvae. <sup>2</sup>Suppression only.

<sup>3</sup>See resistance statement under General Directions for Use.

<sup>4</sup>Use lower rates for early season applications and/or lighter populations.

<sup>5</sup>Does not include WesternFlower Thrips.

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		Ra	te
Сгор	Target Pests	lb. a.i./A	fl. oz./A
TTUCE (HEAD AND	D LEAF)		
	Alfalfa Looper Cabbage Looper Imported Cabbageworm Cutworm species Saltmarsh Caterpillar Green Cloverworm	0.0150.025	1.92–3.20
·	Diamondback Moth <sup>3</sup> Armyworm Beet Armyworm <sup>1,3</sup> Fall Armyworm <sup>1</sup> Southern Armyworm Corn Earworm Tobacco Budworm <sup>3</sup> European Corn Borer Flea Beetle species Japanese Beetle (Adult) Vegetable Weevil (Adult) Vegetable Weevil (Adult) Grasshopper species Leafhopper species Plant Bug species including Lygus species <sup>3</sup> Stink Bug species <sup>2,3</sup> Whitefly species <sup>2,3</sup> Spider Mite species <sup>2</sup>	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/A.
- Do not apply within 1 day of harvest.
- Do not apply more than 0.3 lb. a.i. (2.4 pts.)/A per season.

<sup>1</sup>For control of first and second instar only. <sup>2</sup>Suppression only. <sup>3</sup>See resistance statement under **General Directions for Use**.

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		Ra	te
Ci	Target Pests	ib. a.i./A	fl. oz./A
ONION (BUL.) ID GARL	IC	······	
	Cutworm species Seedcorn Maggot (Adult) Onion Maggot (Adult) Leafminer species (Adult)	0.0150.025	1.92-3.20
	Armyworm species <sup>1</sup> Onion Thrips <sup>3</sup> Tobacco Thrips <sup>3</sup> Western Flower Thrips <sup>2,3</sup> Flower Thrips <sup>2,3</sup> Aphid species <sup>2</sup> Plant Bug species Stink Bug species	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 occulations 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 arr apply in a minimum of 2 gals, of water/A.
- 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 i 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. (1.92 pts.)/A per season.

'For control of the arst and second instar only.

<sup>2</sup>Suppression only.

<sup>3</sup>See resistance statement under General Directions for Use.

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		Rate	
ANUT	Target Pests	lb. a.i./A	fl. oz./A
	Cutworm species Green Cloverworm Velvetbean Caterpillar Red-necked Peanut Worm Potato Leafhopper Three Comered Alfalfa Hopper	0.015-0.025	1. <b>92</b> –3.20
	Com Earworm Fall Armyworm <sup>1</sup> Bean Leaf Beetle Southern Com Rootworm (Adult) Vegetable Weevil Whitefringed Beetle (Adult) Stink Bug species Tobacco Thrips Grasshopper species	0.02–0.03	2.56–3.84
	Beet Armyworm <sup>2,3</sup> Soybean Looper <sup>2,3</sup> Lesser Cornstalk Borer <sup>2</sup> Spider Mite species <sup>2</sup> Aphid species <sup>2</sup>	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 insact 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/A.
- Do not apply within 14 days of harvest. ٠
- Do not apply more than 0.12 lb. a.i. (0.96 pts.)/A per season. ٠

<sup>1</sup>Use higher races for large larvae. <sup>2</sup>Suppression only. <sup>3</sup>See resistance statement under General Directions for Use.

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Сгор		Rate	
	Target Pests	lb. a.i./A	fl. oz./A
POME FRUITS			
Apple Crabapple Loquat Mayhaw Oriental Pear Pear Quince	Leafroller species Omnivorous Leafroller Codling Moth Orange Tortrix Tufted Apple Budworm Oriental Fruit Moth Lesser Appleworm Green Fruitworm Tent Caterpillar species Webworm species Tentiform Leaf Miner species Apple Maggot (Adult) Cherry Fruit Fly species (Adult) Pear Sawfly Stink Bug species Leafhopper species Leafhopper species Plum Curculio Japanese Beetle Tree Borer species Plant Bug species Plant Bug species Periodical Cicada Apple Aphid Rosy Apple Aphid Spirea Aphid' Pear Psylla' San Jose Scale (fruit infestations only)	0.020.04	2.56-5.12

- 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. (1.6 pts.)/A per year. Do not apply more than 0.16 lb. a.i. (1.28 pts.)/A per year post bloom.

<sup>1</sup>Suppression only

		Rate	
2 m	Target Pests	lb. a.i./A	fl. oz./A
STONE Control G			
pricot	Leafroller species	0.02-0.04	2.56-5.12
weet and Turn Cherry	Peach Twig Borer		
ectarine	Oriental Fruit Moth		
each	Peachtree Borer species		
lum	Green Fruitworm		
hickasaw 🕾 🕫	Tent Caterpillar species		
amson Plant	Codling Moth		
apanese filu n	American Plum Borer		
lumcot	Apple Maggot (Adult)		
rune	Cherry Fruit Fly species (Adult)		
	Pear Sawfly		
	Plum Curculio		
	Rose Chafer		
	Japanese Beetle		
	June Beetle		
	Plant Bug species		
	Stink Bug species		
	Leafhopper species		
	Thrips species		
	Periodical Cicada		
	Black Cherry Aphid		

#### 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. (1.6 pts.)/A per year. Do not apply more than 0.16 lb. a.i. (1.28 pts.)/A per year post bloom.

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	Target Pest	Rate	
$Cr \circ p$		lb. a.i./A	fl. oz./A
SUGARCANE			
	Mexican Rice Borer <sup>1</sup> Sugarcane Borer <sup>1</sup> Rice Stalk Borer <sup>1</sup> Sugarcane Beetle (Adult) <sup>2</sup> Sugarcane Aphid <sup>3</sup> Yellow Sugarcane Aphid <sup>3</sup> West Indian Cranefly Pygmy Mole Cricket	0.025–0.04	3.20-5.12

- 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/A.
- Do not apply within 21 days of harvest.
- Do not apply more than 0.16 lb. a.i. (1.28 pts.)/A per season. •

<sup>1</sup>For control before the larva bores into the plant stalk.

<sup>2</sup>Suppression only of beetles active above ground.
 <sup>3</sup>See resistance statement under General Directions for Use.

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

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.

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- Apply with ground or air equipment using sufficient water to obtain full coverage of sunflower heads and/or foliage. When ٠ applying by air, apply in a minimum of 2 gals. of water/A.
- Do not apply within 45 days of harvest.
- Do not apply more than 0.12 lb. a.i. (0.96 pts.)/A per season. Do not apply more than 0.09 lb. a.i. (0.72 pts.)/A per season after bloom initiation.
- Do not apply as an ultra-low volume (ULV) spray. •

<sup>1</sup>Use higher rates for large larvae. <sup>2</sup>Suppression only.

<sup>3</sup>See resistance statement under General Directions for Use.

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	Rate	
Target Pests	lb. a.i <i>J</i> A	fi. oz./A
RED): BURLEY TOBACCO AND FLUE-CURED		
	0.015-0.03	1.92–3.84
Cutworm species		
Tobacco Budwarm <sup>2</sup>		
Potato Tuberworm		
Tobacco Flea Beetle (Adult)		
Cucumber Beetle species (Aduit)		
Blister Beetle species	1	
Vegetable Weevil (Adult)		
	·	
Tobacco Aphid species <sup>2,3</sup>		
	IBED): BURLEY TOBACCO AND FLUE-CURED         Tobacco Hornworm         Tomato Hornworm         Cabbage Looper         Com Earworm         Cutworm species         Tobacco Budworm <sup>2</sup> Salt Marsh Caterpillar         Armyworm species <sup>1</sup> Webworm species         Potato Tuberworm         Tobacco Flea Beetle (Adult)         Cucumber Beetle species (Adult)         Blister Beetle species	Target Pests     Ib. a.i/A       RED): BURLEY TOBACCO AND FLUE-CURED     0.015-0.03       Tobacco Hornworm Tomato Hornworm Cabbage Looper Com Earworm Cutworm species     0.015-0.03       Tobacco Budworm <sup>2</sup> Salt Marsh Caterpillar Armyworm species <sup>1</sup> Webworn species Potato Tuberworm Tobacco Flea Beetle (Adult) Cucumber Beetle species (Adult) Blister Beetle species (Adult) Blister Beetle species Vegetable Weevil (Adult) Japanese Beetle (Adult) Grasshopper species Tree Cricket species Katydid species Plant Bug species <sup>3</sup> Stinkbug species <sup>3</sup> -

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/A.

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- Do not apply within 40 days of harvest. ٠
- Do not apply more than 0.09 lb. a.i. (0.72 pts.)/A per year. ٠

<sup>1</sup>For control of first and second instars only. <sup>2</sup>Suppression only.

<sup>3</sup>See resistance statement under General Directions for Use.

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	Target Pests	Rate	
-[14]		lb. a.i./A	fl. oz./A
TREENL	P	······································	
Almond Beech Nut Brazil Nut Butternut Cashew Chestnut Chinquapin Filbert (Hazionut) Hickory Nut Macadamia Mic (Bush Nut) Walnut, Blann Walnut, Engrish (Persian)	Leafroller species Navel Orangeworm Coolling Moth Filbertworm Peach Twig Borer Walnut Husk Fly species (Adult) Ants Plant Bug species Stink Bug species Chinch Bug Leaffooted Bug Walnut Aphid	0.020.04	2.56–5.12
Pecan	Hickory Shuckworm Pecan Casebearer species Pecan Weevil Pecan Aphid species Pecan Spittlebug Stink Bug species Pecan Phylloxera 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 ٠ 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. (1.28 pts.)/A per year. Do not apply more than 0.12 lb. a.i. (0.96 pts.)/A per year post bloom

## **NON-AGRICULTURAL USES**

		Ra	te	
Crea	Target Pests	lb. a.i./A	fl. oz./A	
CONIFER ALD DECIDUO	JS TREES			
Plantations on this lursenes	Pine Tip Moth species Spruce Budworm Bagworm Tent Caterpillar species Leafroller species Gypsy Moth Webworm species Tussock Moth species Birch Leafminer Pine Sawfly species Sawfly species Pine Chafer Japanese Beetle May Beetle species June Beetle species June Beetle species Pine Colaspis Beetle European Eim Bark Beetle Leaf Beetle species Elm Leaf Beetle Pales Weevil Pine Weevil species Black Pine Weevil Pine Conelet Bug Spittlebug species Pine Leaf Chermid Balsam Twig Aphid Poplar Aphid species Pine Needle Scale Pine Needle Scale Mealybug 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/A.
- Do not apply more than 0.24 lb. a.i. (1.92 pts.)/A per year.

Suppression only

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		Rate	
Сгор	Target Pest	ib. a.i./A	fl.oz./A
CONIFER AND DECIDUOUS TREES			
Seed Orchards	Coneworm species Seed Bug species Thrips species	See Remarks	See Remarks

## 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./A in a minimum of 10 gals. finish spray/A. .
- ٠
- Do not apply more than 0.5 lb. a.i. (4 pts.)/A per year. ٠

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		Rates	
Crop	Target Pest	lb. a.i./A	fl. oz./A
ON-CROPLAND (E	XCLUDING PUBLIC LAND)		
	See Crop Outlets on this Warrior Insecticide with Zeon Technology 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.
- Do not exceed 0.2 lb. a.i. (1.6 pts.)/A per year.
- Do not graze livestock in treated areas.

# Rate Conversion Chart

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
0.025	3.20	0.20	40
0.03	3.84	0.24	33
0.04	5.12	0.32	25

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

Syngenta Crop Protection, Inc. Greensboro, North Carolina 27409 www.syngenta-us.com

SCP 1112-M(Notif-Pest)

WAR 1112 M(Notif-Pest) - Ig -12-1-03

Syngenta Crop Protection, Inc. Tel 336 632 6000 P.O. Box 18300 Greensboro, NC 27419-8300 www.syngenta.com

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December 1, 2003

Document Processing Desk (NOTIF) Office of Pesticide Programs (H7504C) U.S. Environmental Protection Agency Room 266A, Crystal Mall 1921 Jefferson Davis Highway Arlington, VA 22202-4501

SUBJECT: Warrior ®Insecticide with Zeon™ Technology EPA REG. NO. 100-1112 NOTIFICATION of Addition of Pest

Dear Ms. Hobgood,

Syngenta Crop Protection Inc., is submitting 2 copies of labeling (one high lighted) for Warrior® Insecticide with Zeon<sup>™</sup> Technology (EPA Reg.No. 100-1112) with the addition of pest to the Directions for Use section. This labeling also corrects the typo in the Rice Target Pest column to read "Bird Cherry-Oat Aphid' and includes minor re-formatting and clarification.

The label code is SCP 1112A-M(Notif-Pest)

If you have any questions please contact me at (336) 632-2365.

Sincerely,

Fred J. Pearson NAFTA Insecticide Team Leader Syngenta Regulatory Affairs

Enclosures: 2 copies of labeling (1 high lighted with changes) EPA Form 8570-1

cc: George LaRocca PM 13

