# 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

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 detaile. (If you do not understand the label, find someone to explain it to you in detail.)

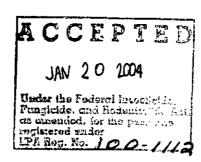
See additional precautionary statements and directions for use in booklet.

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

Product of the United Kingdom Formulated in USA

SCP 1112-M(Draft 1-16-04)

**Net Contents** 



	FIRST AID
If swallowed	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Do not give any liquid to the person.</li> <li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
If in eyes	<ul> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
If on skin or clothing	<ul> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
If inhaled	<ul> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>
Have the product doctor, or going to	t container or label with you when calling a poison control center or for treatment.
For 2	HOT LINE NUMBER 4 Hour Medical Emergency Assistance (Human or Animal) 6 mical Emergency Assistance (Spill, Leak, Fire, or Accident),
	Call <b>1-800-888-8372</b>

# 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.

# Applicators and 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
- 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.

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### **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 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 should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of 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 risks 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 violation 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 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:

- Coverails
- Chemical-resistant gloves, 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.

# 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 unityersity and extension field trials, to be effective with Warrior Insecticide with Zeon-Technology applied by chemigation.

Check the integration system to insure uniform application of water to all areas. Thorough coverage of tollage is required for good control. Good agrication 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 acreainsh 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 labelprescribed 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 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. Do not apply when wind speed favors drift beyond the area intended for treatment.
- M. Do not apply through chemigation systems connected to public water systems.

# SPECIFIC USE DIRECTIONS

# AGRICULTURAL USES

		Ra	te
Сгор	Target Pests	lb. a.i./A	fl. oz./A
LFALFA AND ALFA	LFA GROWN FOR SEED		
	Alfalfa Caterpillar Cutworm species Army Cutworm Green Cloverworm Looper species Velvetbean Caterpillar Webworm species Leafhopper species Threecomered Alfalfa Hopper	0.015–0.025	1.92–3.20
	Armyworm Corn Earworm Fall Armyworm¹ Westem 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) Cucumber Beetle species (Adult) Egyptian Alfalfa Weevil Grape Colaspis (Adult) Green June Beetle (Adult) Japanese 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 species³ Stink Bug species Alfalfa Seed Chalcid (Adult) Blue Alfalfa Aphid Cowpea Aphid Green Peach Aphid³ Pea Aphid Spotted Alfalfa Aphid Thrips species⁴ Grasshopper species	0.02-0.03	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 hay.

<sup>&</sup>lt;sup>1</sup> Use higher rates for large larvae.

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

		Rate	
Crop	Target Pests	lb. a.l./A	fl. oz/A
CANOLA			,
	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

- 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/A.

- Do not apply within 7 days of harvest.
  Do not apply more than 0.09 lb. a.i. (0.72 pts.)/A per year.

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		R	ate
Crop	Target Pest	lb. a.i./A	fl.oz./A
CEREAL GRAINS			
Com (At Plant): Field Com Popcom Seed Com Sweet Com	Wireworm species Cutworm species Seedcorn Maggot White Grub species Com Rootworm Larvae Western Northem Southem Mexican Seedcorn Beette Lesser Comstalk Borer Red Imported Fire Ant	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>

- 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 gats, finished spray/A.
- . 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. (0.72 pts.)/A per crop at plant.
- For field com, popcom, and seed com do not apply more than 0.12 lb. a.i./A per crop from at plant and foliar applications. For sweet com do not apply more than 0.48 lb. a.i./A per crop from at plant and foliar applications.

Suppression only.

*Lbs. a.i. and f o	z./A of Warrior Inse	ecticide 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 =t./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	
Crop	Target Pests	fb. a.i./A	fl. oz./A	
CEREAL GRAINS				
Com (Foliar) Field Com Popcom Seed Com	Cutworm species Western Bean Cutworm Com Earworm Green Cloverworm Meadow Spittlebug	0.015-0.025	1.92–3.20	
	Tobacco Budworm <sup>1,4</sup> European Com Borer Southwestern Com Borer Stalk Borer' Hop Vine Borer Lesser Comstalk Borer Armyworm <sup>2</sup> Fall Armyworm <sup>2</sup> Yellow-striped Armyworm <sup>2</sup> Webworm species Flea Beetle species Western 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 Japanese Beetle (Adult) Sap Beetle (Adult) Sap Beetle (Adult) Seedcorn Beetle Stink Bug species Grasshopper species Corn Leaf Aphid <sup>3</sup> Bird Cherry-Oat Aphid <sup>3</sup> English Grain Aphid <sup>3</sup>	0.02-0.03	2.56-3.84	
	Mexican rice Borer Rice Stalk Borer Sugarcane Borer Beet Armyworm <sup>4</sup> Southern Corn Leaf Beetle <sup>3</sup> Chinch Bug Green Bug <sup>3</sup>	0.03	3.84	

- 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 corn 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 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. (0.96 pts.)/A per crop from at plant and foliar applications.
- 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).



<sup>1</sup>For control before the larva bores into the plant stalk or ear.
<sup>2</sup>Use higher rates for large larvae.
<sup>3</sup>Suppression only.
<sup>4</sup>See resistance statement under **General Directions for Use**.

		Rate	
Crop	Target Pests	lb. a.i./A	fl. oz./A
CEREAL GRAINS			
Sweet Com (Foliar)	Com Earworm Armyworm Fall Armyworm Southern Armyworm Beet Armyworm Beet Armyworm Cutworm species Western Bean Cutworm Webworm species European Com Borer Southwestern Com Borer Common Cornstalk Borer Western Corn Rootworm Beetle (Adult) Northern Corn Rootworm Beetle (Adult) Northern 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 Aphid 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

- 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/A.
- For control of adult com 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 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 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 rates for large larvae. Suppression only.

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

Сгор		Rate		
	Target Pests	ib. 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 Rice Stalk Borer Sugarcane Borer European Com Borer Rice Seed Midge	0.025-0.04	3.20-5.12	

- 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 propanii 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 acults, 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.

For control before the larvae bores into the plant stalk.

		Rate		
Crop	Target Pests	lb. a.i./A	fi. oz./A	
CEREAL GRAINS 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> Com Earworm Webworm species European Com Borer <sup>2</sup> Southwestern Com Borer <sup>2</sup> Lesser Comstalk 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	

- 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 Technology
  may only suppress heavy infestations and/or subsequent migrations.
- Do not apply more than 0.08 lb. a.i. (0.64 pts.)/A per season.
- Do not apply more than 0.06 lb. a.i. (0.48 pts.)/A per season after crop emergence.
- Do not apply more than 0.02 lb. a.i. (0.16 pts.)/A per season once crop is in soft dough stage.
- Do not apply within 30 days of harvest.

Use higher rates for large larvae.

<sup>&</sup>lt;sup>2</sup>For control before the larva bores into the plant stalk.

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

		Rate	
Crop	Target Pests	lb. a.i./A	fl. oz./A
Wheat Wheat Hay Triticale	Cutworm species Army Cutworm	0.015-0.025	1.92–3.20
	Armyworm Fall Armyworm Yellow-striped Armyworm Flea Beetle species  Cereal Leaf Beetle Stink Bug species  English Grain Aphid Russian Wheat Aphid Bird Cherry-Oat Aphid Grasshopper species Hessian Fly Orange Blossom Wheat Midge	0.02-0.03	2.56–3.84
	Grass Sawfly	0.025-0.03	3.20–3.84
	Chinch Bug Greenbug <sup>3</sup> Com Leaf Aphid <sup>2</sup> 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.
- 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.
- Greenbug 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 allow livestock to graze in treated areas or harvest treated wheat forage as feed for meat or dairy animals within 7 days
  after last 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. (0.48 pts.)/A per season.

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

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

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

		Ra	te
Crop	Target Pests	lb. a.i./A	fl. oz./A
COLE CROPS(Head and Sterr	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) Kohlrabi	Diamondback Moth <sup>3</sup> Armyworm Beet Armyworm <sup>1,3</sup> Fall Armyworm' Yellow-striped Armyworm Com Earworm Flea Beetle species  Japanese Beetle (Adult) Vegetable Weevil (Adult) Grasshopper species  Leafhopper species  Plant Bug species including Lygus species <sup>3</sup> Stink Bug species Meadow Spittlebug Aphid species <sup>2,3</sup> Whitefly species <sup>2,2</sup> Thrips species <sup>2</sup> Spider Mite species <sup>2</sup>	0.02-0.03	2.56-3.84

- 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.
- Do not apply within 1 day of harvest.
- Do not apply more than 0.24 lb. a.i. (1.92 pts.)/A per season.

For control of first and second instar only. Suppression only. See resistance statement under **General Directions for Use**.

		Rate	
Crop COTTON	Target Pests	lb. a.i./A	fi. oz./A
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Cutworm species Tobacco Thrips Soybean Thrips	0.015-0.02	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 Whitefty <sup>2,3</sup> Sweetpotato Whitefty <sup>2,3</sup>	0.025-0.04	3.20-5.12

- 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 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 bollworm/budworm infestation levels, 0.02 lb. a.i./A 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 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 one 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.

For control of first and second instar only.

<sup>&</sup>lt;sup>2</sup>Suppression only.

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

		Ra	te
Crop	Target Pests	lb. a.i./A	fl. oz./A
FRUITING VEGETABLES			
Tomato Tomatillo Peppers (bell and nonbell) Eggplant	Cabbage Looper Cutworm species Hornworm species	0.015~0.025	1.92–3.20
Ground cherry Pepino	Tomato Fruitworm Tobacco Budworm³ Tomato Pinworm Beet Armyworm' Southern Armyworm' Yellow-striped Armyworm Fall Armyworm European Com Borer⁴ Leafminer species² Colorado Potato Beetle³ Fiea Beetle species  Grasshopper species  Leafhopper species  Leafhopper species  Aphid species²³ Whitefly species²³ Whitefly species²³ Meadow Spittlebug Stink Bug species  Plant Bug species  Stalk Borer⁴ Blister Beetle species  Japanese Beetle (Adult) Pepper Weevil (Adult)² Vegetable Weevil (Adult) Tomato Psyllid²³ Spider Mite species²  Thrips⁵ Cucumber Beetle species (Adult)	0.02-0.03	2.56-3.84

- 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.
- Do not apply within 5 days of harvest.
- Do not apply more than 0.36 lb. a.i. (2.88 pts.)/A per season.

For control of first and second instar only.

Suppression only.

See resistance statement under General Directions for Use.

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

Does not include Western Flower Thrips.

		<u> </u>	
		Rat	te
Crop	Target Pests	lb. a.i./A	fl. oz/A
LEGUME VEGETABLES	(Beans and Peas)		
Edible Podded (Only)	Cutworm species	0.015-0.025	1.92-3.20
	Green Cloverworm		
Canavalia gladiata	Imported Cabbageworm		
<ul> <li>sword bean</li> </ul>	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*		
Shelled or Dried Shelled	Armyworm <sup>2</sup>		
	Fall Armyworm <sup>2</sup>	ļ	
Phaseolus species –	Yellow-Striped Armyworm <sup>2</sup>	ł	
includes: field, kidney,	Western Yellow-Striped Armyworm <sup>2</sup>	ľ	
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,	Com Rootworm Beetle species (Adult)	į	
mung, nce, urd and	Flea Beetle species (Adult)		
yardiong beans, black-	Curculio and Weevil species (foliage and pod	ł	
eye pea. catjang,	feeding adults and larvae)	i	
Chinese longbean,	Blister Beetle species Bean Leaf Beetle		
cowpea, Crowder pea.	I I	j	
and Southern pea	Japanese Beetle (Adult)		
6:	Leafhopper species		
Pisum species –	Flea Hopper species	1	
includes: dwarf,	Three-Comered Alfalfa Hopper Meadow Spittlebug	I	
edible-pod, English,	Stink Bug species	1	
field, garden, green.	Plant Bug species Including Lygus species <sup>4</sup>		
snow and sugar snap	Grasshopper species	-	
peas	Thrips species	ĺ	
	Aphid species	ļ	
Cajanus cajan –	Uhilin aherica	Ī	
Pigeon pea			

Сгор		Ra	te
	Target Pests	ib. a.i./A	fl. oz/A
LEGUME VEGETABLES	Beans and Peas)		
(continued)			
	Beet Armyworm <sup>3,4</sup>	0.03	3.84
Succulent Shelled or	Soybean Looper <sup>3,4</sup>		
Dried Shelled	Lesser Cornstalk Borer <sup>3</sup>		
	Leafminer species <sup>3,4</sup>	<u> </u>	
Vicia faba. –	Whitefly species <sup>3,4</sup>		
broadbean (favabean)	Spider Mite species <sup>3</sup>	ļ	
Dried Shelled (Only)			
Lupinus species			
includes: grain, sweet,		1	
white and sweet white			
lupines		]	
Cicer arietimum -			
chickpea (garbonzo		<b>i</b>	
bean)			
Cyamopsis		[	
tetragonoloba – guar			
		1	
Lablab pupureus –		I	
Lablab bean (hyacinth		l i	
bean)			
		-	
ens esculata – Lentils			

- 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 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. (0.96 pts.)/A per season.
- For succulent and dried shelled peas and beans, do not graze livestock in treated areas or harvest vines for forage or hay.

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

<sup>&</sup>lt;sup>3</sup>For suppression only.

<sup>\*</sup>See resistance statement under **General Directions for Use**. <sup>5</sup> Does not include Western Flower Thrips.

	Target Pests	Ra	nte
Сгор		lb. a.i./A	fl. oz./A
LEGUME VEGETABL	ES (SOYBEANS)		
Soybean	Com 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) 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 Fall Armyworm Yellow-striped Armyworm Tobacco Budworm Webworm species European Corn 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 Comstalk Borer <sup>2</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.
- 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 gais, of water/A.
- For control of adult corn rootworm beetles (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.

Use higher rates for large larvae.

Suppression only.

See resistance statement under General Directions for Use.

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

<sup>&</sup>lt;sup>5</sup>Does not include WesternFlower Thrips.

		Rate	
Crop	Target Pests	lb. a.i./A	fl. oz./A
TTUCE (HEAD AND	LEAF)		
	Alfalfa Looper Cabbage Looper Imported Cabbageworm Cutworm species Saltmarsh Caterpillar Green Cloverworm	0.015–0.025	1.92–3.20
	Diamondback Moth <sup>3</sup> Armyworm Beet Armyworm <sup>1,3</sup> Fall Armyworm 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 Meadow Spittlebug Aphid species <sup>2,3</sup> Whitefly species <sup>2,5</sup> Spider Mite species <sup>2</sup>	0.02-0.03	2.56-3.84

- 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.
- Do not apply within 1 day of harvest.
- Do not apply more than 0.3 lb. a.i. (2.4 pts.)/A per season.

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

<sup>&</sup>lt;sup>3</sup>See resistance statement under **General Directions for Use**.

	Target Pests	Rate	
Crop		lb. a.i./A	fl. oz./A
ION (BULB) AND GAR	LIC		
	Cutworm species Seedcorn Maggot (Adult) Onion Maggot (Adult) Leafminer species (Adult)	0.015–0.025	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

- 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/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) 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 first and second instar only. Suppression only.

<sup>&</sup>lt;sup>3</sup>See resistance statement under **General Directions for Use**.

		Rate	
Crop	Target Pests	lb. a.i./A	fl. oz./A
ANUT			
	Cutworm species Green Cloverworm Velvetbean Caterpillar Red-necked Peanut Worm Potato Leafhopper Three Comered Alfalfa Hopper	0.0150.025	1.92–3.20
	Com Earworm Fall Armyworm Bean Leaf Beetle Southern Corn 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 Comstalk Borer <sup>2</sup> Spider Mite species <sup>2</sup> Aphid species <sup>2</sup>	0.03	3.84

- 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 to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gats, of water/A.
- Do not apply within 14 days of harvest.
- Do not apply more than 0.12 lb. a.i. (0.96 pts.)/A per season.

Use nigher rates for large larvae.

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

Crop		Rate	
	Target Pests	lb. a.l./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 Plum Curculio Japanese Beetle Tree Borer species Plant Bug species Periodical Cicada Apple Aphid Rosy Apple Aphid Spirea Aphid Pear Psylla' San Jose Scale (fruit infestations only)	0.02-0.04	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.

Suppression only

Crop		Rate	
	Target Pests	ib. a.i./A	fl. oz./A
STONE FRUITS			
Apricot Sweet and Tart Cherry Nectarine Peach Plum Chickasaw Plum Damson Plum Japanese Plum Plumcot Prune	Leafroller species Peach Twig Borer Oriental Fruit Moth Peachtree Borer species Green Fruitworm Tant Caterpillar species Codling Moth American Plum Borer Apple Maggot (Adult) 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	0.02-0.04	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 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.

Сгор	Target Pest	Rate	
		lb. a.l./A	fl. oz./A
SUGARCANE			
	Mexican Rice Borer' Sugarcane Borer' Rice Stalk Borer' 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.

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

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

Crop	Target Pests	Rate	
		lb. a.í./A	fl. oz./A
UNFLOWER	Sunflower Beetle Cutworm species	0.015-0.025	1.92–3.20
	Sunflower Moth Banded Sunflower Moth Fall Armyworm 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	2.563.84
	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.
- 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/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.

Use higher rates for large larvae.

<sup>&</sup>lt;sup>2</sup>Suppression only.

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

		Rate	
Crop	Target Pests	lb. a.i./A	fl. oz./A
BACCO (AIR DR BACCO	IED): 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 Vegetable Weevil (Adult) Japanese Beetle (Adult) Grasshopper species Tree Cricket species Katydid species Plant Bug species <sup>3</sup> Stinkbug species Tobacco Thrips species <sup>2</sup> Tobacco Aphid species <sup>2</sup>	0.015-0.03	1.92-3.84

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

For control of first and second instars only. Suppression only.

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

	Target Pests	Rate	
Crop		lb. a.l./A	fl. oz./A
TREE NUTS	<del></del>		
Almond Beech Nut Brazil Nut Butternut Cashew Chestnut Chinquapin Filbert (Hazlenut) Hickory Nut Macadamia Nut (Bush Nut) Walnut, Black Walnut, English (Persian)	Leafroller species Navel Orangeworm Codling Moth Filbertworm Peach Twig Borer Walnut Husk Fly species (Adult) Ants Plant Bug species Stink Bug species Chinch Bug Leaffooted Bug Walnut Aphid	0.02-0.04	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

- 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. (1.28 pts.)/A per year. Do not apply more than 0.12 lb. a.i. (0.96 pts.)/A per year post bloom.

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		Rate		
Сгор	Target Pests	lb. a.i./A	fl. oz/A	
CONIFER AND DECIDUO	OUS TREES			
Plantations and Nurseries	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 Wooly Aphid Balsam Twig Aphid Poplar Aphid species Pine Tortoise Scale Pine Needle Scale		2.56–5.12	

- 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.

		Rate		
Crop	Target Pest	lb. a.i./A	fl.oz/A	
CONIFER AND DECI	DUOUS TREES			
Seed Orchards	Coneworm species Seed Bug species Thrips species	See Remarks	See 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. Do not apply more than 0.5 lb. a.i. (4 pts.)/A per year.

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

- 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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SCP 1112-M(Draft 1-16-04))

WAR 1112 M(Draft 1-16-04) - Ig -1-16-04



# Chron

9/27/03 - Accepted - revised First Aid per PR Notice 2001-2; revised container disposal; revised crop DFUs

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2/6/03 – Accepted – minor revisions correcting/clarifying the use directions approved on 9/27/03

12/1/03- Notification – Addition of pest, minor clarification and non-notif reformatting and typo corrections.

1-16-04 - Draft