

U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs Registration Division (7505T) 1200 Pennsylvania Ave., N.W. Washington, D.C. 20460

91234-391

Date of Issuance:

EPA Reg. Number:

4/25/24

NOTICE OF PESTICIDE:

X Registration Reregistration

(under FIFRA, as amended)

Term of Issuance: Conditional

Name of Pesticide Product:

X198.106

Name and Address of Registrant (include ZIP Code):

Atticus, LLC 940 NW Cary Parkway, Suite 200 Cary, NC 27513

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Continues page 2

Signature of Approving Office	cial:	Date:
San Godal	Scott Campbell, Product Manager 03 Invertebrate-Vertebrate Branch I, Registration Division (7505T)	4/25/24

EPA Form 8570-6

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- 2. You are required to comply with the data requirements described in the generic data call-in (GDCI) identified below:
  - a. Cypermethrin GDCI-109702-1208
  - b. Cypermethrin GDCI-129064-1209
  - c. Cypermethrin GDCI-209600-1329
  - d. Bifenthrin GDCI-128825-902

You must comply with all of the data requirements within the established deadlines. If you have questions about the GDCI listed above, you may contact the Chemical Review Manager in the Pesticide Re-Evaluation Division: <a href="http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1">http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1</a>

- 3. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, "EPA Reg. No. 91234-391."
- 4. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance. If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

The record for this product currently contains the following CSF(s):

• Basic CSF dated 11/17/2023

If you have any questions, please contact Laura Rademacher at Rademacher.Laura@epa.gov.

Enclosure

great{Note to reviewer: [Text] in brackets denotes optional or explanatory language} {Note to reviewer: {Text} in braces denotes where in the final label text will appear}

# **{BOOKLET FRONT PANEL LANGUAGE}**

#### 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.

# ACCEPTED

04/25/2024

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 24224 2024

91234-391

ZETA-CYPERMETHRIN	GROUP 3A	INSECTICIDE
BIFENTHRIN	GROUP 3A	INSECTICIDE

X198.106 <sup>[™]</sup>

[Alternate Brand Name: Cortes BTN]

[Contains zeta-cypermethrin and bifenthrin, the active ingredients used in Hero® Insecticide.]

ACTIVE INGREDIENTS:	(% by weight)
Zeta-Cypermethrin*	3.75%
Bifenthrin**	11.25%
OTHER INGREDIENTS***:	85.00%
TOTAL	

contains 0.309 pound zeta-cypermethrin and 0.927 pound bifenthrin per gallon.

- \* Cis/trans isomer ratio: Max 75% (±) cis and Min. 25% (±) trans
- \*\* Cis isomers 97% minimum; trans isomers 3% maximum.
- \*\*\* Contains Petroleum Distillates

# CAUTION

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 inside label booklet for First Aid, [additional] Precautionary Statements, and Directions for Use.]

[See below for additional Precautionary Statements]

[X198.106 is not manufactured, or distributed by FMC Corporation, seller of Hero® Insecticide.]

EPA Reg. No.: 91234-XX

EPA Est. No.: Net Contents:

Manufactured for:
Atticus, LLC
940 NW Cary Parkway, Suite 200
Cary, NC 27513

# **{LANGUAGE INSIDE BOOKLET}**

	FIRST AID			
If swallowed:	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</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 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 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 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 mouth-to-mouth, if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>			
	NOTE TO PHYSICIAN:			
Contains petrole	eum distillates. Vomiting may cause aspiration pneumonia.			
HOT LINE NUMBER				
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall at <b>1-844-685-9173</b> for emergency medical treatment information.				

For Chemical Emergency:
Spill, Leak, Fire, Exposure, or Accident,
Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)

# PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals CAUTION

Harmful if swallowed, inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid breathing vapor or spray mist. Do not get on skin, in eyes or on clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

#### **Personal Protective Equipment:**

Handlers who may be exposed to the dilute through application or other tasks must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves made of barrier laminate; or viton ≥ 14 mils.
- Shoes plus socks.

#### Handlers who may be exposed to the concentrate through mixing, loading, application or other tasks must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves made of barrier laminate; or viton ≥ 14 mils.
- Shoes plus socks.
- Protective eyewear.

#### **User Safety Requirements**

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.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

#### **User Safety Recommendations**

Wash thoroughly with soap and water after handling. 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.

#### **Engineering Control Statements**

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 (540CFR 170.240(d)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

#### **Environmental Hazards**

This pesticide is extremely toxic to fish, aquatic invertebrates, oysters and shrimp. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

The use of **X198.106** is prohibited in areas where its application may result in exposure to endangered species. Prior to use in a particular county contact the local extension service for procedures and precautions to use to protect endangered species

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. Protect pollinating insects by following label directions intended to minimize drift and to reduce risk to these organisms.

#### **Physical or Chemical Hazards**

Combustible: Do not use or store near heat or open flame.

**{NOTE TO REVIEWER:** Registrant may add or remove the following state specific statement as required throughout.}

[NOT REGISTERED FOR USE IN NEW YORK] [NOT REGISTERED FOR USE IN CALIFORNIA]

# **DIRECTIONS FOR USE**

#### **Restricted Use Pesticide**

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

#### **Resistance Management**

For resistance management, **X198.106** contains a Group 3A insecticide. Any insect population may contain individuals naturally resistant to **X198.106** and other Group 3A insecticides. The resistant individuals may dominate the insect population if this group of insecticides is used repeatedly in the same fields. Appropriate resistance-management strategies should be followed. To delay insecticide resistance, take the following steps:

- Rotate the use of **X198.106** or other Group 3A insecticides within a growing season, or among growing seasons, with different groups that control the same pests.
- Use tank mixtures with insecticides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
  - o Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
  - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
  - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pests.
  - o Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
  - The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticidal activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticides that includes scouting, uses historical
  information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological,
  and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistancemanagement and/or IPM recommendations for the specific site and pest problems in your area.

# 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 12 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 made of barrier laminate or viton ≥ 14 mils, and shoes plus socks.

#### **CHEMIGATION USE DIRECTIONS**

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 systems. Do not apply this product through any other type of irrigation system. Do not connect any irrigation system (including greenhouse systems) used for pesticide application to a public water system.

Crop injury, lack of effectiveness, or illegal residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately

located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must also contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

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

Apply **X198.106** continuously for the duration of the water application. Dilute **X198.106** in sufficient volume to ensure accurate application over the area to be treated.

Use the appropriate amount of water to carry the product to the target pest. Agitation is not required when a suitable diluent is used.

#### **VEGETATIVE FILTER STRIPS**

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

Only apply products containing bifenthrin and/or zeta-cypermethrin onto fields where a maintained vegetative filter strip of at least 25 feet exists between the field edge and where a down gradient aquatic habitat exists. This minimum required width of 25 feet may be reduced or removed under the following conditions:

- For Western irrigated agriculture, a maintained vegetative filter strip of at least 10 feet wide is required. Western irrigated agriculture is defined as irrigated farmland in the following states: WA, OR, CA, ID, NV, UT, AZ, MT, WY, CO, NM, and TX (west of I-35).
  - For Western irrigated agriculture, if a sediment control basin is present, a vegetative filter strip is not required.
- In all other areas, a vegetative filter strip with a minimum width of 25 feet is required, unless the following conditions are met. The vegetative filter strip requirement may be reduced from 25 feet to 15 feet if at least one of the following applies:
  - The area of application is considered prime farmland (as defined in 7 CFR § 657.5)
  - Conservation tillage is being implemented on the area of application. Conservation tillage is defined as any system that leaves at least 30% of the soil surface covered by residue after planting. Conservation tillage practices can include mulch-till, no-till, or strip-till.
  - A functional terrace system is maintained on the area of application.
  - Water and sediment control basins for the area of application are functional and maintained.
  - The area of application is less than or equal to 10 acres.

For further guidance on vegetated filter strips, refer to the following publication for information on constructing and maintaining effective buffers: Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. <a href="https://www.regulations.gov/document?D=EPA-HQ-OPP-2008-0331-0175">https://www.regulations.gov/document?D=EPA-HQ-OPP-2008-0331-0175</a>

#### **BUFFER ZONES TO WATER BODIES**

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

**Ultra Low Volume (ULV) Aerial Application** - Do not apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fish ponds).

Non-ULV Aerial Application – Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes,

reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fish ponds).

In New York State this product may not be applied within 100 feet (using ground equipment) to 300 feet (using aerial equipment) of coastal marshes or streams that drain into coastal marshes.

#### **Mandatory Spray Drift Management**

#### **Aerial Applications:**

- Do not release spray at a height greater than 10 feet above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators are required to select nozzle and pressure that deliver medium or coarser droplets (ASABE S641)
- Do not apply when wind speeds exceed 15 mph at the application site. If the wind speed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- If the wind speed is 10 mph or less, applicators must use ½ swath displacement upwind at the downwind edge of the field. When the windspeed is between 11-15 mph, applicators must use ¾ swath displacement upwind at the downwind edge of the field.
- Do not apply during temperature inversions.

#### **Airblast Applications:**

- Sprays must be directed into the canopy.
- Do not apply when wind speeds exceed 15 mph at the application site.
- User must turn off outward pointing nozzles at row ends and when spraying outer row.
- Do not apply during temperature inversions.

#### **Ground Boom Applications:**

- User must only apply with the nozzle height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to select nozzle and pressure that deliver medium or coarser droplets (ASABE S572).
- Do not apply when wind speeds exceed 15 mph at the application site.
- Do not apply during temperature inversions.

#### **Spray Drift Advisories**

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.
BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

# IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

#### **Controlling Droplet Size - Ground Boom**

- Volume Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the
  highest practical spray volume for the application. If a greater spray volume is needed, consider using a
  nozzle with a higher flow rate.
- Pressure Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

#### **Controlling Droplet Size – Aircraft**

• Adjust Nozzles – Follow nozzle manufacturers recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

#### **BOOM HEIGHT – Ground Boom**

For ground equipment, the boom should remain level with the crop and have minimal bounce.

#### **RELEASE HEIGHT – Aircraft**

• Higher release heights increase the potential for spray drift.

#### SHIELDED SPRAYERS

• Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

#### **TEMPERATURE AND HUMIDITY**

• When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

#### **TEMPERATURE INVERSIONS**

Drift potential is high during a temperature inversion. Temperature inversions are characterized by
increasing temperature with altitude and are common on nights with limited cloud cover and light to no
wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a
ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated
cloud (under low wind conditions) indicate an inversion, while smoke that moves upward and rapidly
dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

#### WIND

- Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.
- Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

# NON-TARGET ORGANISM ADVISORY STATEMENT (Environmental Hazards):

• This product is highly toxic to bees and other pollinating insects exposed to direct treatment or to residues in/on blooming crops or weeds. Protect pollinating insects by following label directions intended to minimize drift and reduce pesticide risk to these organisms.

#### **Pollinator Best Management Practices**

Following best management practices can help reduce the risk to terrestrial pollinators. Examples of best management practice include applying pesticides in the evening and at night when pollinators are not foraging and checking to confirm hive locations before spraying. For additional resources on pollinator best management practices, visit https://www.epa.gov/pollinator-protection/find-best-management-practices-protect-pollinators.

**Managed pollinator protection plans** are developed by states/tribes to promote communication between growers, landowners, farmers, beekeepers, pesticide users, and other pest management professionals to reduce exposure of bees to pesticides. If available, visit state plans for additional information on how to protect pollinators.

#### **How to Report Bee Kills**

It is recommended that users contact both state lead agency and the U.S. Environmental Protection Agency to report bee kills due to pesticide application. Bee kills can be reported to EPA at <a href="mailto:beekill@epa.gov">beekill@epa.gov</a>. To contact your state lead agency, see the current listing of state pesticide regulatory agencies at the National Pesticide Information Center's website: <a href="http://npic.orst.edu/reg/state\_agencies.html">http://npic.orst.edu/reg/state\_agencies.html</a>

#### **GENERAL INSTRUCTIONS**

Use low labeled rates under light to moderate infestation. Use higher labeled rates for heavy insect pressure. The rate of application is variable according to insect pressure, timing of spray and field scouting. Do not exceed maximum labeled rate.

#### **Rotational Crops**

Crops for which bifenthrin and zeta-cypermethrin tolerances exist may be rotated at any time. All other crops may be rotated 30 days following the final application of **X198.106**.

#### Tank-Mixture

**X198.106** may be applied in tank mixtures with other products approved for use on the crops listed for use on this label. Observe all restrictions and precautions that appear on the labels of these products. Test for compatibility of products before mixing.

#### X198.106 contains the pyrethroids zeta-cypermethrin and bifenthrin.

Maximum Usage When Applying Zeta-Cypermethrin and Cypermethrin Products to the Same Crop Within the Same Season.

Do not apply more than the maximum yearly total for either zeta-cypermethrin or cypermethrin products when used alone;

Do not apply more than the combined maximum yearly total for both products as outlined in the table below.

Crop	Maximum Yearly Total (lb ai/A)		Maximum Yearly Total (Ib ai/A) When Applying Cypermethrin and Zeta- cypermethrin Products to the Same Crop	Maximum Yearly Total (Ib ai/A) When Applying Zeta- cypermethrin Products to the Same Crop	
	Zeta-cype	rmethrin*	Cypermethrin**	Zeta-cypermethrin* plus Cypermethrin**	Zeta-cypermethrin*
	Mustang Maxx Insecticide	X198.106			
Canola	0.15	0.0265	NA	NA	0.15
Cotton	0.15	0.1125	0.4	0.4	0.15
Field Corn	0.1	0.1	NA	NA	0.1
Peanut	0.15	0.067	NA	NA	0.15
Potato	0.15	0.1125	NA	NA	0.15
Eggplant, okra, pepper	0.15	0.067	NA	NA	0.15
Tomato	0.15	0.1	NA	NA	0.15
Head Lettuce	0.15	0.1125	0.6	0.6	0.15
Head and Stem Brassica	0.15	0.1125	0.6	0.6	0.15
Leafy Brassica	0.15	0.1125	0.4	0.4	0.15
Soybean	0.15	0.1	NA	NA	0.3
Cucurbits	0.15	0.1		NA	0.15
Dried and Succulent Peas and Beans	0.15	0.067	NA	NA	0.15
Root and	0.15	0.1125	NA	NA	0.15

Tuber					
vegetables					
Blueberries	0.15	0.1125	NA	NA	0.15
Caneberries	0.15	0.067	NA	NA	0.15
Grapes	0.15	0.025	NA	NA	0.15
Pecans	0.125	0.1125	0.5	0.5	0.125
Avocado	0.15	0.0938	NA	NA	0.15

<sup>\*</sup> Mustang Maxx Insecticide; **X198.106**; or any zeta-cypermethrin product approved for crop use. \*\*Any cypermethrin product approved for crop use.

NA = Not Applicable.

	Maximum Yearly Total (Ib ai/A)			
Crop		nthrin	When Applying Bifenthrin*	
	X198.106	Bifenthrin*	Products Plus X198.106 to the Same Crop	
Canola	0.08	0.08	0.08	
Cotton	0.3375	0.5	0.5	
Field Corn	0.3	0.3	0.3	
Sweet Corn	0.2	0.2	0.2	
Peanut	0.3	0.5	0.5	
Potato	0.3375	0.5	0.5	
Eggplant, okra, pepper	0.2	0.2	0.2	
Tomato	0.315	0.32	0.32	
Head Lettuce	0.3375	0.5	0.5	
Head and Stem Brassica	0.3375	0.5	0.5	
Leafy Brassica	0.3375	0.4	0.4	
Soybean	0.3	0.3	0.3	
Cucurbits	0.3	0.3	0.3	
Dried and Succulent Peas and Beans	0.2	0.2	0.2	
Root and Tuber vegetables	0.3375	0.5	0.5	
Blueberries	0.3375	0.5	0.5	
Caneberries	0.2	0.2	0.2	
Grape	0.075	0.1	0.1	
Pecans	0.3375	0.5	0.5	
Avocado	0.2812	0.2812	0.2812	

#### **FIELD CROPS**

#### Canola, Crambe and Rapeseed

Pests Controlled	Rate of Application
Cutworm spp.	2.6 – 5.5 fl oz/A of product
Flea beetle	
Aphid spp.	4.0 – 5.5 fl oz/A of product
Armyworm, fall*	
Armyworm, southern	
Armyworm, true	
Armyworm, yellowstriped	
Diamondback moth**	
Fleahopper	
Grasshopper	
Looper spp.	
Seedpod weevil	
Stinkbug spp.	

#### Restrictions

PHI: Do not apply within 35 days of harvest.

**Application Interval:** Do not make applications less than 14 days apart.

**Maximum Amount per Application:** Do not apply more than 5.5 fl oz/A of product t (0.013 lb/A zeta-cypermethrin + 0.04 lb/A bifenthrin) per application.

**Maximum Amount of X198.106 allowed per Year:** Do not apply more than 11 fl oz/A of product (0.026 lb/A zeta-cypermethrin + 0.08 lb/A bifenthrin) per year.

Do not make more than 2 applications per year when applications are made at the maximum rate.

Refer to the maximum usage tables when applying more than one product containing either zetacypermethrin or bifenthrin to this crop.

#### Remarks

Apply as required by scouting. Base timing and frequency of applications on insect populations reaching locally determined economic threshold levels.

Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons of finished spray per acre by ground and 2 gallons of finished spray per acre by air).

\*Coverage is essential for control of this pest. For heavy outbreaks, tank mix with another product that is labeled for this pest.

\*\*Pyrethroid resistance is common for these pests. Please consult your local or state agricultural authority to determine if resistance pest populations are in your area. If so, refer the resistance management statement in the DIRECTION FOR USE section of this label.

#### Cotton

Pests Controlled	Rate of Application
European Corn Borer	3.6 – 10.3 fl oz/A of product
Grasshoppers	
Soybean (Banded) Thrips	
Tobacco Thrips	
Armyworm, Fall*	5.2 – 10.3 fl oz/A of product
Armyworm, Yellowstriped	
Bagrada bug	
Boll Weevil	
Bollworm	
Cabbage Looper	
Cotton Aphid	
Cotton Fleahopper	
Cotton Leafperforator	
Cutworms	
Saltmarsh Caterpillar	
Southern Garden Leafhopper	
Stink Bugs	
Tobacco Budworm*	
Carmine Spider Mite	10.3 fl oz/A of product
Lygus Species	
Pink Bollworm	
Twospotted Spider Mite	
Whitefly	

#### Restrictions

PHI: Do not apply within 14 days of harvest.

**Maximum Amount per Application:** Do not apply more than 10.3 fl oz/A of product (0.025 lb/A zeta-cypermethrin + 0.075 lb/A bifenthrin) per application.

**Maximum Amount of X198.106 allowed per Year:** Do not apply more than 46.35 fl oz/A of product (0.112 lb/A zeta-cypermethrin + 0.336 lb/A bifenthrin) per year.

Do not make more than 4 applications per year when applications are made at the maximum rate.

Refer to the maximum usage tables when applying more than one product containing either zeta-cypermethrin or bifenthrin to this crop.

Do not graze livestock in treated areas or cut treated crops for feed.

# **REMARKS**

X198.106 may be applied in water or refined vegetable oil (soybean/cottonseed).

**Application in Water:** Apply in a minimum of 5 gallons of finished spray per acre with ground equipment or 1 gallon of finished spray per acre by aircraft. When applying by air, 1 quart of emulsified oil may be substituted for one quart of water in the finished spray.

**ULV Application:** Apply the labeled rate of **X198.106** in refined vegetable oil in a minimum of 1 quart of finished

spray per acre with aircraft calibrated to give adequate coverage.

**To Control Boll Weevil:** Apply **X198.106** at an interval of 3 to 4 days until pest numbers are reduced to acceptable levels. Do not exceed maximum labeled rate.

**To Control Mites and Aphids:** Apply when pests first appear. Repeat as necessary to maintain control. Do not exceed maximum labeled rate.

\*Coverage is essential for control of this pest. For heavy outbreaks, tank mix with another product that is labeled for this pest.

#### Field Corn (Grain and Silage), Popcorn, Field Corn Grown for Seed

#### At Plant Use

Pests Controlled	Rate of Application	
Armyworm spp. (true armyworm)	4.0 – 10.3 fl oz/A of product	
Common Stalk Borer		
Cutworm spp. (Army cutworm, Black cutworm)		
Seed cord maggot		
Root aphids (Corn root aphid)		
White grub		
Wireworm spp.		

#### Restrictions

PHI: Do not apply within 30 days of harvest for grain and stover and 60 days of harvest for forage.

#### **Maximum Amount per Application:**

Do not apply more than 10.3 fl oz/A of product (0.025 lb/A zeta-cypermethrin + 0.075 lb/A bifenthrin) as an atplant application.

Maximum Amount of X198.106 allowed per Year: Do not apply more than 41.2 fl oz/A of product (0.099 lb/A zeta-cypermethrin + 0.298 lb/A bifenthrin) per year including at-plant plus foliar applications for this product.

Do not make more than 4 applications per year when applications are made at the maximum rate.

Refer to the maximum usage tables when applying more than one product containing either zeta-cypermethrin or bifenthrin to this crop.

#### **REMARKS**

For Seed cord maggot, Root aphids, White grubs and Wireworms: Apply in-furrow or in a 3-4-inch T-Band (band over the open furrow) at planting in a minimum of 3-7 gallons per acre.

For Armyworm spp. and Cutworm spp: Apply at planting on the soil surface in a 5-7-inch band in a minimum of 3-7 gallons of finished spray per acre or broadcast in a minimum of 10 gallons of finished spray per acre.

Use higher labeled rate for increased residual pest control.

Row Spacing (inches)	fl oz/1000 linear feet	lb ai / 1000 linear feet
30	0.23 - 0.59	0.0006 zeta-cypermethrin + 0.0017 bifenthrin
		to

		0.0014 zeta-cypermethrin + 0.0043 bifenthrin
20	0.15 - 0.39	0.0004 zeta-cypermethrin + 0.0011 bifenthrin
		to
		0.0009 zeta-cypermethrin + 0.0028 bifenthrin
15	0.115 - 0.30	0.0003 zeta-cypermethrin + 0.0008 bifenthrin
		to
		0.0007 zeta-cypermethrin + 0.0022 bifenthrin

# Field Corn (Grain and Silage), Popcorn, Field Corn Grown for Seed.

# **Foliar Use**

Pests Controlled	Rate of Application
Army Cutworm	2.6 – 6.1 fl oz/A of product
Bean Leaf Beetle	
Common Stalk Borer	
Cutworm Species	
Flea Beetle	
Grasshoppers	
Green Cloverworm	
Hop Vine Borer	
Western Bean Cutworm	
Aphid Species	4.0 – 10.3 fl oz/A of product
Armyworm, Fall*	
Armyworm, Southern	
Armyworm, True	
Armyworm, Yellowstriped	
Cereal Leaf Beetle	
Chinch Bug	
Corn Blotch leafminer (adult)	
Corn Earworm	
Corn leaf hopper	
Corn Rootworm Adult	
Corn silk fly	
Cucumber Beetle Adult	
European Corn Borer	
False chinch bug	
Greenbug	
Hornworms	
Japanese Beetle Adult	
Meadow Spittlebug	
Sap Beetle	
Southern Corn Leaf Beetle	
Southwestern Corn Borer	
Stinkbugs	
Tobacco Budworm**	
Webworms	
Banks Grass Mite	10.3 fl oz/A of product
Carmine Mite	
Lygus Species	
Twospotted Spider Mite	
Restrictions	
1,056,166,0113	

**Maximum Amount per Application:** Do not apply more than 10.3 fl oz/A of product (0.025 lb/A zeta-cypermethrin + 0.075 lb/A bifenthrin) per application.

Maximum Amount of X198.106 allowed per Year: Do not apply more than 41.2 fl oz/A of product (0.099 lb/A zeta-cypermethrin + 0.298 lb/A bifenthrin) per year, including at-plant plus foliar applications.

Do not make more than 4 applications per year when applications are made at the maximum rate.

Refer to the maximum usage tables when applying more than one product containing either zetacypermethrin or bifenthrin to this crop.

Do not apply within 30 days of harvest for grain and stover and 60 days for forage.

Do not graze livestock in treated areas or cut treated crops for feed within 30 days of the last application. Use of ultra low volume (ULV) application on corn is prohibited.

Do not make aerial or ground applications to corn if heavy rainfall is imminent.

#### **REMARKS**

**General:** Apply in a minimum of 2 to 5 gallons of finished spray per acre by aircraft or in a minimum of 10 gallons of finished spray per acre with ground equipment. To improve control by aircraft, use 5 gallons of finished spray per acre particularly when initial populations are heavier than normal. When applying by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.

**To control ear-attacking pests:** Apply **X198.106** just before silking and repeat as necessary to maintain control. Do not exceed maximum labeled rate.

**Southwestern Corn Borer, European Corn Borer:** Make application for corn borer control with initial application at or shortly before egg hatch.

**For control of other insect pests:** Apply when pests first appear and repeat as necessary. Do not exceed maximum labeled rate.

#### For Control of Mites:

Apply for Banks Grass Mite control when colonies first form prior to leaf damage or discoloration and before dispersal above the bottom third of the plant.

For Twospotted Spider Mite and Carmine Mite control, apply when colonies first form prior to leaf damage or discoloration and before widespread mite dispersal throughout the canopy.

Higher labeled rates will be necessary for heavier initial populations and corn under heat or drought stress. Field experience with dimethoate at 0.5 lb ai/A in tank mixture has demonstrated good control under these conditions.

**For mite control in Texas, New Mexico, Oklahoma, and Arizona:** Apply in a minimum of 5 gallons of finished spray per acre by aircraft or in a minimum of 10 gallons of finished spray per acre with ground equipment.

\*Coverage is essential for control of this pest. For heavy outbreaks, tank mix with another product that is labeled for this pest.

\*\*Pyrethroid resistance is common for these pests. Please consult your local or state agricultural authority to determine if resistance pest populations are in your area. If so, refer the resistance management statement in the DIRECTION FOR USE section of this label.

# Sweet Corn (Grain and Silage), Sweet Corn Grown For Seed

#### **Foliar Use Only**

Foliar Use Only Pests Controlled	Rate of Application
Aphid spp.	4.0 – 10.3 fl oz/A of product
Army Cutworm	4.0 10.3 ii 02/11 01 product
Armyworm, Beet	
Armyworm, Fall*	
Armyworm, Fair Armyworm, Southern	
Armyworm, Southern Armyworm Species	
Armyworm, True	
Armyworm, Yellowstriped	
Cereal Leaf Beetle	
Chinch Bug	
Common Stalk Borer	
Corn blotch leafminer (adult)	
Corn Blotch learminer (adult)	
Corn Footworm Adult	
Corn Silk Fly	
Cucumber Beetle Adult	
Cutworm Species	
European Corn Borer	
False Chinch bug	
Flea Beetle	
Grasshoppers	
Greenbug	
Japanese Beetle Adult	
Leafhoppers	
Sap Beetle	
Southern Corn Leaf Beetle	
Southwestern Corn Borer	
Stinkbugs	
Webworms	
Western Bean Cutworm	
Banks Grass Mite	10.3 fl oz/A of product
Carmine Mite	
Lygus Species	
Twospotted Spider Mite	
•	

### Restrictions

**PHI:** Do not apply within 3 days of harvest

**Maximum Amount per Application:** Do not apply more than 10.3 fl oz/A of product (0.025 lb/A zeta-cypermethrin + 0.075 lb/A bifenthrin) per application.

**Maximum Amount of X198.106 allowed per Year:** Do not apply more than 27.39 fl oz/A of product (0.066 lb/A zeta-cypermethrin + 0.198 lb/A bifenthrin) per year.

Do not make more than 2 applications per year when applications are made at the maximum rate.

Refer to the maximum usage tables when applying more than one product containing either zetacypermethrin or bifenthrin to this crop.

Do not graze livestock in treated areas or cut treated crops for feed within 3 days of the last application. Apply at a minimum 3 to 5-day intervals or as needed for control.

Use of ultra low volume (ULV) application on corn is prohibited.

Do not make aerial or ground applications to corn if heavy rainfall is imminent.

#### **REMARKS**

**General:** Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 20 gallons of finished spray per acre with ground equipment. When applying by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.

**To control ear-attacking pests:** Apply **X198.106** when silking begins and repeat as necessary to maintain control. Do not exceed maximum labeled rate.

**Southwestern Corn Borer, European Corn Borer:** Make 2 applications for corn borer control with the initial application at or shortly before egg hatch.

**For control of other insect pests:** Apply when pests first appear and repeat as necessary. Do not exceed maximum labeled rate.

#### For Control of Mites:

Apply for Banks Grass Mite control when colonies first form prior to leaf damage or discoloration and before dispersal above the bottom third of the plant.

For Twospotted Spider Mite and Carmine Mite control, apply when colonies first form prior to leaf damage or discoloration and before widespread mite dispersal throughout the canopy.

Higher labeled rates will be necessary for heavier initial populations and corn under heat or drought stress.

\*Coverage is essential for control of this pest. For heavy outbreaks, tank mix with another product that is labeled for this pest.

#### **Peanut**

Pests Controlled	Rate of Application
Lesser cornstalk borer**	10.3 fl oz/A of product
Thrips (adults)	
Spider mite spp.	
Aphid spp.	4.0 – 10.3 fl oz/A of product
Armyworm, fall*	
Armyworm, southern	
Armyworm, true	
Armyworm, yellowstriped	
Bean leaf beetle	
Corn earworm	
Cutworm spp.	

Grasshopper spp.
Green cloverworm
Leafhopper spp.
Lesser cornstalk borer
Looper spp.
Red-necked peanut worm
Southern corn rootworm (adult)
Stinkbug spp.
Threecornered alfalfa hopper
Vegetable weevil
Velvetbean caterpillar
Whitefringed beetle (adult)

#### Restrictions

PHI: Do not apply within 14 days of harvest.

Application Interval: Do not make applications less than 14 days apart.

**Maximum Amount per Application:** Do not apply more than 10.3 fl oz/A of product (0.025 lb/A zeta-cypermethrin + 0.075 lb/A bifenthrin) per application.

Maximum Amount of X198.106 allowed per Year: Do not apply more than 41.2 fl oz/A of product (0.099 lb/A zeta-cypermethrin + 0.298 lb/A bifenthrin) per year.

Do not make more than 4 applications per year when applications are made at the maximum rate.

Refer to the maximum usage tables when applying more than one product containing either zetacypermethrin or bifenthrin to this crop.

Do not graze livestock in treated area.

Do not use treated vines or hay for animal feed.

Do not feed green immature plants and peanut hay to livestock.

### Remarks

Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels.

Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons of finished spray per acre by ground and 2 gallons of finished spray per acre by air).

Follow appropriate spray drift precautions on this label.

\*Coverage is essential for control of this pest. For heavy outbreaks, tank mix with another product that is labeled for this pest.

\*\* Aids in control.

#### **Potato**

2.6 – 6.1 fl oz/A of product 4.0 – 10.3 fl oz/A of product
4.0 – 10.3 fl oz/A of product
4.0 – 10.3 fl oz/A of product
4.0 – 10.3 fl oz/A of product
10.3 fl oz/A of product

# Restrictions

PHI: Do not apply within 21 days of harvest.

Application Interval: Do not make applications less than 21 days apart.

**Maximum Amount per Application:** Do not apply more than 10.3 fl oz/A of product (0.025 lb/A zeta-cypermethrin + 0.075 lb/A bifenthrin) per application.

Maximum Amount of X198.106 allowed per Year: Do not apply more than 46.35 fl oz/A of product (0.112 lb/A zeta-cypermethrin + 0.336 lb/A bifenthrin) per year, including soil applications.

Do not make more than 2 foliar applications per year.

Refer to the maximum usage tables when applying more than one product containing either zetacypermethrin or bifenthrin to this crop.

Leaves of Root and Tuber vegetables (except sugar beet tops) cannot be used for food or feed.

#### Remarks

Apply as required by scouting. Base timing and frequency of applications on insect populations reaching locally determined economic threshold levels.

Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons of finished spray per acre by ground and 3 gallons of finished spray per acre by air). Follow appropriate spray drift precautions on this label.

- \*Coverage is essential for control of this pest. For heavy outbreaks, tank mix with another product that is labeled for this pest.
- \*\* For Tuberworm control apply prior to harvest or senesce to adults and larvae tuberworms when economic thresholds are met.

# Soybeans

# **Foliar Use**

Pests Controlled	Rate of Application
Bean Leaf Beetle	2.6 – 6.1 fl oz/A of product
Cutworms	
Flea beetle	
Grasshoppers	
Green cloverworm	
Painted Lady (Thistle) Caterpillar	
Silverspotted Skipper	
Alfalfa Caterpillar	
Armyworm, fall*	
Armyworm, southern	
Armyworm, true	
Armyworm, yellowstriped	
Blister Beetle spp.	
Corn Earworm	
Corn Rootworm Adult	
Cowpea Curculio	
Cucumber Beetle Adult	
Dectes Stem Borer	
European Corn Borer	
False Chinch Bug	
Grape colaspsis (adult)	
Hornworms	
Imported Cabbageworm	
Japanese beetle Adult	
Leaf Skeletonizer spp.	
Leafhoppers	
Leafminers Adults	
Lesser Cornstalk Borer	
Loopers	
Mexican Bean Beetle	
Pea Leaf Weevil	
Saltmarsh Caterpillar	
Seedcorn Maggot Adult	
Soybean Aphid	
Spittlebug	
Stink Bug	
Three-Cornered Alfalfa Hopper	
Thrips	
Tobacco Budworm**	
Velvetbean Caterpillar	
Webworm	
Woollybear Caterpillar	

Lygus Species	10.3 fl oz/A of product
Whitefly	
Thrips	
Two Spotted Spider Mite	

#### Restrictions

**PHI:** Do not apply within 21 days of harvest.

**Maximum Amount per Application:** Do not apply more than 10.3 fl oz/A of product (0.025 lb/A zeta-cypermethrin + 0.075 lb/A bifenthrin) per application.

Maximum Amount of X198.106 allowed per Year: Do not apply more than 41.2 fl oz/A of product (0.099 lb/A zeta-cypermethrin + 0.298 lb/A bifenthrin) per year.

Do not make more than 4 applications per year when applications are made at the maximum rate.

Refer to the maximum usage tables when applying more than one product containing either zeta-cypermethrin or bifenthrin to this crop.

Do not make applications less than 30 days apart.

Do not graze or harvest treated soybean forage, straw, or hay for livestock feed.

#### **REMARKS**

Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons of finished spray per acre by ground and 2 gallons of finished spray per acre by air).

Thorough coverage is essential to achieve control.

Apply as required by scouting. Base timing and frequency of applications on insect populations reaching locally determined economic threshold levels.

- \*Coverage is essential for control of this pest. For heavy outbreaks, tank mix with another product that is labeled for this pest.
- \*\*Pyrethroid resistance is common for this pest. Please consult your local or state agricultural authority to determine if resistance pest populations are in your area. If so, refer the resistance management statement in the DIRECTION FOR USE section of this label.

#### Soybean

#### **At-Plant Use**

Pests Controlled	Rate of Application
Armyworm spp. (true armyworm)	4.1 – 10.3 fl oz/A of product
Cutworm spp. (Army cutworm)	
Grape colapsis	
Seed corn maggot	
Root aphids	
White grub	
Wireworm spp.	

#### Restrictions

PHI: Do not apply within 21 days of harvest.

**Maximum Amount of X198.106 allowed per Application:** Do not apply more than 10.3 fl oz/A of product (0.025 lb/A zeta-cypermethrin + 0.075 lb/A bifenthrin) per application.

**Maximum Amount of X198.106 allowed per Year:** Do not apply more than 41.2 fl oz/A of product (0.099 lb/A zeta-cypermethrin + 0.298 lb/A bifenthrin) per year.

Do not make more than 4 applications per year when applications are made at the maximum rate.

#### **REMARKS**

For Seed corn maggot, Root aphids, White grubs and Wireworms: Apply in-furrow or in a 3-4 inch T-Band (band over the open furrow) at planting in a minimum of 2-7 gallons per acre.

For Armyworm spp. and Cutworm spp: Apply at planting on the soil surface in a 5-7-inch band in a minimum of 2-7 gallons per acre or broadcast in a minimum of 10 gallons per acre.

Use higher labeled dosage for increased residual pest control

Row spacing (inches)	fl oz / 1000 linear feet	lb ai / 1000 linear feet
30	0.23 - 0.59	0.0006 zeta-cypermethrin + 0.0017 bifenthrin
		to
		0.0014 zeta-cypermethrin + 0.0043 bifenthrin
20	0.16 - 0.39	0.0004 zeta-cypermethrin + 0.0012 bifenthrin
		to
		0.0009 zeta-cypermethrin + 0.0028 bifenthrin
15	0.12 - 0.29	0.0003 zeta-cypermethrin + 0.0009 bifenthrin
		to
		0.0007 zeta-cypermethrin + 0.0021 bifenthrin

# Soybeans PPI and PRE Uses

Pests Controlled	Rate of Application	
Pre-Plant Incorporated (PPI)		
Black Cutworm	4.1 – 10.3 fl oz/A of product	
White Grub		
Wireworm		
Seedcorn Maggot		
Armyworm spp.		
Pre-Emerg	ence (PRE)	
Black Cutworm	2.6 – 6.1 fl oz/A of product	
Armyworm spp.		
Stalkborer		

#### Restrictions

PHI: Do not apply within 21 days of harvest.

**Maximum Amount of X198.106 allowed per Application:** Do not apply more than 10.3 fl oz/A of product (0.025 lb/A zeta-cypermethrin + 0.075 lb/A bifenthrin) per application.

**Maximum Amount of X198.106 allowed per Year:** Do not apply more than 41.2 fl oz/A of product (0.099 lb/A zeta-cypermethrin + 0.298 lb/A bifenthrin) per year.

Do not make more than 4 applications per year when applications are made at the maximum rate.

#### **REMARKS**

For **PPI treatments**, **X198.106** can be tank mixed and applied with PPI herbicides. Do not incorporate **X198.106** any deeper than the intended planting depth and no deeper than 3 inches. Incorporate to a depth close to the intended seed planting depth.

For PRE treatments, X198.106 may be applied and can be tank mixed and applied with PRE herbicides.

#### **VEGETABLES**

#### **Cucurbits**

Cantaloupes, Citron melon; muskmelon; watermelon Chayote (fruit); Chinese waxgourd; Cucumber; gherkin; gourd, edible; Momordica spp.; pumpkin; squash, summer; squash, winter.

Pests Controlled	Rate of Application
Aphid spp.	4.0 – 10.3 fl oz/A of product
Armyworm, fall*	
Armyworm, southern	
Armyworm, true	
Armyworm, yellowstriped	
Bagrada bug	
Cabbage looper	
Corn earworm	
Cucumber beetle	
Cutworm spp.	
Grasshopper	
Leafhopper spp.	

10.3 fl oz/A of product

#### Restrictions

**PHI:** Do not apply within 3 days of harvest.

**Application Interval:** Do not make applications less than 7 days apart.

**Maximum Amount per Application:** Do not apply more than 10.3 fl oz/A of product (0.025 lb/A zeta-cypermethrin + 0.075 lb/A bifenthrin) per application.

Maximum Amount of X198.106 allowed per Year: Do not apply more than 41.2 fl oz/A of product (0.099 lb/A zeta-cypermethrin + 0.298 lb/A bifenthrin) per year.

Do not make more than 2 applications after bloom.

Refer to the maximum usage tables when applying more than one product containing either zetacypermethrin or bifenthrin to this crop.

#### Remarks

Apply in a minimum of 5 gallons of finished spray per acre by air or in a minimum of 20 gallons of finished spray per acre with ground equipment. When applying by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.

\*Coverage is essential for control of this pest. For heavy outbreaks, tank mix with another product that is labeled for this pest.

Eggplant, Okra, Pepper (Bell & Non-Bell) and Pepino

Pests Controlled	Rate of Application
Armyworm, Fall*	4.0 – 10.3 fl oz/A of product
Armyworm, Southern	
Armyworm, true	
Armyworm, Yellowstriped	
Bagrada bug	
Cabbage Looper	
Celery Leaf Tier	
Colorado Potato Beetle**	
Corn Earworm	
Cucumber Beetle	
Cutworm Species	
European Corn Borer	
Flea Beetle	

<sup>\*\*</sup>Pyrethroid resistance is common for this pest. Please consult your local or state agricultural authority to determine if resistance pest populations are in your area. If so, refer the resistance management statement in the DIRECTION FOR USE section of this label.

Garden Webworm	
Grasshoppers	
Hornworms	
Leafhopper Species	
Meadow Spittlebug	
Pepper Maggot Adult	
Pepper Weevil	
Southwestern Corn Borer	
Stink Bug	
Tobacco Budworm**	
Tomato Fruitworm	
Tomato Hornworm	
Tomato Pinworm	
Vegetable Leafminer	
Banks Grass Mite	10.3 fl oz/A of product
Carmine Mite	
Lygus Species	
Pacific Spider Mite	
Thrips Species	
Psyllid Species	
Twospotted Spider Mite	
Whitefly	

#### Restrictions

**PHI:** Do not apply within 7 days of harvest.

**Maximum Amount per Application:** Do not apply more than 10.3 fl oz/A of product (0.025 lb/A zeta-cypermethrin + 0.075 lb/A bifenthrin) per application.

**Maximum Amount of X198.106 allowed per Year:** Do not apply more than 27.39 fl oz/A per (0.066 lb/A zeta-cypermethrin + 0.198 lb/A bifenthrin) year.

Do not make more than 2 applications per year when applications are made at the maximum rate.

Refer to the maximum usage tables when applying more than one product containing either zeta-cypermethrin or bifenthrin to this crop.

Do not make applications less than 7 days apart.

#### **REMARKS**

Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 10 gallons of finished spray per acre with ground equipment. When applying by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray.

Thorough coverage is essential to achieve control.

- \*Coverage is essential for control of this pest. For heavy outbreaks, tank mix with another product that is labeled for this pest is recommended for control.
- \*\*Pyrethroid resistance is common for this pest. Please consult your local or state agricultural authority to determine if resistance pest populations are in your area. If so, refer the resistance management statement in the DIRECTION FOR USE section of this label.

#### Tomato

Pests Controlled	Rate of Application
Armyworm, Fall*	4.0 – 10.3 fl oz/A of product
Armyworm, Southern	
Armyworm, Yellowstriped	
Armyworm, true	
Bagrada bug	
Cabbage Looper	
Celery Leaf Tier	
Colorado Potato Beetle**	
Corn Earworm	
Cucumber Beetle	
Cutworm Species	
European Corn Borer	
Flea Beetle	
Garden Webworm	
Grasshoppers	
Hornworms	
Leafhopper Species	
Meadow Spittlebug	
Pepper Maggot Adult	
Pepper Weevil	
Southwestern Corn Borer	
Stink Bug	
Tobacco Budworm**	
Tomato Fruitworm	
Tomato Hornworm	
Tomato Pinworm	
Vegetable Leafminer	
Banks Grass Mite	10.3 fl oz/A of product
Carmine Mite	
Lygus Species	
Pacific Spider Mite	
Psyllid species	
Thrips Species	
Twospotted Spider Mite	
Whitefly	
Restrictions	I

#### Restrictions

**PHI:** Do not apply within 1 day of harvest.

**Maximum Amount per Application:** Do not apply more than 10.3 fl oz/A (0.025 lb/A zeta-cypermethrin + 0.075 lb/A bifenthrin) of product per application.

**Maximum Amount of X198.106 allowed per Year:** Do not apply more than 43.26 fl oz/A of product (0.104 lb/A zeta-cypermethrin + 0.313 lb/A bifenthrin) per year.

Do not make more than 4 applications per year when applications are made at the maximum rate.

Refer to the maximum usage tables when applying more than one product containing either zeta-cypermethrin or bifenthrin to this crop.

Do not make applications less than 10 days apart.

#### **REMARKS**

Apply in water as necessary for insect control using a minimum of 15 gallons of finished spray per acre with ground equipment and 2 gallons of finished spray per acre by air.

- \*Coverage is essential for control of this pest. For heavy outbreaks, tank mix with another product that is labeled for this pest.
- \*\*Pyrethroid resistance is common for this pest. Please consult your local or state agricultural authority to determine if resistance pest populations are in your area. If so, refer the resistance management statement in the DIRECTION FOR USE section of this label.

#### **Head Lettuce**

Pests Controlled	Rate of Application
Aphid Species	4.0 – 10.3 fl oz/A of product
Armyworm, fall*	
Armyworm, southern	
Armyworm, true	
Armyworm, yellowstriped	
Bagrada bug	
Chinch bug	
Corn Earworm	
Crickets	
Cucumber Beetle	
Cutworm Species	
Diamondback Moth**	
Flea Beetle	
Imported Cabbageworm	
Leafhopper Species	
Leafminer (adults)	
Loopers	
Saltmarsh Caterpillar	
Stink Bug	
Tobacco Budworm**	
Carmine Mite	10.3 fl oz/A of product
Lygus Species	
Onion Thrips	
Twospotted Spider Mite	
Whitefly	
Restrictions	

#### Restrictions

**PHI:** Do not apply within 7 days of harvest.

**Maximum Amount per Application:** Do not apply more than 10.3 fl oz/A of product (0.025 lb/A zeta-cypermethrin + 0.075 lb/A bifenthrin) per application.

**Maximum Amount of X198.106 allowed per Year:** Do not apply more than 46.35 fl oz/A of product (0.112 lb/A zeta-cypermethrin + 0.336 lb/A bifenthrin) per year.

Do not make more than 4 applications per year when applications are made at the maximum rate.

Refer to the maximum usage tables when applying more than one product containing either zeta-cypermethrin or bifenthrin to this crop.

Do not make applications less than 7 days apart.

#### **REMARKS**

Apply in water as necessary for insect control using a minimum of 15 gallons of finished spray per acre with ground equipment and 5 gallons of finished spray per acre by air. When applying by air, 1to 2 quarts of emulsified oil may be substituted for 1to 2 quarts of water in the finished spray.

Thorough coverage is essential to achieve control.

- \*Coverage is essential for control of this pest. For heavy outbreaks, tank mix with another product that is labeled for this pest.
- \*\*Pyrethroid resistance is common for this pest. Please consult your local or state agricultural authority to determine if resistance pest populations are in your area. If so, refer the resistance management statement in the DIRECTION FOR USE section of this label.

#### **Head & Stem Brassica**

Broccoli; Chinese Broccoli (gai lon, white flowering broccoli); Brussels Sprouts; Cauliflower, Cavalo broccoli; Kohlrabi; Cabbage; Chinese Cabbage (napa)

Pests Controlled	Rate of Application
Aphid Species	4.0 – 10.3 fl oz/A of product
Armyworm, fall*	
Armywworm, southerm	
Armyworm, true	
Armyworm, Yellowstriped	
Bagrada bug	
Click Beetle (wireworm adult)	
Corn Earworm	
Crickets	
Cucumber Beetle	
Cutworm Species	
Diamondback Moth**	
Flea Beetle	
Grasshoppers	
Imported Cabbageworm	
Leafhopper Species	
Leafminer Species	
Loopers	
Saltmarsh Caterpillar	
Southern Cabbageworm	
Stink Bug	
Tobacco Budworm**	
Banks Grass Mite	10.3 fl oz/A of product
Cabbage Webworm	
Carmine Mite	
Lygus Species	
Pacific Spider Mite	
Thrips Species	

Twospotted Spider Mite	
Whitefly	

#### Restrictions

**PHI:** Do not apply within 7 days of harvest.

**Maximum Amount per Application:** Do not apply more than 10.3 fl oz/A (0.025 lb/A zeta-cypermethrin + 0.075 lb/A bifenthrin) of product per application.

**Maximum Amount of X198.106 allowed per Year:** Do not apply more than 46.35 fl oz/A of product (0.112 lb/A zeta-cypermethrin + 0.336 lb/A bifenthrin) per year.

Do not make more than 4 applications after bloom.

Refer to the maximum usage tables when applying more than one product containing either zetacypermethrin or bifenthrin to this crop.

Do not make applications less than 7 days apart.

#### **REMARKS**

Apply in a minimum of 5 gallons of finished spray per acre by air or in a minimum of 15 gallons of finished spray per acre with ground equipment. When applying by air, 1to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray.

Thorough coverage is essential to achieve control.

- \*Coverage is essential for control of this pest. For heavy outbreaks, tank mix with another product that is labeled for this pest.
- \*\*Pyrethroid resistance is common for this pest. Please consult your local or state agricultural authority to determine if resistance pest populations are in your area. If so, refer the resistance management statement in the DIRECTION FOR USE section of this label.

#### Leafy Brassica - Crop Subgroup 4-16B

Broccoli raab; cabbage, Chinese (bokchoy); collards; kale; mizuna; mustard greens; mustard spinach; rape greens

Pests Controlled	Rate of Application
Aphid spp.	4.0 – 10.3 fl oz/A of product
Armyworm, fall*	
Armyworm, southern	
Armyworm, true	
Armyworm, yellowstriped	
Bagrada bug	
Cabbageworm	
Click beetle (wireworm adult)	
Corn earworm	
Crickets	
Cucumber beetle (adult)	
Cutworm spp.	
Diamondback moth**	
Flea beetle spp.	
Grasshopper spp.	

Imported cabbageworm	
Japanese beetle (adult)	
Leafhopper spp.	
Leafminer (adult)	
Looper spp.	
Saltmarsh caterpillar	
Stinkbug spp.	
Thrips	
Tobacco budworm**	
Wireworm (adult)	
Carmine mite	10.3 fl oz/A of product
Plant bug spp.	
Pacific spider mite	
Thrips	
Twospotted spider mite	

#### Restrictions

**PHI:** Do not apply within 7 days of harvest.

**Application Interval:** Do not make applications less than 7 days apart.

**Maximum Amount per Application:** Do not apply more than 10.3 fl oz/A of product (0.025 lb/A zeta-cypermethrin + 0.075 lb/A bifenthrin) per application.

**Maximum Amount of X198.106 allowed per Year:** Do not apply more than 46.35 fl oz/A of product (0.112 lb/A zeta-cypermethrin + 0.336 lb/A bifenthrin) per year.

Do not make more than 4 applications per year when applications are made at the maximum rate.

Refer to the maximum usage tables when applying more than one product containing either zeta-cypermethrin or bifenthrin to this crop.

#### Remarks

Apply as required by scouting. Base timing and frequency of applications on insect populations reaching locally determined economic thresholds.

Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 15 gallons of finished spray per acre by ground and 5 gallons of finished spray per acre by air).

Follow appropriate spray drift precautions on this label.

- \*Coverage is essential for control of this pest. For heavy outbreaks, tank mix with another product that is labeled for this pest.
- \*\*Pyrethroid resistance is common for this pest. Please consult your local or state agricultural authority to determine if resistance pest populations are in your area. If so, refer the resistance management statement in the DIRECTION FOR USE section of this label.

#### **Dried and Succulent Peas and Beans (except Soybeans)**

Succulent Edible-Podded Pea and Bean or Succulent Shelled Pea and Bean Dwarf Pea; Edible-pod Pea; Snow Pea; Sugar Snap Pea; Pigeon pea; Soybean (immature seed); Swordbean; English Pea; Garden Pea; Green Pea; Runner Bean; Snap Bean; Wax Bean; Asparagus Bean; Chinese Longbean; Moth Bean; Yardlong Bean; Jackbean; Lima Bean (Green); Broad Bean (Succulent); Blackeyed Pea; Southern Pea; Cowpea.

**Dried Shelled Pea and Bean (except Soybean)** Broad Bean (Fava Bean); Blackeyed Pea; Southern Pea; Grain Lupin; Sweet Lupin; White Lupin; White Sweet Lupin; Field Bean; Kidney Bean; Lima Bean (Dry); Navy Bean; Pinto Bean; Tepary Bean; Adzuki Bean; Catjang; Cowpea; Crowder Pea; Moth Bean; Mung Bean; Rice Bean; Urd Bean; Chickpea (Garbanzo Bean); Guar; Lablab bean; Lentil; Field pea; Pigeon Pea.

Pests Controlled	Rate of Application
Alfalfa Caterpillar	4.0 – 10.3 fl oz/A of product
Aphid Spp.	·
Armyworm, Fall*	
Armyworm, Southern	
Armyworm, True	
Armyworm, Yellowstriped	
Bagrada bug	
Bean Leaf Beetle	
Blister Beetle Spp.	
Chinch bug	
Corn Earworm	
Corn Rootworm (adult)	
Cowpea Curculio	
Cucumber beetle (adult)**	
Cutworm spp.	
Dectes stem borer (adult)**	
European Corn Borer	
False Chinch Bug	
Flea Beetle spp.	
Grasshopper spp.	
Green Cloverworm	
Hornworm spp.	
Imported Cabbageworm	
Japanese beetle (Adult)	
Leaf Skeletonizer spp.	
Leafhopper spp.	
Leafminer spp. (adult)	
Lesser Cornstalk Borer	
Looper spp.	
Mexican Bean Beetle	
Painted Lady (Thistle) Caterpillar	
Pea Leaf Weevil	
Pea seed weevil	
Saltmarsh Caterpillar	
Sap Beetle	
Seedcorn Beetle	
Seedcorn Maggot	
Silverspotted Skipper Southwest Corn Borer	
Spittlebug	
Stinkbug spp.	

Threecornered alfalfa hopper	
Tobacco Budworm*	
Velvetbean Caterpillar	
Webworm Spp.	
Western Bean Cutworm	
Banks Grass Mite	10.3 fl oz/A of product
Carmine Mite	
Lygus Species	
Thrips Species	
Twospotted Spider Mite	
Whitefly	

#### Restrictions

#### Succulent Edible-Podded Pea and Bean or Succulent Shelled Pea and Bean:

**PHI:** Do not apply within 3 days of harvest.

**Application Interval:** Do not make applications less than 5 days apart.

#### **Dried Shelled Pea and Bean (except Soybean):**

**PHI:** Do not apply within 21 days of harvest.

**Application Interval:** Do not make applications less than 7 days apart.

**Maximum Amount per Application:** Do not apply more than 10.3 fl oz/A of product (0.025 lb/A zeta-cypermethrin + 0.075 lb/A bifenthrin) per application.

**Maximum Amount of X198.106 allowed per Year:** Do not apply more than 27.39 fl oz/A of product (0.066 lb/A zeta-cypermethrin + 0.198 lb/A bifenthrin) per year.

Do not make more than 2 applications per year when applications are made at the maximum rate.

Refer to the maximum usage tables when applying more than one product containing either zeta-cypermethrin or bifenthrin to this crop.

#### REMARKS

Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 10 gallons of finished spray per acre with ground equipment. When applying by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray.

<sup>\*</sup>Coverage is essential for control of this pest. For heavy outbreaks, tank mix with another product that is labeled for this pest.

<sup>\*\*</sup>Pyrethroid resistance is common for this pest. Please consult your local or state agricultural authority to determine if resistance pest populations are in your area. If so, refer the resistance management statement in the DIRECTION FOR USE section of this label.

Root and Tuber Vegetables – Crop Group 1 (except Sugar Beet, Garden Beet and Potato): Arracacha; Arrowroot; Artichoke (Chinese and Jerusalem); Edible Burdock; Edible Canna; Carrot; Cassava (Bitter and Sweet); Celeriac (Celery Root); Chayote (Root); Turnip-Rooted Chervil; Chicory; Chufa; Dasheen (Taro); Ginger; Ginseng; Horseradish; Leren; Turnip-Rooted Parsley; Parsnip; Oriental Radish (Daikon); Rutabaga; Salsify (Oyster Plant); Black Salsify; Spanish Salsify; Skirret; Sweet Potato; Tanier (Cocoyam); Turmeric; Turnip; Yam Bean; and Yam (True)

Cutworms Flea Beetle Grasshoppers  Aphids Armyworm, fall* Armyworm, southern Armyworm, yellowstriped Bagrada bug Banded Cucumber beetle Black flea beetle Chinch bug Colorado Potato Beetle Cucumber beetle Adult European cornborer False chinch bug Grasshopper spp. Japanese beetle June beetle Loopers Potato leafhopper Sugarcane beetle Sweetpotato flea beetle Sweetpotato flea beetle Sweetpotato wevil Adult Potato Tuberworm** Rootworm spp. (adults) Lygus species  10.3 fl oz/A of product	Pests Controlled	Rate of Application
Grasshoppers  Aphids  Aphids  Armyworm, fall*  Armyworm, southern  Armyworm, true  Armyworm, yellowstriped  Bagrada bug  Banded Cucumber beetle  Black flea beetle  Chinch bug  Colorado Potato Beetle  Cucumber beetle Adult  European cornborer  False chinch bug  Grasshopper spp.  Japanese beetle  June beetle  Loopers  Potato leafhopper  Sugarcane beetle  Sweetpotato flea beetle  Sweetpotato weevil Adult  Potato Tuberworm**  Rootworm spp. (adults)  Lygus species  4.0 – 10.3 fl oz/A of product	Cutworms	2.6 – 6.1 fl oz/A of product
Aphids Armyworm, fall* Armyworm, southern Armyworm, true Armyworm, yellowstriped Bagrada bug Banded Cucumber beetle Black flea beetle Chinch bug Colorado Potato Beetle Cucumber beetle Adult European cornborer False chinch bug Grasshopper spp. Japanese beetle June beetle Loopers Potato leafhopper Sugarcane beetle Sweetpotato flea beetle Sweetpotato weevil Adult Potato Tuberworm** Rootworm spp. (adults) Lygus species  4.0 – 10.3 fl oz/A of product	Flea Beetle	
Armyworm, fall* Armyworm, southern Armyworm, true Armyworm, yellowstriped Bagrada bug Banded Cucumber beetle Black flea beetle Chinch bug Colorado Potato Beetle Cucumber beetle Adult European cornborer False chinch bug Grasshopper spp. Japanese beetle June beetle Loopers Potato leafhopper Sugarcane beetle Sweetpotato flea beetle Sweetpotato weevil Adult Potato Tuberworm** Rootworm spp. (adults) Lygus species  Armyworm, southern	Grasshoppers	
Armyworm, southern Armyworm, true Armyworm, yellowstriped Bagrada bug Banded Cucumber beetle Black flea beetle Chinch bug Colorado Potato Beetle Cucumber beetle Adult European cornborer False chinch bug Grasshopper spp. Japanese beetle June beetle Loopers Potato leafhopper Sugarcane beetle Sweetpotato flea beetle Sweetpotato weevil Adult Potato Tuberworm** Rootworm spp. (adults) Lygus species  10.3 fl oz/A of product	Aphids	4.0 – 10.3 fl oz/A of product
Armyworm, true Armyworm, yellowstriped Bagrada bug Banded Cucumber beetle Black flea beetle Chinch bug Colorado Potato Beetle Cucumber beetle Adult European cornborer False chinch bug Grasshopper spp. Japanese beetle June beetle Loopers Potato leafhopper Sugarcane beetle Sweetpotato flea beetle Sweetpotato weevil Adult Potato Tuberworm** Rootworm spp. (adults) Lygus species  Automatical State of Control of Control  Lygus species  Barcane beetle Barcane beetle Sweetpotato weevil Adult Potato Tuberworm** Rootworm spp. (adults)	Armyworm, fall*	
Armyworm, yellowstriped Bagrada bug Banded Cucumber beetle Black flea beetle Chinch bug Colorado Potato Beetle Cucumber beetle Adult European cornborer False chinch bug Grasshopper spp. Japanese beetle June beetle Loopers Potato leafhopper Sugarcane beetle Sweetpotato flea beetle Sweetpotato weevil Adult Potato Tuberworm** Rootworm spp. (adults) Lygus species  Adult  Barrada bug	Armyworm, southern	
Bagrada bug Banded Cucumber beetle Black flea beetle Chinch bug Colorado Potato Beetle Cucumber beetle Adult European cornborer False chinch bug Grasshopper spp. Japanese beetle June beetle Loopers Potato leafhopper Sugarcane beetle Sweetpotato flea beetle Sweetpotato weevil Adult Potato Tuberworm** Rootworm spp. (adults) Lygus species  Bagrada bug Bagrada bug Bagrada beetle Bucker Bagrada bug Bagrada beetle	Armyworm, true	
Banded Cucumber beetle Black flea beetle Chinch bug Colorado Potato Beetle Cucumber beetle Adult European cornborer False chinch bug Grasshopper spp. Japanese beetle June beetle Loopers Potato leafhopper Sugarcane beetle Sweetpotato flea beetle Sweetpotato weevil Adult Potato Tuberworm** Rootworm spp. (adults) Lygus species  10.3 fl oz/A of product	Armyworm, yellowstriped	
Black flea beetle Chinch bug Colorado Potato Beetle Cucumber beetle Adult European cornborer False chinch bug Grasshopper spp. Japanese beetle June beetle Loopers Potato leafhopper Sugarcane beetle Sweetpotato flea beetle Sweetpotato weevil Adult Potato Tuberworm** Rootworm spp. (adults) Lygus species  Donato Beetle Loopers 10.3 fl oz/A of product	Bagrada bug	
Chinch bug Colorado Potato Beetle Cucumber beetle Adult European cornborer False chinch bug Grasshopper spp. Japanese beetle June beetle Loopers Potato leafhopper Sugarcane beetle Sweetpotato flea beetle Sweetpotato weevil Adult Potato Tuberworm** Rootworm spp. (adults) Lygus species  10.3 fl oz/A of product	Banded Cucumber beetle	
Colorado Potato Beetle Cucumber beetle Adult European cornborer False chinch bug Grasshopper spp. Japanese beetle June beetle Loopers Potato leafhopper Sugarcane beetle Sweetpotato flea beetle Sweetpotato weevil Adult Potato Tuberworm** Rootworm spp. (adults) Lygus species  Cucumber Beetle  Lucumber Beetle  Lucumber Beetle  Sweetle Beetle  Lucumber Beetle  Lucu	Black flea beetle	
Cucumber beetle Adult European cornborer False chinch bug Grasshopper spp. Japanese beetle June beetle Loopers Potato leafhopper Sugarcane beetle Sweetpotato flea beetle Sweetpotato weevil Adult Potato Tuberworm** Rootworm spp. (adults) Lygus species  European cornborer  European cornb	Chinch bug	
European cornborer False chinch bug Grasshopper spp. Japanese beetle June beetle Loopers Potato leafhopper Sugarcane beetle Sweetpotato flea beetle Sweetpotato weevil Adult Potato Tuberworm** Rootworm spp. (adults) Lygus species  European cornborer  False chinch bug Grasshopper Sugarcane beetle Sweetle Sweetle Sweetpotato flea beetle Sweetpotato weevil Adult Potato Tuberworm** Rootworm spp. (adults)	Colorado Potato Beetle	
False chinch bug Grasshopper spp. Japanese beetle June beetle Loopers Potato leafhopper Sugarcane beetle Sweetpotato flea beetle Sweetpotato weevil Adult Potato Tuberworm** Rootworm spp. (adults) Lygus species  False chinch bug Grasshopper  Logural Spp.  10.3 fl oz/A of product	Cucumber beetle Adult	
Grasshopper spp.  Japanese beetle  June beetle  Loopers  Potato leafhopper  Sugarcane beetle  Sweetpotato flea beetle  Sweetpotato weevil Adult  Potato Tuberworm**  Rootworm spp. (adults)  Lygus species  Grasshopper spp.  Japanese beetle  Sweetle  Sugarcane beetle  Sweetpotato flea beetle  Sweetpotato weevil Adult  Potato Tuberworm**	European cornborer	
Japanese beetle June beetle Loopers Potato leafhopper Sugarcane beetle Sweetpotato flea beetle Sweetpotato weevil Adult Potato Tuberworm** Rootworm spp. (adults) Lygus species  Japanese beetle June beetle Loopers  Potato leafhopper Sugarcane beetle Sweetpotato flea beetle Sweetpotato weevil Adult Potato Tuberworm** Rootworm spp. (adults)	False chinch bug	
June beetle Loopers Potato leafhopper Sugarcane beetle Sweetpotato flea beetle Sweetpotato weevil Adult Potato Tuberworm** Rootworm spp. (adults) Lygus species  10.3 fl oz/A of product	Grasshopper spp.	
Loopers Potato leafhopper Sugarcane beetle Sweetpotato flea beetle Sweetpotato weevil Adult Potato Tuberworm** Rootworm spp. (adults) Lygus species  10.3 fl oz/A of product	· ·	
Potato leafhopper Sugarcane beetle Sweetpotato flea beetle Sweetpotato weevil Adult Potato Tuberworm** Rootworm spp. (adults) Lygus species  10.3 fl oz/A of product	June beetle	
Sugarcane beetle Sweetpotato flea beetle Sweetpotato weevil Adult Potato Tuberworm** Rootworm spp. (adults)  Lygus species  10.3 fl oz/A of product	Loopers	
Sweetpotato flea beetle Sweetpotato weevil Adult Potato Tuberworm** Rootworm spp. (adults)  Lygus species  10.3 fl oz/A of product	· ·	
Sweetpotato weevil Adult  Potato Tuberworm**  Rootworm spp. (adults)  Lygus species  10.3 fl oz/A of product		
Potato Tuberworm**  Rootworm spp. (adults)  Lygus species  10.3 fl oz/A of product	·	
Rootworm spp. (adults)  Lygus species  10.3 fl oz/A of product	· ·	
Lygus species 10.3 fl oz/A of product		
1.5		
Two Spotted Spider Mite	, , ,	10.3 fl oz/A of product
	Two Spotted Spider Mite	

#### Restrictions

PHI: Do not apply within 21 days of harvest.

Do not make applications less than 21 days apart.

**Maximum Amount per Application:** Do not apply more than 10.3 fl oz/A of product (0.025 lb/A zeta-cypermethrin + 0.075 lb/A bifenthrin) per application.

**Maximum Amount of X198.106 allowed per Year:** Do not apply more 46.35 fl oz/A of product (0.112 lb/A zeta-cypermethrin + 0.336 lb/A bifenthrin) per year, including soil application.

Do not make more than 2 foliar applications per year.

Refer to the maximum usage tables when applying more than one product containing either zeta-cypermethrin or bifenthrin to this crop.

Leaves of Root and Tuber Vegetables (except sugar beet tops) cannot be used for food or feed.

#### **REMARKS**

Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 25 gallons of finished spray per acre by ground and 3 gallons of finished spray per acre by air).

Thorough coverage is essential to achieve control.

Apply as required by scouting. Base timing and frequency of applications on insect populations reaching locally determined economic threshold levels.

- \* Please consult your local or state agricultural authority to determine if resistance pest populations are in your area. Refer to the resistance management statement in the DIRECTIONS FOR USE section of this label.
- \*Coverage is essential for control of this pest. For heavy outbreaks, tank mix with another product that is labeled for this pest.
- \*\*Pyrethroid resistance is common for this pest. Please consult your local or state agricultural authority to determine if resistance pest populations are in your area. If so, refer the resistance management statement in the DIRECTION FOR USE section of this label.
- \*\* For Tuberworm control (adults and larvae) apply prior to harvest or senesce when economic thresholds are met.

#### **Garden Beet**

Pests Controlled	Rate of Application
Cutworms	2.6 – 6.1 fl oz/A of product
Flea Beetle	
Grasshoppers	
Aphids	4.0 – 10.3 fl oz/A of product
Armyworm, fall*	
Armyworm, southern	
Armyworm, true	
Armyworm, yellowstriped	
Bagrada bug	
Banded Cucumber beetle	
Black flea beetle	
Chinch bug	
Colorado Potato Beetle	
Cucumber beetle Adult	
European corn borer	
False chinch bug	
Grasshopper spp.	
Japanese beetle	
June beetle	
Loopers	
Potato leafhopper	
Sugarcane beetle	
Sweetpotato flea beetle	
Sweetpotato weevil Adult	
Potato Tuberworm**	
Rootworm spp. (adults)	

Lygus species	10.3 fl oz/A of product
Two Spotted Spider Mite	

#### Restrictions

PHI: Do not apply within 1 day of harvest.

Do not make applications less than 7 days apart.

**Maximum Amount per Application:** Do not apply more than 10.3 fl oz/A of product (0.025 lb/A zeta-cypermethrin + 0.075 lb/A bifenthrin) per application.

Maximum Amount of X198.106 allowed per Season: Do not apply more 46.35 fl oz/A of product (0.112 lb/A zeta-cypermethrin + 0.336 lb/A bifenthrin) peryear, including soil application.

Do not make more than 2 foliar applications per year.

Refer to the maximum usage tables when applying more than one product containing either zetacypermethrin or bifenthrin to this crop.

Leaves cannot be used for food or feed.

#### **REMARKS**

Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 25 gallons of finished spray per acre by ground and 3 gallons of finished spray per acre by air).

Thorough coverage is essential to achieve control.

Apply as required by scouting. Base timing and frequency of applications on insect populations reaching locally determined economic threshold levels.

- \* Please consult your local or state agricultural authority to determine if resistance pest populations are in your area. Refer to the resistance management statement in the DIRECTIONS FOR USE section of this label.
- \*Coverage is essential for control of this pest. For heavy outbreaks, tank mix with another product that is labeled for this pest.
- \*\*Pyrethroid resistance is common for this pest. Please consult your local or state agricultural authority to determine if resistance pest populations are in your area. If so, refer the resistance management statement in the DIRECTION FOR USE section of this label.
- \*\* For Tuberworm control (adults and larvae) apply prior to harvest or senesce when economic thresholds are met.

#### **BUSHES, VINES and TREES**

#### **Blueberries**

Pests Controlled	Rate of Application
Aphid spp.	4.0 – 10.3 fl oz/A of product
Blueberry maggot	
Fruitworms	
Leaf hopper spp.	
Lecanium scale (crawlers)	
Plum curculio	
Oblique leafroller	
Red banded leafroller	
Spanworm	
Variegated leafroller	
Twospotted mite	10.3 fl oz/A of product
Carmine mite	
Pacific mite	
Lygus sp.	

#### Restrictions

PHI: Do not apply within 1 day of harvest.

**Application Interval:** Do not make applications less than 7 days apart.

**Maximum Amount per Application:** Do not apply more than 10.3 fl oz/A of product (0.025 lb/A zeta-cypermethrin + 0.075 lb/A bifenthrin) per application.

Maximum Amount of X198.106 allowed per Year: Do not apply more than 46.35 fl oz/A of product (0.112 lb/A zeta-cypermethrin + 0.336 lb/A bifenthrin) per year.

Do not make more than 4 applications per year when applications are made at the maximum rate.

Refer to the maximum usage tables when applying more than one product containing either zeta-cypermethrin or bifenthrin to this crop.

#### Remarks

Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 20 gallons of finished spray per acre by ground and 2 gallons of finished spray per acre by air). Follow appropriate spray drift precautions on this label.

#### **Caneberries**

Blackberries, Bingleberries, Boysenberry, Dewberries, Lowberries, Marionberries, Olallieberries, Youngberries, Loganberries, Raspberries (black and red)

Pests Controlled	Rate of Application		
Leafroller spp.	4.0 – 10.3 fl oz/A of product		
Orange tortrix			
Root weevil spp.			
Blackvine weevil			
Twospotted Spider mite	10.3 fl fl oz/A of product		
Carmine mite			
Raspberry crown borer			

#### Restrictions

**PHI:** Do not apply within 3 day of harvest.

**Application Interval:** Do not make applications less than 7 days apart.

**Maximum Amount per Application:** Do not apply more than 10.3 fl oz/A of product (0.025 lb/A zeta-cypermethrin + 0.075 lb/A bifenthrin) per application.

Maximum Amount of X198.106 allowed per Year: Do not apply more than 27.4 fl oz/A of product (0.066 lb/A zeta-cypermethrin + 0.198 lb/A bifenthrin) per Year.

Do not make more than 2 applications per year when applications are made at the maximum rate.

Refer to the maximum usage tables when applying more than one product containing either zetacypermethrin or bifenthrin to this crop.

#### Remarks

Apply by air or ground equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons of finished spray per acre by air and 50 gallons of finished spray per acre by ground).

One application may be made pre-bloom and a second application may be made post bloom

For Crown Borer, apply 0.10 lb ai/A post-harvest (fall) or pre-bloom (spring), as a drench application directed at the crown of plants in a minimum of 200 gallons water/A. Greater efficacy is observed at higher water gallonages (up to 400 gallons/A) or in an application prior to a significant rainfall event.

Do not make both pre-bloom foliar and pre-bloom drench applications.

Follow appropriate spray drift precautions on this label.

#### Grape

Pests Controlled	Rate of Application
Asian lady bird beetle	4.0 – 10.3 fl oz/A of product
Cutworm spp.	
Eastern grape leafhopper	
Grape berry moth	
Grape vine root borer (adult)	
Japanese beetle (adult)	
Lady bird beetle	
Variegated leafhopper	
Western grape leafhopper	
Black vine weevil	10.3 fl oz/A of product
Glassywinged sharpshooter	
Twospotted spider mite	

#### Restrictions

PHI: Do not apply within 30 days of harvest.

**Application Interval:** Do not make applications less than 7 days apart.

**Maximum Amount per Application:** Do not apply more than 10.3 fl oz/A of product lb ai/A (0.025 lb/A zeta-cypermethrin + 0.075 lb/A bifenthrin) per application.

**Maximum Amount of X198.106 allowed per Year:** Do not apply more than 10.3 fl oz/A of product (0.025 lb/A zeta-cypermethrin + 0.075 lb/A bifenthrin) per year.

Do not make more than 1 application per year when applications are made at the maximum rate.

Refer to the maximum usage tables when applying more than one product containing either zeta-cypermethrin or bifenthrin to this crop.

#### Remarks

Apply as required by scouting. Base timing and frequency of applications on insect populations reaching locally determined economic threshold levels.

Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 25 gallons of finished spray per acre by ground and 10 gallons of finished spray per acre by air).

Follow appropriate spray drift precautions on this label.

#### **Pecans**

Pests Controlled	Rate of Application
Black Pecan Aphid	10.3 fl oz/A of product
Hickory Shuckworm	
Pecan Nut Casebearer	
Pecan Weevil	
Yellow Pecan Aphid	

#### Restrictions

PHI: Do not apply within 21 days of harvest.

**Maximum Amount per Application:** Do not apply more than 10.3 fl oz/A of product (0.025 lb/A zeta-cypermethrin + 0.075 lb/A bifenthrin) per application.

**Maximum Amount of X198.106 allowed per Year:** Do not apply more than 46.35 fl oz/A of product (0.112 lb/A zeta-cypermethrin + 0.336 lb/A bifenthrin) per year.

Do not make more than 4 applications per year when applications are made at the maximum rate.

Refer to the maximum usage tables when applying more than one product containing either zetacypermethrin or bifenthrin to this crop.

Do not make applications less than 15 days apart.

Do not graze livestock in treated orchards or cut treated cover crops for feed.

#### **REMARKS**

#### **Application by ground:**

Apply as a dilute (minimum of 200 gallons of finished spray per acre) or concentrate (minimum of 50 gallons of finished spray per acre) spray in sufficient water to provide thorough coverage.

#### Application by air:

Apply the specified dosage in a minimum of 10 gallons of finished spray per acre.

#### **Avocado**

Pests Controlled	Rate of Application
Avocado Lace Bug	7.75 fl oz/A of product
Avocado Leafhopper	
Avocado Leafroller	
Avocado Loopers	
Avocado Tree Girdler	
Avocado Whitefly	
Brown Soft Scale	
Caterpillars	
Mirids	
Omnivorous Loopers	
Orange Tortrix	
Scale Crawlers	

Spanworm	
Thrips	
Twig Borers	
Redbay Ambrosia Beetle	

#### Restrictions

PHI: Do not apply within 1 day of harvest.

Application Interval: Do not make applications less than 14 days apart.

**Maximum Amount per Application:** Do not apply more than 7.75 fl oz/A of product (0.019 lb/A zeta-cypermethrin + 0.056 lb/A bifenthrin) per application.

**Maximum Amount of X198.106 allowed per Year:** Do not apply more than 38.71 fl oz/A of product (0.093 lb/A zeta-cypermethrin + 0.280 lb/A bifenthrin) per year.

Do not make more than 5 applications per year when applications are made at the maximum rate.

Refer to the maximum usage tables when applying more than one product containing either zeta-cypermethrin or bifenthrin to this crop.

Do not graze livestock in treated orchards or cut treated cover crops for feed.

#### **REMARKS**

Apply when insects first appear.

Apply in a minimum of 10 gallons of finished spray per acre by air or in a minimum of 95 gallons of finished spray per acre with ground equipment.

#### STORAGE AND DISPOSAL

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

#### **Pesticide Storage**

Do not freeze. Keep out of reach of children and animals.

Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call CHEMTREC (Transportation and Spills): (800) 424-9300.

**To confine spill:** Dike surrounding area or absorb with sand, cat litter, or commercial clay. Place damaged package in a holding container. Identify contents.

#### **Pesticide Disposal**

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

#### **Container Handling**

Nonrefillable Container

Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying.

Triple rinse as follows:

For containers equal to 5 gallons or less: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

For containers greater than 5 gallons: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution. For 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Then offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

#### Refillable/Returnable Container

Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection systems. Repeat this rinsing procedure two more times. Then offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

#### LIMITATION OF WARRANTY AND LIABILITY

IMPORTANT: READ BEFORE USE. Read the entire Directions for Use, Conditions of Warranties and Limitations of Liability before using this product. If these terms and conditions are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Disclaimer of Warranties and Limitations of Liability. CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness, injury, and other unintended consequences may result because of such factors as manner of use or application (including misuse), the presence of other materials, weather conditions, and other unknown factors, all of which are beyond the control of ATTICUS, LLC. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, ATTICUS, LLC makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond statements on this label. LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, neither ATTICUS, LLC the manufacturer, nor the Seller shall be liable for any indirect, special, incidental or consequential damages resulting from the use, handling, application, storage, or disposal of this product. To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use, handling, application, or storage of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid.

[X198.106] is a trademark of Atticus, LLC [Hero® is a registered trademark of FMC Corporation.]

#### **{LANGUAGE ON LABEL AFFIXED TO CONTAINER}**

#### 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.

ZETA-CYPERMETHRIN	GROUP	3A	INSECTICIDE
BIFENTHRIN	GROUP	3A	INSECTICIDE

# X198.106[™]

[Alternate Brand Name: Cortes BTN]

[Contains zeta-cypermethrin and bifenthrin, the active ingredients used in Hero® Insecticide.]

ACTIVE INGREDIENTS:	(% by weight)
Zeta-Cypermethrin*	3.75%
Bifenthrin**	11.25%
OTHER INGREDIENTS***	85.00%
TOTAL	100.0%
Contains 0.309 pound zeta-cypermethrin and 0.927 pound	d bifenthrin per

- gallon.

  \* Cis/trans isomer ratio: Max 75% (±) cis and Min. 25% (±) trans
- \*\* Cis isomers 97% minimum; trans isomers 3% maximum.
- \*\*\* Contains Petroleum Distillates

# CAUTION

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.)

	uetaii.)		
	FIRST AID		
If swallowed:	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> </ul>		
	<ul> <li>Have person sip a glass of water if able to swallow.</li> </ul>		
	<ul> <li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li> </ul>		
	Do not give anything by mouth to an unconscious person.		
If on skin or clothing:	Take off contaminated clothing.		
ciotimig.	Rinse skin immediately with plenty of water for 15-20 minutes.		
	Call a poison control center or doctor for treatment advice.		
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>		
If inhaled:	Move person to fresh air.		
	<ul> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> </ul>		
	Call a poison control center or doctor for further treatment advice.		
NOTE TO PHY	SICIAN: Contains netroleum distillates. Vomiting may cause asniration		

NOTE TO PHYSICIAN: Contains petroleum distillates. Vomiting may cause aspiration pneumonia.

#### HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall at **1-844-685-9173** for emergency medical treatment information.

For Chemical Emergency: Spill, Leak, Fire, Exposure, or Accident, Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION

Harmful if swallowed, inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid breathing vapor or spray mist. Do not get on skin, in eyes or on clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

**ENVIRONMENTAL HAZARDS:** This pesticide is extremely toxic to fish, aquatic invertebrates, oysters and shrimp. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

The use of **X198.106** is prohibited in areas where its application may result in exposure to endangered species. Prior to use in a particular county contact the local extension service for procedures and precautions to use to protect endangered species

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. Protect pollinating insects by following label directions intended to minimize drift and to reduce risk to these organisms.

#### STORAGE AND DISPOSAL

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

#### **Pesticide Storage**

Do not freeze. Keep out of reach of children and animals.

Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call CHEMTREC (Transportation and Spills): (800) 424-9300.

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#### **Container Handling: Nonrefillable Container**

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#### Triple rinse as follows:

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For containers greater than 5 gallons: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution. For 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Then offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

#### Refillable/Returnable Container

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See inside label booklet for additional Precautionary Statements and Directions for Use.

[X198.106 is not manufactured, or distributed by FMC Corporation, seller of Hero® Insecticide.]

Manufactured for: EPA Reg. No.: 91234-XX Atticus, LLC EPA Est. No.:

# {Optional Marketing graphics}





