



**OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION**

WASHINGTON, D.C. 20460

February 27, 2026

**SENT BY EMAIL**

Catherine Rice  
catherine.rice@envu.com  
ENVIRONMENTAL SCIENCE U.S., LLC

Subject: Labeling Notification per Pesticide Registration Notice (PRN) 98-10 - Add new package size and some associated label tweaks based on new package size  
Product Name: F6139-2 INSECTICIDE  
Admin Number: 101563-388  
EPA Receipt Date: 11/20/2025  
Action Case Number: 00676871

Dear Catherine Rice:

The U.S. Environmental Protection Agency is in receipt of your application for notification under Pesticide Registration Notice 98-10 for the above referenced product. The EPA has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The labeling submitted with this application has been stamped "Notification" and will be placed in our records.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the 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 EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

If you have questions, please contact Hester Dingle via email at [dingle.hester@epa.gov](mailto:dingle.hester@epa.gov).

Sincerely,

A handwritten signature in cursive script that reads "Hester Dingle (for)".

Jacquelyn Herrick, PM 03  
IVB1, RD  
Office of Pesticide Programs

## NOTIFICATION

101563-388

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

02/27/2026

NOTE to EPA Product Manager: Text in brackets [] is optional.

# F6139-2

Insecticide

### Alternate Brand Name

- **Talstar® XTRA Granular Insecticide featuring Verge® Granular Technology**

For use to control pests, as listed, outdoors, including areas surrounding residential, institutional, public, commercial and industrial buildings.

For use on lawns and landscaped areas around residential, institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields.

Kills fire ant queens within 24 hours.

Kills fire ant mounds within 15 minutes.

EPA Reg. No. **101563-388**

EPA Est. \_\_\_\_\_

#### Active Ingredients

Zeta-Cypermethrin*.....	0.05%
Bifenthrin**.....	0.20%
<b>Other Ingredients</b> .....	<b>99.75%</b>
Total	100.0%

\* *Cis/trans* isomer ratio: Max 75% (±) *cis* and Min. 25% (±) *trans*

\*\* *Cis* isomers 97% minimum; *trans* isomers 3% maximum.

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

See [other panels][booklet][back] for additional precautionary information.

#### PRODUCED FOR

**Environmental Science U.S., LLC**  
**5000 CentreGreen Way, Suite 400**  
**Cary, NC 27513**

**Net Contents:**

### FIRST AID

<b>If swallowed</b>	<ul style="list-style-type: none"><li>• Call 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>
<b>If in eyes</b>	<ul style="list-style-type: none"><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>

### MEDICAL HOTLINE 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 **Environmental Science U.S., LLC Emergency Response Telephone No. 1-800-424-9300** for Emergency Assistance.

### NOTE TO PHYSICIAN

This product is a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.

For Technical Support or information regarding the use of this product, call **1-800-331-2867**.

## PRECAUTIONARY STATEMENTS

### Hazards to Human and Domestic Animals

#### CAUTION

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear long-sleeved shirt and long pants, socks, shoes and gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

### Environmental Hazards

This pesticide is extremely toxic to fish, aquatic invertebrates, oysters and shrimp. Do not apply when weather conditions favor drift from treated areas. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas.

## DIRECTIONS FOR USE

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

For outdoor use only.

For soil or foliar applications, do not apply by ground within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish ponds.

Do not apply the product into fish pools, ponds, streams or lakes. Do not apply directly to sewers or storm drains, or to any area like a drain or gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur.

Do not allow the product to enter any drain during or after application.

Do not apply directly to impervious horizontal surfaces such as sidewalks driveways and patios. Sweeping any product that lands on a driveway, sidewalk, or street, back onto the treated area of the lawn or garden will help to prevent run off to water bodies or drainage systems.

Do not make applications during rain.

Do not irrigate to the point of runoff.

Do not apply when the wind speed is greater than 15 mph.

Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area.

**RESISTANCE MANAGEMENT:** F6131 G Insecticide contains Group 3A Insecticides. Any insect population may contain individuals naturally resistant to F6131 G Insecticide and other Group 3A insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

**Product Information**

For use on plants intended for aesthetic purposes or climate modification and being grown in interior plantscapes, ornamental gardens or parks, or lawns or grounds. Also for use as a perimeter or spot treatment to control pests outdoors, including areas surrounding residential, institutional, public, commercial and industrial buildings.

Not for use on plants being grown for sale of other commercial use, or for commercial seed production, or for research purposes.

Not for use on golf courses, sod farms, nurseries, in commercial greenhouses or on grass grown for seed.

**LAWN AND PERIMETER**

**Application Information**

Apply this product directly to the lawn or garden area.

Water treated area as directed on this label. Do not water to the point of run-off.

Broadcast with suitable application equipment to ensure uniform coverage over the treatment area.

Use Rate Conversion					
{Note to Reviewer: Only one of these columns will appear on the commercial label.}		lbs. Bifenthrin per acre	lbs. Zeta-Cypermethrin per acre	lbs. Total ai per acre	lbs. F6139-2 Insecticide per acre
lbs. F6139-2 Insecticide per 217 sq. ft.	lbs. F6139-2 Insecticide per 1000 sq. ft.				
0.25	1.15	0.1	0.025	0.125	50
0.50	2.3	0.2	0.050	0.25	100
0.62	2.9	0.25	0.063	0.313	125
0.85	3.9	0.34	0.085	0.425	170
1.0	4.6	0.4	0.100	0.50	200

The maximum annual application rate is 200 lbs product (equivalent to 0.4 lbs. bifenthrin) per acre per year.

Do not apply more than 100 lbs product (0.2 lb. bifenthrin) per acre per application on residential use sites (i.e., around private homes, apartment buildings, condominiums, non-agricultural outbuildings, non-commercial greenhouses, pre-schools or day-care facilities).

May be applied at up to 200 lbs product (0.4 lbs. bifenthrin) per acre per application on non-residential use sites (i.e., around institutional, public, commercial or industrial buildings; parks; recreational areas or athletic fields). In settings where children may visit and application rates are over 170 lbs bifenthrin (0.34 lbs. bifenthrin) per acre per application, then granules must be watered in.

The application rates listed in the following table will provide control of the respective pests under typical conditions.

Pest	Application Rate			
	{Note to Reviewer: Only one of these columns will appear on the commercial label.}		lbs. total ai per acre	lbs. product per acre
	lbs. product per 217 sq. ft.	lbs. product per 1000 sq. ft.		
Annual Bluegrass Weevil ( <i>Hyperodes</i> ) (adults) Armyworms Billbugs (adults) Black Turfgrass Ataenius (adults) Cutworms Leafhoppers Mealybugs Sod Webworms	0.25 – 0.50	1.15 - 2.3	0.125 – 0.25	50 - 100

**Annual Bluegrass Weevil (*Hyperodes*) adults:** Applications should be timed to control adult weevils as they leave their overwintering sites and move into grass areas. This movement generally begins when Forsythia is in full bloom and concludes when flowering dogwood is in full bloom. Consult your State Cooperative Extension Service for more specific information regarding application timing.

**Armyworms, Cutworms, and Sod Webworms:** To ensure optimum control, irrigate the treated area with water immediately after application to activate (release from the granule) the insecticide.

**Billbug adults:** Applications should be made when adult billbugs are first observed during April and May. Degree day models have been developed to optimize application timing. Consult your State Cooperative Extension Service for information specific to your region. In temperate regions, spring applications targeting billbug adults will also provide control of over-wintered chinch bugs.

**Black Turfgrass Ataenius adults:** Applications should be made during May and July to control the first and second generation of black turfgrass *Ataenius* adults, respectively. The May application should be timed to coincide with the full bloom stage of Vanhoutte spiraea (*Spiraea vanhouttei*) and horse chestnut (*Aesculus hippocastanum*). The July application should be timed to coincide with the blooming of Rose of Sharon (*Hibiscus syriacus*).

Ants, including carpenter ants (except Pharoah ants)	0.50 – 1.0	2.3 - 4.6	0.25 – 0.5	100 - 200
Centipedes				
Chinch Bugs				
Crane Flies (larvae)				
Earwigs				
Fleas (larvae & adults)				
Imported Fire Ants (adults)				
Millipedes				
Mole Crickets (nymphs & adults)				
Pillbugs				
Scorpions				
Sowbugs				
Ticks				

**Chinch Bugs:** Chinch bugs infest the base of grass plants and are often found in the thatch layer. Irrigate the treated area with up to 0.25 inches of water immediately after application to activate (release from the granule) the insecticide. Chinch bugs can be one of the most difficult pests to control in grasses and the higher applications rates may be required to control populations that contain both nymphs and adults during the summer.

**Crane Flies:** Treatments should be made to control early to mid-season larvae (approximately August – February) as they feed on plant crowns. Treatments made to late-season larvae (approximately March - April) may only provide suppression. Consult your local extensions agent for specific recommendations for your area.

**Earwigs:** When earwigs are found in mulch, mix granules into the mulch layer. Place a 3-6 foot band of F6139-2 insecticide around the building adjacent to the foundation (perimeter treatment) to stop or limit earwigs from getting indoors. Earwigs are attracted to moisture around homes, particularly when the weather turns hot and dry. For best results, eliminate damp, moist conditions in crawl spaces under houses, around exterior water spigots, air-conditioning units and along house foundations. Also, for best results, reduce lighting around doors, windows and other potential entry sites or use exterior sodium vapor yellow lights which attract fewer insects compared to white, neon, halide, or mercury vapor lights.

**Fleas (adults and larvae):** Control is provided for up to seven days. Flea larvae develop in the soil of shaded areas that are accessible to pets or other animals. Irrigate the treated area with up to 0.5 inches of water immediately after application to activate (release from the granule) the insecticide.

**Imported Fire ants:** Control will be optimized by combining broadcast applications that will control foraging workers and newly mated fly-in queens with mound treatments that will control existing colonies. If the soil is not moist, then it is important to irrigate before or soon after application. Broadcast treatments should apply no more than 0.5 lbs. total ai (0.4 lbs. bifenthrin) per acre. Mounds should be treated by applying ½ cup of F6139-2 insecticide per mound and then drenching the mound with 1 to 2 gallons of water. The mounds should be treated with sufficient force to break their apex and allow the insecticide solution to flow into the ant tunnels. Treat three feet out around the mound. For best results, apply in cool weather (65 - 80° F) or in early morning or late evening hours. This treatment will control the mound within 15 minutes and kill the queen within 24 hours of application. Application of at least 0.313 lbs. total ai per acre will provide four months residual activity for control of foraging Imported Fire Ants and newly mated fly-In Queens. **Food utensils such as teaspoons and measuring cups should not be used for food purposes after use with insecticide.**

**Mole Cricket adults:** Achieving acceptable control of adult mole crickets is difficult because preferred grass areas are subject to continuous invasion during the early spring by this extremely active stage. Applications should be made as late in the day as possible and should be watered in with up to 0.5 inches of water immediately after treatment. If the soil is not moist, then it is important to irrigate before application to bring the mole crickets closer to the soil surface where contact with the insecticide will be maximized. Grass areas that receive pressure from adult mole crickets should be treated at peak egg hatch to ensure optimum control of subsequent nymph populations (see below).

**Mole Cricket nymphs:** Grass areas that received intense adult mole cricket pressure in the spring should be treated immediately prior to peak egg hatch. Optimal control is achieved at this time because young nymphs are more susceptible to insecticides and they are located near the soil surface where the insecticide is most concentrated. Control of larger, more damaging, nymphs later in the year may require both higher application rates and more frequent applications to maintain acceptable control. Applications should be made as late in the day as possible and should be watered in with up to 0.5 inches of water immediately after treatment. If the soil is not moist, then it is important to irrigate before application to bring the mole crickets closer to the soil surface where contact with the insecticide will be maximized.

**Scorpions:** To ensure optimum control, treat the building perimeter at dusk to prevent outdoor scorpions from entering the building. Scorpions reside hidden in cracks and voids during the day and are active at night at temperatures above 77°F/25°C. Resting areas

can be identified at night using a blacklight (UV bulb) as scorpions will fluoresce. These areas should also be treated. Prior to treatment, to increase treatment efficacy, remove trash, debris, or firewood that scorpions may use as resting sites.

**Ticks (Including ticks that may transmit Lyme Disease and Rocky Mountain Spotted Fever):** Do not make spot applications. Treat the entire area where exposure to ticks may occur. Use higher application rates when treating areas with dense ground cover or heavy leaf litter. Ticks may be reintroduced from surrounding areas on host animals. Do not allow public use of treated areas during application.

**Deer ticks (*Ixodes* sp.)** have a complicated life cycle that ranges over a two year period and involves four life stages. Applications should be made in mid to late-spring to control larvae and nymphs that reside in the soil and leaf litter.

**American dog ticks** may be a considerable nuisance in suburban settings, particularly where homes are built on land that was previously field or forest. These ticks commonly congregate along paths or roadways where humans are likely to be encountered. Applications should be made as necessary from mid-spring to early fall to control American dog tick larvae, nymphs and adults.

**Perimeter:** Apply to ground area up to 7 feet wide around and adjacent to the structure. See table below.

**Boundary Applications:** Apply to soil areas, ornamental gardens, pavement crevices, fencelines, planter areas, vegetation areas and mulch areas.

{Note to Reviewer: Only one of the following two tables will appear on the commercial label.

Based on EPA comments, rates of 0.62 lbs/217 sq ft and 0.85 lbs/217 sq ft were used in the 217 sq ft table (equate to 2.9 lbs/1000 sq ft. and 3.9 lbs/1000 sq ft respectively). For this reason, when the values in the two columns are compared, some of the values in 100, 150, 200 columns will not "match."}

Application Rate: lbs. per 217 sq. ft.	Band Width (ft)	lbs. F6139-2 Insecticide for Perimeter Applications Linear Distance (Feet) Around Structure			
		100	150	200	217
0.50	5	1.3	1.9	2.5	2.7
0.50	7	2.0	2.8	3.6	3.8
0.62	5	1.7	2.4	3.1	3.4
0.62	7	2.5	3.6	4.5	4.9
0.85	5	2.3	3.2	4.2	4.5
0.85	7	3.3	4.7	6.1	6.5
1.0	5	2.7	3.8	5.0	5.4
1.0	7	3.9	5.5	7.1	7.7

Note: The amounts of F6139-2 insecticide listed in this table are based on the total area being treated. This area is determined by multiplying the linear distance by the band width and then adding to that value the area of a circle whose radius is equal to the band width (to account for the area treated at the four corners of a rectangular structure).

**Commented [CR1]:** Per the note in the table, the "total area treated" calculation requires the area of the circle to be determined. Since this is a non-linear factor, calculating "lbs product per linear distance (feet)" using ratios may yield an incorrect result.

Application Rate: lbs. per 1000 sq. ft.	Band Width (ft)	lbs. F6139-2 Insecticide for Perimeter Applications Linear Distance (Feet) Around Structure							
		100	150	200	250	300	400	500	1000
2.3	5	1.3	1.9	2.5	3.1	3.6	4.8	5.9	11.7
2.3	7	2.0	2.8	3.6	4.4	5.2	6.8	8.4	16.5
3.0	5	1.7	2.5	3.2	4.0	4.7	6.2	7.7	15.2
3.0	7	2.6	3.6	4.7	5.7	6.8	8.9	11.0	21.5
3.5	5	2.0	2.9	3.8	4.7	5.5	7.3	9.0	17.8
3.5	7	3.0	4.2	5.4	6.7	7.9	10.3	12.8	25.0
4.6	5	2.7	3.8	5.0	6.1	7.3	9.6	11.9	23.4
4.6	7	3.9	5.5	7.1	8.8	10.4	13.6	16.8	32.9

Note: The amounts of F6139-2 insecticide listed in this table are based on the total area being treated. This area is determined by multiplying the linear distance by the band width and then adding to that value the area of a circle whose radius is equal to the band width (to account for the area treated at the four corners of a rectangular structure).

[In New York State, this product may NOT be applied to any grass or turf area within 100 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).]

[In New York State, do make a single repeat application of F6139-2 insecticide if there are signs of renewed insect activity, but not sooner than two weeks after the first application.]

### SPREADER EQUIPMENT SETTINGS

Broadcast application should be performed with a calibrated commercial broadcast spreader to evenly distribute the granules. Approximate settings for several models are provided in the table below.

Insert spreader setting table here

### SPOT TREATMENT APPLICATIONS

Spot treatments must not exceed two square feet in size (for example, 2 ft by 1 ft or 4 ft by 0.5 ft).

**Mound Ant Treatment, including Fire Ants:** Apply 1/2 cup of F6139-2 insecticide per mound and then drench the mound with 1 - 2 gallons of water. The mound should be drenched with sufficient force to break its apex and allow the insecticide to flow into the ant tunnels. Treat three feet out around the mound. For best results, apply in cool weather (65 to 80°F) or in early morning or late evening hours. Treat new mounds as they appear. F6139-2 insecticide will provide control of ant mounds within four hours. **Food utensils such as teaspoons and measuring cups should not be used for food purposes after use with insecticide.**

### INDUSTRIAL NON-AGRICULTURAL APPLICATIONS

(Including Industrial Sites, Parks, Ball Fields and Cemeteries)

**Broadcast and Spot Applications:** For the control of actively foraging ants (including Imported Fire Ants) broadcast uniformly 2.3 - 4.6 lbs product per 1000 sq ft (0.25 – 0.5 lbs. total ai per acre). For Imported Fire Ants treatment recommendations, refer to the application rate table in the “**LAWN AND PERIMETER**” section.

**Pad Mounted Electrical Sites:** To reduce or prevent ant mound building activity on electrical pads, uniformly distribute 1.0 - 1.5 Tablespoons (0.06 – 0.09 lbs.) of F6139-2 insecticide per 4 sq. ft. of mounting pad. Where existing transformers are completely or partially filled with soil excavated by resident ants, remove any excess fill and level the remaining soil prior to application. **Food utensils such as tablespoons must not be used for food purposes after use in measuring pesticides.**

**Note:** Electrical transformers appear to be more attractive to ants during the cooler months. For best results treat in the Fall or early Spring.

### STORAGE AND DISPOSAL

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

**Pesticide Storage:** 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, close tightly.

**In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. You may contact the Environmental Science U.S., LLC Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Environmental Science U.S., LLC Emergency Response Telephone No. is 1-800-424-9300.**

**To confine spill:** Cover to prevent dispersal. 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

Non-refillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling, if available, or dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**CONDITIONS OF SALE AND LIMITATIONS OF WARRANTY AND LIABILITY**

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, 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, plant injury, or other property damage as well as unintended consequences may result because of factors as beyond the control of Environmental Science U.S. LLC. Those factors include, but are not limited to, weather conditions, presence of other materials or the manner of use or application. All such risks shall be assumed by the user or buyer.

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