



# Specimen Label

## Hachi-Hachi® SC

Insecticide

TOLFENPYRAD	GROUP	21A	INSECTICIDE
	GROUP	39	FUNGICIDE

For Use on Indoor Greenhouse and Outdoor Ornamental Plants

### ACTIVE INGREDIENT:

Tolfenpyrad

1H-Pyrazole-5-carboxamide, 4-chloro-3-ethyl-1-methyl-N-[[4-(4-methylphenoxy)phenyl]methyl]-

15.0%

OTHER INGREDIENTS: 85.0%

TOTAL 100.0%

Contains 1.34 lbs active ingredient per U.S. gallon

### Keep Out of Reach of Children

## WARNING / AVISO

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

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

May be fatal if inhaled. Do not breathe vapor or spray mist. Harmful if swallowed or if absorbed through skin. Avoid contact with skin, eyes, or clothing. Causes moderate eye irritation. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

#### FIRST AID

<b>If inhaled</b>	<ul style="list-style-type: none"> <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>
<b>If swallowed</b>	<ul style="list-style-type: none"> <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 a 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.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>

<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <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>
<b>HOTLINE NUMBER</b>	
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For additional information on this pesticide product, including human health concerns and medical emergencies, call <b>INFOTRAC</b> at <b>1-800-535-5053</b>.</p>	

## **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

### **Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants;
- Waterproof gloves;
- Shoes plus socks;
- Protective eyewear (goggles, face shield, or safety glasses).
- For handling activities, wear a minimum of a NIOSH-approved elastomeric half mask respirator with organic vapor (OV) cartridges and a combination N, R, or P filter; OR a NIOSH-approved gas mask with OV canisters; OR a NIOSH-approved powered air-purifying respirator with OV cartridges and combination HE filters.

### **See Engineering Controls**

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, 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.

## **ENGINEERING CONTROLS**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4–6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

## **USER SAFETY RECOMMENDATIONS**

### **Users should:**

- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE 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.
- Wash clothing and personal protective equipment (including both the inside and outside of gloves) before each day of reuse according to manufacturer's directions or, if no such directions exist, in detergent and hot water. Keep and wash PPE separately from other laundry.

## **ENVIRONMENTAL HAZARDS**

This pesticide is very highly toxic to fish and aquatic invertebrates.

**For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions**

**favor drift from treated areas.** Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

This product is highly toxic to bees and other pollinating insects exposed to direct treatment or residues on blooming ornamental plants or weeds. **Do not apply this product or allow it to drift to blooming plants or weeds if bees or other pollinating insects are visiting the treatment area.** Application must be made at least 8 hours prior to bees foraging.

This product may impact surface water quality due to runoff of rainwater. This is especially true for poorly draining soils and soils with shallow groundwater. This product is classified as having medium to high potential for reaching both surface water and aquatic sediment via runoff for several weeks after application. A level, well-maintained vegetative filter (buffer) strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of this chemical from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's potential to reach aquatic sediment via runoff.

## PROTECTION OF POLLINATORS



**APPLICATION RESTRICTIONS** EXIST FOR THIS PRODUCT BECAUSE OF RISK TO BEES AND OTHER INSECT POLLINATORS. FOLLOW APPLICATION RESTRICTIONS FOUND IN THE DIRECTIONS FOR USE TO PROTECT POLLINATORS.

### This product can kill bees and other insect pollinators.

Bees and other insect pollinators will forage on plants when they flower, shed pollen, or produce nectar.

Bees and other insect pollinators can be exposed to this pesticide from:

- Direct contact during foliar applications or contact with residues on plant surfaces after foliar applications.
- Ingestion of residues in nectar and pollen when the pesticide is applied as a seed treatment, soil, tree injection, as well as foliar applications.

When using this product, take steps to:

- Minimize exposure of this product to bees and other insect pollinators when they are foraging on pollinator attractive plants around the application site.
- Minimize drift of this product onto beehives or to off-site pollinator attractive habitat. Drift of this product onto beehives or off-site to pollinator attractive habitat can result in bee kills.

Information on protecting bees and other insect pollinators may be found at the Pesticide Environmental Stewardship website at:

<http://pesticidestewardship.org/PollinatorProtection/Pages/default.aspx>.

Pesticide incidents (for example, bee kills) should immediately be reported to the state/tribal lead agency. For contact information for your state, go to: [www.aapco.org/officials.html](http://www.aapco.org/officials.html). Pesticide incidents should also be reported to the National Pesticide Information Center at: [www.npic.orst.edu](http://www.npic.orst.edu) or directly to EPA at: [beekill@epa.gov](mailto:beekill@epa.gov)

## ENDANGERED SPECIES RESTRICTIONS

This product may pose a hazard to endangered aquatic species. Follow all use directions.

## PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

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## DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the state or tribal agency responsible for pesticide regulation. Use of this product in residential areas is prohibited.



**COMMERCIALY GROWN ORNAMENTALS NOT UNDER CONTRACT FOR POLLINATION SERVICES BUT ARE ATTRACTIVE TO POLLINATORS**

Do not apply this product while bees are foraging. Do not apply this product until flowering is complete and all petals have fallen unless one of the following conditions is met:

- The application is made to the target site after sunset.
- The application is made to the target site when temperatures are below 55°F.
- The application is made in accordance with a government-initiated public health response.
- The application is made in accordance with an active state-administered apiary registry program where beekeepers are notified no less than 48-hours prior to the time of the planned application so that the bees can be removed, covered or otherwise protected prior to spraying
- The application is made due to an imminent threat of significant crop loss and a documented determination consistent with an IPM plan or predetermined economic threshold is met. Every effort should be made to notify beekeepers no less than 48 hours prior to the time of the planned application so that the bees can be removed, covered, or otherwise protected prior to spraying.

## 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.

For early entry into 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, wear:

- Coveralls
- Waterproof gloves
- Shoes plus socks
- Protective eyewear (goggles, face shield, or safety glasses)

## USE INFORMATION

Hachi-Hachi® SC insecticide is a suspension concentrate containing 1.34 lbs of active ingredient tolfenpyrad per gallon. This product is a contact insecticide used for the control of several orders of insects. Complete and thorough spray coverage is necessary for maximum results. Hachi-Hachi SC insecticide should be used in a program with other products to provide season long protection. Apply as a spray as directed in the **Application Directions** section of this label.

Mix with sufficient water and apply as a foliar spray to obtain uniform coverage. Adjust water volumes and tractor speed accordingly for ornamental plants with dense foliage or excessive growth. Unless otherwise specified under **Application Directions**, apply when pest populations are beginning to build, before plant damage or injury is observed. Consult your local agricultural advisor or state cooperative extension service for recommendations.

## DIRECTIONS FOR USE OF HACHI-HACHI® SC INSECTICIDE AS A FUNGICIDE

For ornamental plants and diseases where the level of activity of Hachi-Hachi® SC insecticide is listed as “control”, this product may be used alone as a contact fungicide or mixed with other registered fungicide products to broaden spectrum of disease control. For plants and diseases where the level of activity of Hachi-Hachi® SC insecticide is listed as “suppression”, this product should NOT be substituted for labeled fungicidal products.

## APPLICATION DIRECTIONS

- Applications should be made immediately after the spray solution is prepared.
- Thorough spray coverage is critical to obtain control of the target pest(s).
- Applications may be made by ground with high or low volume spray equipment that provides thorough spray coverage of the plant.
- Use sufficient water volume to ensure thorough coverage of foliage.

## RESTRICTIONS

- **Do not spray to the point of runoff.**
- **Do not allow pesticide to enter or run off into public waterways, sewers, or drains.**
- **Do not apply Hachi-Hachi SC insecticide through any type of irrigation system.**

- **Not for sale into, distribution, and/or use in New York state.**

## **SPRAY ADJUVANTS**

For maximum performance, the use of an agricultural spray adjuvant with Hachi-Hachi® SC insecticide is recommended to increase spray coverage of the plants and pests being treated. Select an adjuvant that is labeled for agricultural use and follow its use directions.

## **USE RESTRICTIONS FOR ORNAMENTAL CROPS**

- Do not apply this product in residential areas.
- Do not apply this product as a smoke or aerosol.
- In Florida, do not use on bearing or nonbearing commercial fruit trees and vines.
- Do not use this product through any type of irrigation system.

## **USE LIMITATIONS AND PRECAUTIONS FOR ORNAMENTAL CROPS**

- Do not apply to *Salvia* spp., *Impatiens* spp., *Gypsophila* spp. and New Guinea impatiens due to potential plant injury.
- Do not apply to Poinsettias with bracts with color.

## **Resistance Management**

For resistance management, Hachi-Hachi® SC insecticide contains a Group 21A insecticide. Any insecticide population may contain individuals naturally resistant to Hachi-Hachi® SC Insecticide and other Group 21A 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.

To delay insecticide/acaricide resistance, take the following steps:

- Rotate the use of Hachi-Hachi® SC Insecticide or other Group 21A 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):
  - 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 pest(s).
  - 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 insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide/acaricides use 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 resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Nichino America representatives at 888-740-7700.

### **Mixing Directions**

Shake well before using. Read and follow all label directions for each tank mix product prior to any tank mixing with Hachi-Hachi® SC insecticide. This product can be mixed with other registered pesticides for use on labeled ornamental plants or sites, in accordance with the most restrictive use directions and precautions. Do not exceed any labeled dose rate.

Hachi-Hachi® SC insecticide is physically and biologically compatible with many registered pesticides, fertilizers or micronutrients. Contact your supplier for advice when considering mixing Hachi-Hachi® SC insecticide with other pesticides, fertilizers, or micronutrients. If you have no experience with the combination you are considering, you should conduct a test to determine physical compatibility. To determine physical compatibility, add the recommended proportions of each chemical with the same proportion of water, as will be present in the chemical supply tank, into a suitable container, mix thoroughly and allow to stand for five minutes. If the combination remains mixed, or can be readily remixed, the mixture is considered physically compatible.

**Hachi-Hachi® SC Insecticide Alone:** Begin with clean equipment. Fill spray tank with  $\frac{3}{4}$  of the amount of water needed for the intended application and then turn on agitation. Pour recommended amount of product on the surface of water in the spray tank. Add the remaining water volume to the spray tank with agitation running. Keep agitation running during filling and spraying operations. If spraying must be stopped before emptying the sprayer, resume agitation before spraying the remainder of the load.

### **Hachi-Hachi® SC Insecticide Tank Mixtures:**

**It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.** Begin with clean equipment. Fill spray tank with  $\frac{3}{4}$  of the amount of water needed for the intended application and turn on agitation. If using a buffering agent, add after filling the tank with  $\frac{3}{4}$  amount of water.

Add the recommended amount of tankmix products in the following order while maintaining agitation:

- 1) products in water soluble packets
- 2) wettable powders
- 3) water dispersible granulars and/or soluble powders
- 4) flowable liquids (including Hachi-Hachi® SC insecticide)
- 5) emulsifiable concentrate
- 6) adjuvants and/or oils
- 7) remaining amount of water to achieve the desired level

### **COMPATIBILITY STATEMENT REGARDING CERTAIN FUNGICIDE PRODUCTS**

Hachi-Hachi® SC insecticide has been found to be compatible in mixes with several different fungicide products and has been found to be safe to labeled ornamental plants under most conditions. However, care should be taken when applying Hachi-Hachi® SC insecticide in tankmixes with fungicide products in FRAC Group 3 (sterol biosynthesis inhibitors) and FRAC Group 11 (QoI) if environmental conditions are known to be conducive to adverse plant response to those products.

## Use on Ornamental Plants

Hachi-Hachi® SC insecticide is recommended for use on ornamental plants. The use directions of this product are based on the results of product testing programs on a wide variety of ornamental plants. The phytotoxicity of Hachi-Hachi® SC insecticide has been assessed on a wide variety of common ornamental plants. However, not all plant species, varieties, and cultivars have been tested, including with possible tankmix combinations, sequential pesticide treatments, and adjuvants and surfactants. Local conditions also can influence plant tolerance and may not match those under which testing has been conducted. **Therefore, before using Hachi-Hachi® SC insecticide for commercial applications, the user must test the product and its representative use on a sample of the ornamental plant to be treated to ensure that a phytotoxic response will not occur as a result of applications.**

Hachi-Hachi® SC insecticide works primarily through contact action, so good spray coverage is necessary for control of listed insects on the label. Applications should be made immediately after the solution is prepared. Under severe insect pressure, use the maximum rates and the shorter spray interval as specified on the label. Dense foliage or excessive growth will often prevent adequate coverage; adjust spray volumes accordingly. Mix with sufficient water and apply as a foliar spray to obtain uniform coverage. Treat plants when pests are immature or at a susceptible stage and populations are building, before plant damage occurs.

Applications may be made with high or low volume spray equipment that provides thorough coverage of the plant. Apply with properly calibrated spray equipment. A wetting agent or other spray adjuvant approved for use on the plant may be added to spray solutions according to the manufacturer's use instructions to achieve optimum control.

Though Hachi-Hachi® SC insecticide has been tested on a wide variety of common finished greenhouse ornamental plants (see Table 1), plant injury is always possible due to the varying environmental conditions under which this product may be applied. Young herbaceous ornamental plants such as bedding plant plugs may be more susceptible than mature plants. **Do not tankmix unless you first test Hachi-Hachi® SC insecticide on a small area under local conditions and with the representative use (e.g. plant size, tankmixes, with fungicides, etc.) prior to any commercial application.** If any sign of plant damage or phytotoxicity occurs during the small-scale test, do not make commercial applications of Hachi-Hachi® SC to that plant.

<b>Common Name</b>	<b>Scientific Name</b>
Arrowwood	<i>Viburnum</i> spp.
Ash	<i>Fraxinus</i> spp.
Cherry	<i>Prunus</i> spp.
Chrysanthemum	<i>Chrysanthemum</i> spp.
Coleus	<i>Solenostemon</i> spp.
Fanflower	<i>Scaevola aemula</i>
Gerbera (Transvaal Daisy)	<i>Gerbera</i> spp.
Lantana	<i>Lantana</i> spp.
Madwort	<i>Alyssum</i> spp.
Moss Rose	<i>Portulaca</i> spp.
Pentas	<i>Pentas lanceolata</i>
Schefflera	<i>Brassaia actinophylla</i>
Snapdragon	<i>Antirrhinum majus</i>
Yew	<i>Taxus media</i>



Zinnia	Zinnia sp.
<sup>1</sup> Local conditions can influence plant tolerance and may not match those under which these species were tested. Before using Hachi-Hachi® SC insecticide for commercial applications, test the product on a small sample of the ornamental plant to be treated with a representative plant to ensure plant injury does not occur.	

Temporary phytotoxicity may occur to some species of *Ageratum*, *Begonia*, *Colocasia*, *Geranium*, *Ground Orchid (Spathoglottis plicata)*, *Lobelia*, *Marigold (Tagetes spp.)*, Pansy (flowers), *Verbena*, and *Vinca*.

**DO NOT APPLY HACHI-HACHI SC INSECTICIDE TO SALVIA SPP., IMPATIENS SPP., GYPSOPHILA SPP., AND NEW GUINEA IMPATIENS DUE TO POTENTIAL PLANT INJURY.**

**APPLICATION RATE CHART FOR HACHI-HACHI® SC INSECTICIDE**

Greenhouse Ornamental Plants EXCEPT cut flowers		
Pest	Dilution Rate fl. oz./100 gallons	Use Directions
Aphids Leafhoppers Lepidopteran insects (early instars) Mealybugs Soft scale Thrips  Whitefly* Powdery mildew* Downy mildew*  *suppression only	21 to 32 fl oz per 100 gal  ( 0.22 to 0.34 lb. a.i. per 100 gal)	<ul style="list-style-type: none"> <li>100 gallons of finished spray solution will typically cover 20,000 square feet of greenhouse.</li> <li>Apply in sufficient water to obtain complete coverage of all plant parts. Applications may be made with high volume or low volume ground equipment only. Follow the spray equipment manufacturer's directions to determine the amount of spray solution required to obtain thorough coverage. Consult the spray equipment manufacturer's operator's manual, spray nozzle catalogs, and/or your crop advisor for more information.</li> </ul> <p><b>USE RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>Do not apply more than 32 fluid ounces/100 gallons (1.36 lbs ai/acre) per application.</li> <li>Do not apply more than 100 gallons of spray solution per 10,000 sq. ft. per application.</li> <li>Do not apply more than 2 applications per plant cycle.</li> <li>Do not apply more than 61 fluid ounces (0.64 lb ai)/100 gallons per plant cycle.</li> <li>Allow at least 10 days between applications.</li> <li><b>Do not spray to the point of runoff.</b></li> <li><b>Do not allow pesticide to enter or run off into public waterways, sewers, or drains.</b></li> </ul>

**Greenhouse Ornamental Plants Grown for Cuttings (e.g. cut flowers)**

<b>Pest</b>	<b>Dilution Rate fl. oz./100 gallons</b>	<b>Use Directions</b>
<p>Aphids Leafhoppers Lepidopteran insects (early instars) Mealybugs Soft scale Thrips</p> <p>Whitefly* Powdery mildew* Downy mildew*</p> <p>*suppression only</p>	<p align="center">14 to 32 fl oz per 100 gal</p> <p align="center">(0.15 to 0.34 lb ai per 100 gal)</p>	<ul style="list-style-type: none"> <li>• 100 gallons of finished spray solution will typically cover 20,000 square feet of greenhouse.</li> <li>• Apply in sufficient water to obtain complete coverage of all plant parts. Applications may be made with high volume or low volume ground equipment only. Follow the spray equipment manufacturer's directions to determine the amount of spray solution required to obtain thorough coverage. Consult the spray equipment manufacturer's operator's manual, spray nozzle catalogs, and/or your crop advisor for more information.</li> </ul> <p><b>USE RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>• Do not apply more than 32 fluid ounces/100 gal (1.36 lbs a.i./acre) per application.</li> <li>• Do not apply more than 100 gallons of spray solution per 10,000 square feet per application.</li> <li>• Do not apply more than 2 applications per plant cycle.</li> <li>• Do not apply more than 61 fluid ounces (0.64 lb ai)/100 gallons per plant cycle.</li> <li>• Do not apply more than 4 applications per year.</li> <li>• Allow at least 10 days between applications.</li> <li>• Preharvest Interval (PHI): 0 days</li> <li>• <b>Do not spray to the point of runoff.</b></li> <li>• <b>Do not allow pesticide to enter or runoff into public waterways, sewers, or drains.</b></li> </ul>

### Outdoor Ornamentals [Not registered for use in California]

In lath and shadehouses; nurseries; landscape ornamentals; ground covers; field- and container-grown ornamentals; non-bearing fruit and nut trees and vines in nurseries; Christmas trees

Pest	Dilution Rate	Use Directions
Aphids Coleopteran insects (including Japanese and Red-headed flea beetles) Lepidopteran insects (early instars) Leafhoppers Mealybugs Soft scale Thrips  Downy mildew* Powdery mildew* Whitefly*  *suppression only	14.0 to 27.0 fl oz/ per 100 gallons  (0.15 to 0.28 lb ai/ per 100 gallons)	<ul style="list-style-type: none"> <li>Apply using a minimum of 100 gallons of solution per acre.</li> </ul> <p><b>USE RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>Do not apply this product in residential areas.</li> <li><b>Do not apply by air.</b></li> <li>Do not make more than 2 applications per crop per growing season.</li> <li>Do not apply more than 53.5 fluid ounces (0.56 lb ai) per acre per growing season.</li> <li>Do not apply more than 84.0 fluid ounces (0.88 lb ai) per acre per year</li> <li>Allow at least 10 days between applications</li> </ul>

### Greenhouse Cucumber

Pest	Rate/Acre	Use Directions
Aphids	17.0 to 27.0 fl oz/acre (0.18 to 0.28 lb ai/acre)	<ul style="list-style-type: none"> <li>For applications to greenhouse cucumbers, apply using a minimum of 20 gallons/acre.</li> </ul>
Thrips  Fleabeetle* Pickleworm* Whiteflies* Powdery mildew* Downy mildew* *suppression only	21.0 to 27.0 fl oz/acre (0.22 to 0.28 lb ai/acre)	<p><b>USE RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>Do not apply more than 108 fl oz (1.13 lb ai) per year.</li> <li>Do not make more than 4 applications per year.</li> <li>Allow at least 14 days between applications.</li> <li>Preharvest Interval (PHI): 1 day</li> </ul>

### Greenhouse Tomato

Pest	Rate/Acre	Use Directions
Aphids Psyllids	17.0 to 24.0 fl oz/acre (0.18 to 0.25 lb ai/acre)	<ul style="list-style-type: none"> <li>For applications to greenhouse tomatoes, apply using a minimum of 60 gallons/acre.</li> </ul>
Thrips  Whiteflies* Powdery mildew *  *suppression only	21.0 to 24.0 fl oz/acre (0.22 to 0.25 lb ai/acre)	<p><b>USE RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>Do not apply more than 48.0 fl oz (0.50 lb ai) per year.</li> <li>Do not make more than 2 applications per year.</li> <li>Allow at least 10 days between applications.</li> <li>Preharvest Interval (PHI): 1 day</li> </ul>

## **Storage and Disposal**

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

**PESTICIDE STORAGE:** Store in original container, and keep tightly closed when not in use. Store in a cool, dry place.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

### **CONTAINER HANDLING:**

#### **[Nonrefillable plastic container (Less than 5 gallons)]**

Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. 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 by other procedures approved by state and local authorities.

#### **[Nonrefillable plastic container (Greater than 5 gallons)]**

Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying.

Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container  $\frac{1}{4}$  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.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or a mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Then offer for recycling if available, or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

#### **[Refillable plastic container]**

Refillable 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 a mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Return to point of sale. Then offer for recycling if available, or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**IMPORTANT: READ BEFORE USE**

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