Hachi-Hachi[®]SC



Active Ingredient

Tolfenpyrad 1H-Pyrazole-5-carboxamide, 4-chloro-3-ethyl-1-methyl-N-[[4-(4-

methylphenoxy)phenyl]methyl]-....

Other Ingredients.

TOTAL

Contains 1.31 lbs active ingredient per U.S. gallon

Keep Out of Reach of Children

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.)

Notice: Read the entire label before using. Use only according to label directions. Before buying or using this product, read Warranty Disclaimer inside label booklet. If terms are unacceptable, return at once unopened.

Refer to inside of label booklet for additional precautionary statements and directions for use, including storage and disposal.

EPA Reg. No. 71711-36-67690

FPL 20170811

1-800-535-5053.

Manufactured for: SePRO Corporation

11550 N. Meridian Street, Suite 600, Carmel, IN 46032 U.S.A

Suspension Concentrate

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Keep Out of Reach of Children WARNING / AVISO

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			
lf inhaled	 Move person to fresh air. If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. 		
If swallowed	 Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything to an unconscious person. 		
lf in eyes	 Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice. 		
If on skin or clothing	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 minutes. Call a poison control center or doctor for treatment advice. 		
HOTLINE NUMBER			
Have the product container or label with you when calling a poison control center or doctor or going for treatment. In case of emergency endangering health or the environment involving this product, call INFOTRAC at			

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants;
- Waterproof gloves;
 Shoes plus socks;

15.0%

85.0%

100.0%

175902

EPA Est. No. 067690-NC-002

- Shoes plus socks;
- Protective eyewear (goggles, face shield, or safety glasses).
 For handling activities, use a minimum of a half-face NIOSH approved respirator with organic vapor cartridges and any R or P combination filter (TC-84A). Handlers can also use other NIOSH approved respirators for organic vapor and particulates that contain oil that offer more protection such as a full-face respirator with the same cartridges and filter, a gas mask with an organic vapor cantister, or powered air purifying respirator with an organic vapor cartridge and HE filter. Protective eyewear is not required for handlers wearing a full-faced respirator or a gas mask.

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, 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.

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.

DIRECTIONS FOR USE

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.

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)

NONAGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, and greenhouses. Keep unprotected persons out of treated areas until sprays have dried.

USE INFORMATION

Hachi-Hachi® SC insecticide is a suspension concentrate containing 1.31 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).
 Do not spray to the point of runoff.
- Do not allow pesticide to enter or run off into public waterways, sewers, or drains.
- 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.
 Do not apply Hachi-Hachi SC insecticide through any type of
- irrigation system.RESTRICTION: Not for sale or use in the state of New York.

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 LIMITATIONS AND PRECAUTIONS FOR GREENHOUSE ORNAMENTAL PLANTS

- Do not apply this product as a smoke or aerosol.
- 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.
- 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.

Resistance Management

Hachi-Hachi® SC insecticide contains the active ingredient tolfenpyrad, an IRAC Group 21A insecticide. Use of the same mode of action repeatedly in the same field or area may result in reduced control and/or insect resistance. Unless targeting a single generation of a pest, Hachi-Hachi® SC insecticide applications should be alternated with other insecticidal modes of action. If targeting a single generation of a pest, do not apply more than two consecutive applications of Hachi-Hachi® SC insecticide before rotating to an insecticide with a different mode of action.

Resistance management strategies recommend that you DO NOT apply rates lower than recommended on the label. Contact your local extension specialist or certified crop advisor for additional Insecticide Resistance Management (IRM) or IPM recommendations. For more information about IRM, visit the Insecticide Resistance Action Committee (IRAC) website at <u>http://www.irac-online.org</u>.

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. No labeled dose rate should be exceeded.

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 ¾ 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:

Begin with clean equipment. Fill spray tank with ¾ 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 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.

Indoor Greenhouse 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 spray 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. The user MUST 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 smallscale test, do not make commercial applications of Hachi-Hachi® SC to that plant. To the extent consistent with applicable law, the user or buyer assumes all risks and liability associated with applying Hachi-Hachi® SC if commercial applications are made without first evaluating the representative use on the plant at a small scale on any species. To the extent consistent with applicable law, the user or buyer assumes all risks and liability associated with applying Hachi-Hachi® SC to any ornamental plant not listed in Table 1 (List of Plant Species Tested for Sensitivity to Hachi-Hachi® SC Insecticide).

TABLE 1 List of Plant Species Tested for Sensitivity to Hachi-Hachi® SC Insecticide1				
Common Name	Scientific Name			
Arrowwood	Viburnum spp.			
Ash	Fraxinus spp.			
Cherry	Prunus spp.			
Chrysanthemum	Chrysanthemum spp.			
Coleus	Solenostemon spp.			
Fanflower	Scaevola aemula			
Gerbera (Transvaal Daisy)	<i>Gerbera</i> spp.			
Lantana	Lantana spp.			
Madwort	Alyssum spp.			
Moss Rose	Portulaca spp.			
Pentas	Pentas lanceolata			
Schefflera	Brassaia actinophylla			
Snapdragon	Antirrhinum majus			
Yew	Taxus media			
Zinnia	Zinnia sp.			

¹ 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

Greenhou	Greenhouse Ornamental Plants EXCEPT cut flowers				
Pest	Dilution Rate fl. oz./100 gallons	Use Directions			
Aphids Leafhoppers	21 to 32 fl oz per 100 gal	• Do not apply more than 32 fl oz/100 gal (1.36 lbs a.i./acre) per application.			
Lepidopteran insects (early instars)		• Do not apply more than 100 gallons of spray solution per 10,000 square feet per application.			
Mealybugs Scale Thrips		 100 gallons of finished spray solution will typically cover 20,000 square feet of greenhouse. 			
·		• Do not apply more than 2 applications per plant cycle.			
Whitefly* Powdery mildew*		 Do not apply more than 64 fl oz/100 gal (2.72 lbs a.i./acre) per plant cycle. 			
		Allow at least 10 days between applications			
		Preharvest Interval (PHI): 0 days			
		 Do not spray to the point of runoff. 			
		 Do not allow pesticide to enter or runoff into public waterways, sewers, or drains. 			
		 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' operator's manual, spray nozzle catalogs, and/or your crop advisor for more information. 			

Greenhouse Ornamental Plants Grown for Cuttings (e.g. cut flowers)				
Pest	Dilution Rate fl. oz./100 gallons	Use Directions		
Aphids Leafhoppers	14 to 32 fl oz per 100 gal	• Do not apply more than 32 fl oz/100 gal (1.36 lbs a.i./acre) per application.		
Lepidopteran insects (early instars)		• Do not apply more than 100 gallons of spray solution per 10,000 square feet per application.		
Mealybugs Scale		 100 gallons of finished spray solution will typically cover 20,000 square feet of 		
Thrips		greenhouse. Do not apply more than 2 applications per plant cycle.		
Whitefly* Powdery mildew*		Do not apply more than 64 fl oz/100 gal (2.72 lbs a.i./acre) per plant cycle.		
		• Do not apply more than 4 applications per year.		
		• Allow at least 10 days between applications.		
		Preharvest Interval (PHI): 0 days		
		• Do not spray to the point of runoff.		
		 Do not allow pesticide to enter or runoff into public waterways, sewers, or drains. 		
		 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. 		
*suppression only				

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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 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. 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

By using this product, user or buyer accepts the following conditions, warranty, disclaimer of warranties and limitations of liability.

CONDITIONS: The directions for use of this product are believed to be accurate and must be followed carefully. However, because of extreme weather and soil conditions, use methods and other factors beyond the control of SePRO Corporation (SePRO), it is impossible for SePRO to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. To the extent consistent with applicable law, all such risks are assumed by the user or buyer.

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