



Changing the Game in Thrips Management

# Hachi-Hachi<sup>®</sup> SC Insecticide

Product Use Guide



# Hachi-Hachi<sup>®</sup> SC Insecticide

Hachi-Hachi SC is the newest release from SePRO's growing line of non-neonicotinoid insecticides. The new and improved formulation provides the same spectacular, broad-spectrum insect control with better crop safety. SePRO has worked diligently to bring the improved formulation of this highly effective chemistry to the ornamental market. In cooperation with IR-4, Hachi-Hachi SC has been extensively tested for both efficacy and crop safety across many species and environments. The results continue to demonstrate Hachi-Hachi SC to be a phenomenal tool for growers.

As a foundation chemistry for superior thrips control, Hachi-Hachi SC fills an immediate gap in the available chemistries for an affordable, viable thrips control options with no known resistance issues.

## Controlling Thrips, Aphids and More

Hachi-Hachi SC is labeled to control:

- thrips (including western flower thrips)
- aphids
- scale
- leafhoppers
- lepidopteran insects (early instar)

Hachi-Hachi SC gives added suppression of:

- whiteflies
- powdery mildew

Hachi-Hachi SC Quick Facts	
Use Site	Greenhouses
Formulation	15% Suspension Concentrate
Active Ingredient	Tolfenpyrad
Mode of Action (IRAC Code)	METI (21A)
Restricted-Entry Interval (REI)	12 hours
Signal Word	Warning
Packaging	64 fl oz container

Eggs, larvae, nymphs and adults of most targeted insects are controlled after coming in contact with or ingesting Hachi-Hachi SC. Target pests treated with Hachi-Hachi SC stop feeding immediately, preventing further crop damage. Additionally, Hachi-Hachi SC has shown ovicidal activity, suppression of ovipositioning, and antifeeding activity on targeted insect pests.

## About Hachi-Hachi SC

**Active Ingredient:** Hachi-Hachi SC contains the active ingredient, tolfenpyrad, which is classified by IRAC in Group 21A mitochondrial electron transport inhibitors. Hachi-Hachi SC inhibits the electron transfer system of energy metabolism in the mitochondria of susceptible insects. Tolfenpyrad is relatively new chemistry to the US ornamental market, but it is used extensively in many other countries.

**Formulation:** Hachi-Hachi SC is a much improved formulation compared to the discontinued petroleum-based emulsifiable concentrate (EC) formulation. Hachi-Hachi SC is a suspension concentrate (SC) containing 1.31 lbs of tolfenpyrad per gallon. The SC formulation is easy to handle, mix and apply. Hachi-Hachi SC can be mixed with other registered pesticides. For specific directions on tank mixing with different formulation types, refer to the Hachi-Hachi SC label.

## Using Hachi-Hachi SC

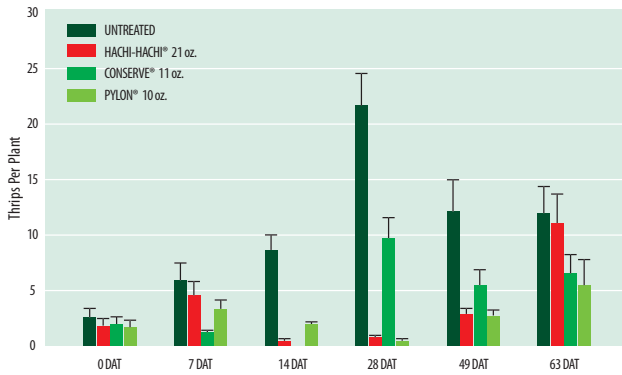
Hachi-Hachi SC is currently registered for use on ornamental crops grown in the greenhouse, including cut flowers. Hachi-Hachi SC is active via contact and ingestion, therefore proper spray coverage is important for control. Apply Hachi-Hachi SC as a foliar spray using sufficient carrier volume to obtain uniform coverage.

Hachi-Hachi SC Application Rate Chart		
Use site	Insects Controlled	Dilution Rate (fl. oz./100 gallons)
Greenhouse Ornamentals	Western flower thrips Aphids	21 - 32
Greenhouse Cut Flowers	Leafhoppers Lepidopteran Insects Scale Whiteflies	14 - 22



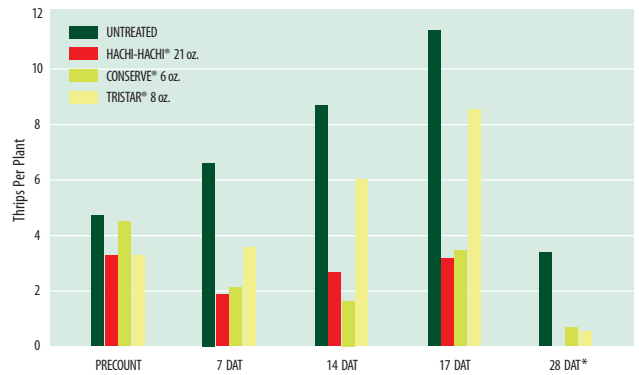
## Proven Tolfenpyrad Efficacy

### Western Flower Thrips Control



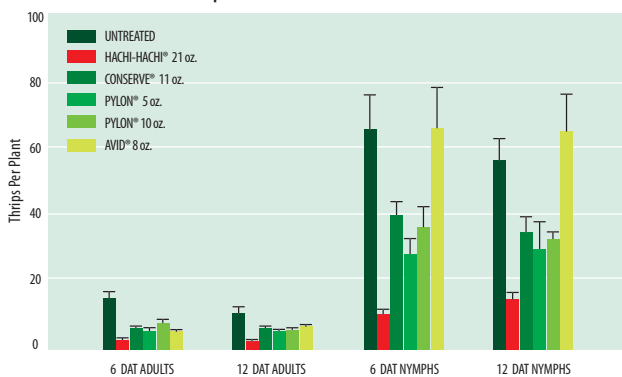
**Figure 1.** Data extracted from IR-4 Thrips Efficacy Trial on Gerbera Daisy, *M. Parella*. No data was collected for Conserve® at 14 DAT. All products were applied as a foliar spray on 0 and 14 DAT (days after treatment). Hachi-Hachi showed excellent control of western flower thrips up to 35 days after the final application. Lack of residual control beyond 35 DAT would not be expected with a contact insecticide.

### Western Flower Thrips Control



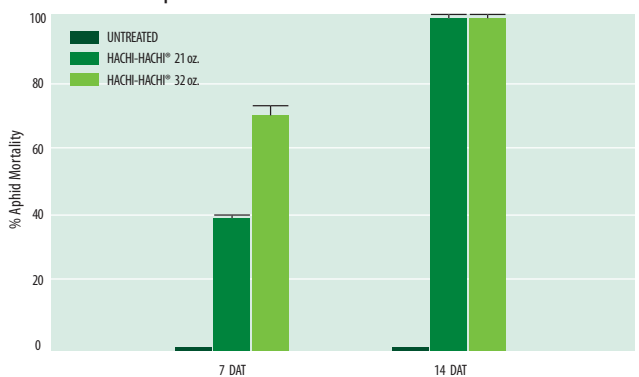
**Figure 2.** Data extracted from IR-4 Thrips Efficacy Trial on Marigold, *Gilreia* and *Siracusano*. All products were applied as a foliar spray on 0, 11, and 25 DAT (days after treatment). Only immature thrips were rated on 28 DAT. Hachi-Hachi showed excellent control of western flower thrips (comparable to Conserve) throughout the study. (\*) denotes significance from the untreated control within rating date ( $p=0.05$ ).

### Western Flower Thrips Control



**Figure 3.** Data extracted from IR-4 Thrips Efficacy Trial on miniature rose (blossoms), *D. Walsh*. All products were applied as a foliar spray on 0 DAT (days after treatment). Hachi-Hachi showed top control of adult and nymphal stages of western flower thrips in the blossoms of miniature rose.

### Green Peach Aphid Control



**Figure 4.** Data extracted from Green Peach Aphid trial on Yellow Sage, *R. Cloyd*. A single application of Hachi-Hachi was applied as a foliar spray at 0 DAT. Both rates of Hachi-Hachi showed 99% control of Green Peach Aphid 14 DAT. Means not followed by a common letter are significantly different ( $P \leq 0.05$ ) as determined by a Fisher's protected least significant difference (LSD) test.

For best results, begin applications at the first sign of pressure when pests are immature or at the most susceptible stage and populations are building. For repeat applications, allow at least 10 days between applications.

Hachi-Hachi SC is recommended to be used in a programmed rotation with other insecticides with different modes of action. Hachi-Hachi SC should not be applied more than twice during a cropping cycle. Additionally, rates lower than those listed on the label should not be applied.

### Hachi-Hachi SC Crop Tolerance

Hachi-Hachi SC has been tested on a wide variety of common greenhouse crops with no phytotoxic effects. SePRO continues to test additional species for crop sensitivity in an effort to develop a broad, expansive list of tolerant ornamental plants. To minimize plant sensitivity, utilize small droplet producing applicators, avoid pooling of spray solution on the plant and make applications during the cooler part of the day when the plants are under less stress. In all cases, the user should test Hachi-Hachi SC on a small sample of the plants to be treated to ensure satisfaction. **Do not apply Hachi-Hachi SC to impatiens, New Guinea impatiens, baby's breath (*gypsophila*), phlox, salvia or poinsettias.**



## Features of Hachi-Hachi SC Insecticide

- Superior thrips and aphid control with no known resistance
- Improved formulation that is easy-to-use and has better crop safety
- Active on eggs, nymphs and adults
- Contact activity that stops the damage caused by feeding
- Excellent efficacy on scale, leafhoppers and early instar lepidopteran insects

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