

**NOW REGISTERED
FOR OUTDOOR USE**

Changing the Game in Insect Management

Hachi-Hachi[®] SC Insecticide

Product Use Guide



Hachi-Hachi® SC Insecticide

The improved Hachi-Hachi SC Insecticide provides spectacular, broad-spectrum insect control with exceptional crop safety. SePRO has worked diligently to bring this highly effective chemistry to the ornamental industry. 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.

Controlling Thrips, Aphids and More

Hachi-Hachi SC is labeled to control:

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

Hachi-Hachi SC gives added suppression of:

- whiteflies
- powdery mildew
- downy mildew

Hachi-Hachi SC Quick Facts

Use Sites	Greenhouses, Nurseries, Landscapes, Christmas Trees, Non-bearing Fruit & Nut Trees/Vines
Formulation	15% Suspension Concentrate
Active Ingredient	Tolfenpyrad
Mode of Action (IRAC Group)	MET1 (21A)
(FRAC Group)	Pyrazole MET1 (39)
Restricted-Entry Interval (REI)	12 hours
Signal Word	Warning
Packaging	64 fl oz container

Eggs, larvae, nymphs and adults of 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 and suppression of ovipositioning on targeted insect pests.

About Hachi-Hachi SC

Active Ingredient: Hachi-Hachi SC contains the active ingredient, tolfenpyrad, which is classified by Insecticide Resistance Action Committee (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. As a fungicide, the Fungicide Resistance Action Committee (FRAC), recognized Hachi-Hachi SC in group 39. This technology is recognized to affect fungal respiration with no known resistance, confirmed by FRAC.

Formulation: Hachi-Hachi SC is a water-based suspension concentrate (SC) formulation 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 fertilizers and registered pesticides. For specific directions on tank-mixing with different products, 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 thorough spray coverage is important for optimal control. Apply Hachi-Hachi SC as a foliar spray using sufficient carrier volume to obtain uniform and complete coverage.

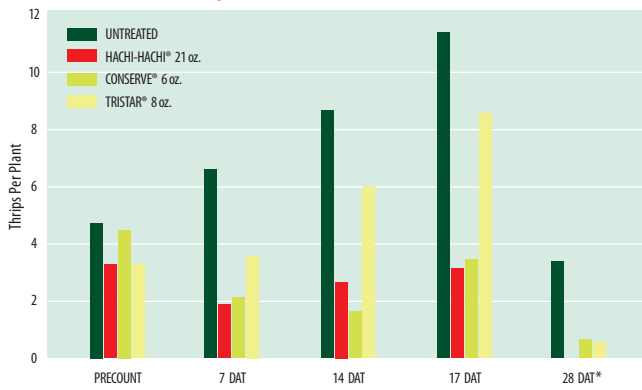
Hachi-Hachi SC Application Rate Chart

Use site	Insects Controlled		Rate (fl. oz./100 gallons)
Greenhouse Ornamentals	Thrips	Leafhoppers	21 - 32
Greenhouse Cut Flowers	Mealybugs	Lepidopteran Insects	
	Aphids	Whiteflies	14 - 22
Outdoor Ornamentals	Soft Scale	Coleopteran insects	14 - 27

Proven Tolfenpyrad Efficacy

Western Flower Thrips Control

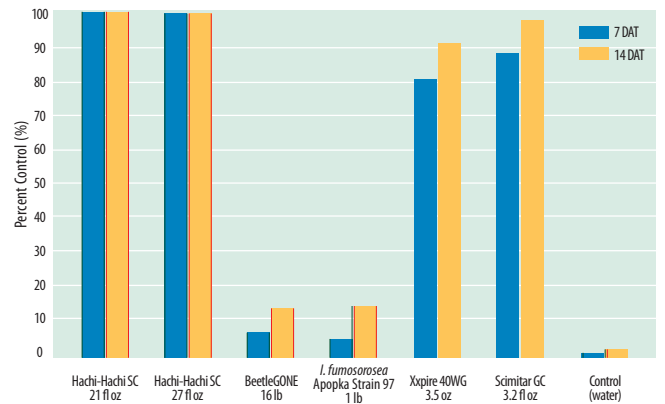
Gilrein 2008



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. (*) denotes significance from the untreated control within rating date (p=0.05).

Red-headed Flea Beetle Control

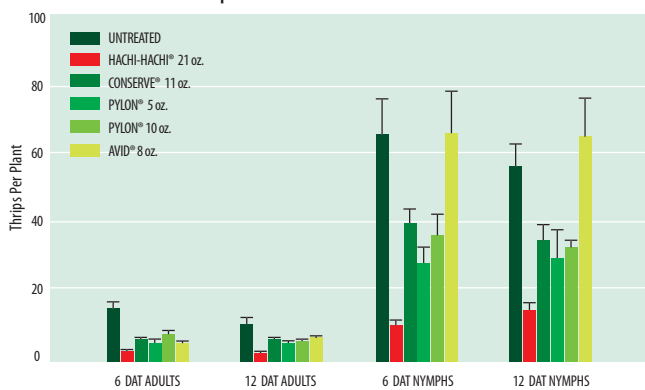
Gilrein 2016



Hachi-Hachi SC, *I. fumosorosea* Apopka Strain 97, and Scimitar were applied once. BeetleGONE and Xpire were applied twice.

Western Flower Thrips Control

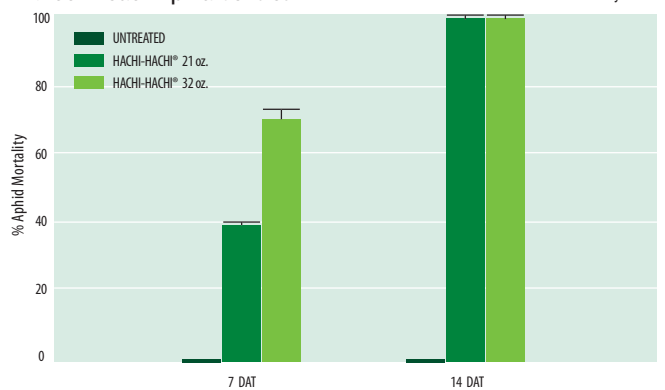
Walsh 2006



All products were applied once on 0 DAT.

Green Peach Aphid Control

Cloyd 2006



One application was made 0 DAT.

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

Hachi-Hachi SC is an ideal IPM tool and 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 affects. 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 (*gypsophyllia*), 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
- Controls egg, immature, and adult life stages
- Active via ingestion and contact
- Stops the damage caused by feeding
- Excellent efficacy on scale, mealybugs, leafhoppers, coleopteran insects and early instar lepidopteran insects
- Suppression of whiteflies, powdery and downy mildew

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