

Contains bifentazate, the active ingredient used in Floramite® SC.

**INSECTICIDE**



## TAKE CONTROL OF MITES WITH ACTUATE™ SC

Apply Actuate™ SC for immediate, long-lasting control of mites on ornamental plants in greenhouses, shadehouses, nurseries, landscape and interior scapes. Actuate SC provides two modes of action, on-contact and long residual control that lasts for up to 28 days.

Actuate SC contains the active ingredient bifentazate, a Group 20D acaricide. It's highly effective against nuisance mites while also being safe on beneficial mites and insects. Actuate SC is also effective on resistant mites allowing for optimal control with fewer applications and reducing the chances for resistance to develop. It's an excellent tank-mix partner and provides added benefits when used in resistance management or IPM programs.

### KEY BENEFITS

- Long-lasting residual protection
- Broad-spectrum miticide
- Immediate, on-contact control
- Safe on beneficial mites and insects
- Complete life cycle control

### KEY USES

- Commercial and residential landscape
- Conifer and Christmas tree plantations
- Greenhouses
- Interior and exterior landscapes
- Nurseries
- Recreational areas
- Rights-of-way

Refer to label for specific use restrictions.



### PRODUCT NOTES

#### EPA REGISTRATION NUMBER

91234-17

#### ACTIVE INGREDIENT

Bifentazate 22.6%

#### FORMULATION

Suspension concentrate

#### IRAC NUMBER

20D

#### SIGNAL WORD

Caution

#### PACKAGE SIZE

8 x 1 qt

24 x 8 oz

#### RESTRICTED USE

No



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## APPLICATION INFORMATION

Apply Actuate™ SC as soon as mites appear. Use lower rates when mite pressure is light or for preventative applications and use the higher rates when mite pressure is severe or for extended residual control. For maximum results, thoroughly cover the upper and lower leaves and any present fruit. Coverage of ornamentals with hard-to-wet foliage may be improved by using an adjuvant. Actuate SC may be tank-mixed with other insecticides if broad-spectrum control is necessary.

## MIXING INSTRUCTIONS

To prepare this product for application:

1. Fill the tank with ½ the required amount of water.
2. Add the specified amount of Actuate SC.
3. Begin agitation to completely disperse the product.
4. Add the remaining water required for the tank mix and, if possible, maintain agitation while applying.

Because the stability of this product can be negatively impacted in a high-temperature/high-pH situation, the spray mixture should be kept between pH 5.5 to 6.5.

Mix 4 to 8 fluid ounces of Actuate SC per 100 gallons of water (¼ to ½ teaspoon per gallon of water). Apply 1 to 4 quarts of the mixture per 100 square feet (100 to 400 gallons per acre) to the foliage using ground spray equipment (e.g., air blast, compressed air, ground boom, hose-end and hydraulic sprayers). The spray volume used is dependent on the size of the plants being treated, with larger plants requiring greater spray volumes.

## STRATEGIES FOR RESISTANCE PREVENTION

When used as directed, Actuate SC is highly effective against nuisance mites while also being selectively non-injurious to beneficial and/or predaceous mites and insects.

The active ingredient, bifenazate, has been shown to control mites that have developed resistance to commonly used pesticides. Due to this, fewer miticide/insecticide applications may be required for control and fewer resistance issues may arise.

Actuate SC is a Group 20D acaricide and is suitable for use in rotation with other miticides. It has not been found to cause cross resistance with other commercial miticides. Always use in moderation to minimize the chances of pest resistance developing.

## BENEFICIAL INSECTS

- *Aphidius colemani*
- *Aphidoletes aphidomyza*
- *Chrysoperla carnea*  
(Common green lacewing)
- *Coccinella septempunctata*
- *Cotesia marginiventris*
- *Diglyphus isaea*
- *Eretmocerus eremicus*
- *Hippodamia convergens*
- *Orius insidiosus*  
(Insidious pirate bug)
- *Stethorus punctum*

## PREDATORY MITES

- *Amblyseius spp.*
- *Iphiseius degenerans*
- *Neoseiulus spp.*
- *Phytoseiulus persimilis*
- *Typhlodromus spp.*
- *Zetzellia spp.*

Refer to product label for complete application and mixing instructions.

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## KEY INSECTS

Bamboo spider mite  
Citrus red mite  
Clover mite  
European red mite  
Lewis mite  
Pacific mite  
Southern red mite  
Spruce spider mite  
Strawberry mite  
Two-spotted spider mite

(Refer to product label for complete list)