

**FLOWERS AND FOLIAGE PLANTS
HOMEOWNER OUTDOOR INSECT CONTROL**

Pest	Insecticide and Formulation*	Amount Formulation Per Gallon Spray	Remarks and Precautions
Aphids	acephate		Follow label directions.
	acetamiprid		Follow label directions.
	bifenthrin		Follow label directions.
	cyfluthrin		Follow label directions.
	disulfoton		Follow label directions
	pyrethroids	ready to use and concentrate	Follow label directions.
	imidacloprid		Follow label directions.
	insecticidal soap	1%-2%	Thorough coverage is necessary. Spray must contact pest to be effective. Repeat spray 3 times at 5- to 7-day intervals.
	horticultural oils	1%-2%	Follow label directions.
	pyrethrum		Follow label directions.
	resmethrin		Follow label directions.
Beetles (foliage feeding such as Japanese beetle, elm leaf beetle)	acetamiprid		Follow label directions.
	carbaryl		Apply to foliage when injury first noted.
	disulfoton		Follow label directions
Caterpillars such as armyworm, cutworm and looper	acephate		Follow label directions.
	acetamiprid		Not for cutworm control. Follow label directions.
	<i>Bacillus thuringiensis</i> (Dipel, Thuricide)		Follow manufacturer's suggestions.
	bifenthrin	ready to use	Follow label directions.
	carbaryl		Follow label directions.
	cyfluthrin		Follow label directions.
	pyrethroids	ready to use and concentrate	Follow label directions.
Mealybug	acephate		Follow label directions.
	acetamiprid		Follow label directions.
	bifenthrin 0.012%	ready to use	Follow label directions.
	cyfluthrin		Follow label directions.
	imidacloprid		Follow label directions.
	insecticidal soap	1%-2%	Thorough coverage is necessary. Spray must contact pest to be effective. Repeat spray 3 times at 5- to 7-day intervals.
	horticultural oil	1%-2%	Coverage is important. Spray must contact pest.
	pyrethroids	ready to use and concentrate	Follow label directions.

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Plant Bugs Leafhopper	acephate		Follow label directions.
	acetamiprid		Follow label directions.
	carbaryl		Apply to foliage as needed.
	cyfluthrin		Follow label directions.
	insecticidal soap	1%-2%	Thorough coverage is necessary. Spray must contact pest to be effective. Repeat spray 3 times at 5- to 7-day intervals.
	pyrethroids	ready to use and concentrate	Follow label directions.
Scale Insects	acephate		Follow label directions.
	acetamiprid		Follow label directions.
	bifenthrin		Follow label directions.
	cyfluthrin		Follow label directions.
	horticultural oils	1%-2%	Follow label directions.
	imidacloprid		Follow label directions.
	insecticidal soap	1%-2%	
	malathion		Follow label directions.
pyrethroids	ready to use and concentrate	Follow label directions.	
Slug and Snail	iron phosphate		Follow label directions.
	methaldehyde		Attention should be given to moist areas or water leaks. Do not use in home gardens.
	mesuro 2B	1 lb/100 sq ft	Follow label directions.
Sowbug and Pillbug	carbaryl 5D	follow label directions	Clean up breeding and hiding places, i.e., treat any mulched area of ornamental shrubbery.
Spider Mite	bifenthrin 0.012%	ready to use	Follow label directions.
	disulfoton		Follow label directions.
	horticultural oil	1%-2%	
	insecticidal soap	1%-2%	Coverage is important. Spray must contact pest to be effective.
Stalk Borer	carbaryl 5D	follow label directions	Treat as often as needed beginning when first damage is noted. Do not allow ragweeds to grow near flower beds.
Thrips	acephate		Follow label directions.
	acetamiprid		Follow label directions.
	cyfluthrin		Follow label directions.
	disulfoton		Follow label directions.

*Numerous products containing insecticide are available to homeowners. Products containing the same insecticide may vary in the concentration of the active ingredient. Always consult the product label for information on rate of application.

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Thrips	imidacloprid		Follow label directions.
	insecticidal soap	1%-2%	Thorough coverage is necessary. Spray must contact pest to be effective. Repeat spray 3 times at 5- to 7-day intervals.
Whitefly	acephate		Follow label directions.
	acetamiprid		Follow label directions.
	bifenthrin 0.012%	ready to use	Follow label directions.
	cyfluthrin		Follow label directions.
	disulfoton		Follow label directions
	horticultural oils	1%-2%	
	imidacloprid		Follow label directions.
	insecticidal soap	1%-2%	
	malathion		Follow label directions
pyrethroids	ready to use and concentrate	Follow label directions.	

*Numerous products containing insecticide are available to homeowners. Products containing the same insecticide may vary in the concentration of the active ingredient. Always consult the product label for information on rate of application.

The following table provides the common name, brand name and lists manufacturers that package insecticides in a product(s) for homeowner use.

Common Name	Brand Name and Commonly Available Products
acephate	Orthene
acetamiprid	Ortho MAX Flower, Fruit & Vegetable Insect Killer RTU
<i>Bacillus thuringiensis</i> (Bt)	Biotrol, Dipel, Thuricide, Sok-Bt; found in various Green Light, Ortho, Ford's, Rigo and Safer products
bifenthrin	Ortho products
carbaryl	Sevin; found in various Ferti-lome, Garden Tech, KGro, Green Light, Ford's, Rigo and Dexol products
cyfluthrin	Bayer Advanced Rose and Flower Insect Killer
disulfoton	Bayer Advanced
horticultural oil	SunSpray Ultrafine, Saf-T-Side, Superior Oil, Golden Natural Spray Oil, Volck Oil; found in Green Light products, neem oil, organic insect control and others
imidacloprid	Bayer Advanced Garden 2-in-1 Plant Spikes
insecticidal soap	M-Pede and Safer's Soap
iron phosphate	Bayer Advanced Snail & Slug Bait
malathion	Ortho
pyrethrins	Pyrethrin; found in various Ortho, KGro, Green Light, Dexol, Rigo, Black Flag, Garden Safe products
pyrethroids	esfenvalerate, λ-cyhalothrin, permethrin, and others
pyrethrum	Pyrethrum; found in several Safer products
resmethrin	Resmethrin; found in Ortho, Dexol, Hot Shot and Rid-a-Bug products