

## ORNAMENTAL DISEASES (Home Garden)

Sherrie Smith

Disease	Product	Active Ingredient	FRAC Code	Rate	Comments
Bacterial leaf spots/ blights	Serenade Garden Disease Control**	<i>Bacillus subtilis</i>	44	RTU*	Approved for organic use.
	Serenade Garden Disease Control Concentrate**	<i>Bacillus subtilis</i>	44	4 - 8 tbs/gal	Approved for organic use.
	Bayer Advanced Natria Disease Control**	<i>Bacillus subtilis</i>	44	RTU*	Approved for organic use.
	Bonide Copper Dust**	copper hydroxide	M1	2 1/4 - 6 oz/gal	Use at the first sign of disease.
	Bonide Liquid Copper Fungicide Concentrate**	copper sulfate	M1	0.5 - 2 oz/gal	Also available RTU*
	Natural Guard Copper Soap RTU*	copper soap	M1	RTU*	Apply at first sign of disease.
	Ortho Disease B Gon Copper*	copper octanoate	M1	RTU*	One quart will treat 10 square feet.
Black spot Fungal leaf spots Powdery mildew Rusts	Ortho Garden Disease Control	chlorothalonil	M5	1 tbs	
	Bonide Fung-onil RTU*	chlorothalonil	M5	RTU*	Apply at 7 - 14 days. Apply to runoff.
	Bonide Fung-onil Concentrate	chlorothalonil	M5	2 - 2.75 tsp/gal	Apply at 7 - 14 days. Apply to runoff.
	Garden Tech Daconil Concentrate	chlorothalonil	M5	1.5 tsp - 1 tbs	Bud break. 7 - 14 days.
	Garden Tech Daconil Concentrate RTU*	chlorothalonil	M5	RTU*	Apply to runoff.
	Hi-Yield Vegetable, Flower, Fruit and Ornamental Fungicide	chlorothalonil	M5	6 tsp/gal	Apply to runoff.
	Monterey Fruit Tree, Vegetable and Ornamental Fungicide	chlorothalonil	M5	2.5 tsp/gal for 200 sq ft	Apply at first sign of disease.
	Ferti-lome Broad Spectrum Lawn and Garden Fungicide	chlorothalonil	M5	4 - 14 tsp/gal	Rate depends upon crop.
	Ferti-lome Broad Spectrum Lawn and Garden Fungicide RTU*	chlorothalonil	M5	RTU*	Spray to the point of runoff.
Bonide Mancozeb FL with Zinc Concentrate	mancozeb	M3	2 - 5 tsp/gal	Begin spraying when plants are well leafed out or at first sign of disease, in a full coverage spray at 7 - 10 day intervals throughout the season.	

(continued)

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Black spot Fungal leaf spots Powdery mildew Rusts <i>(cont.)</i>	Ferti-lome F-Stop Lawn and Garden Fungicide RTU*	myclobutanil	3	RTU*	Apply to the point when spray begins to run off the leaves. Treat once every 2 weeks throughout the season or until conditions for favorable disease development (warm, moist weather) are no longer present.
	Ferti-lome F-Stop Lawn and Garden Fungicide	myclobutanil	3	3 tbs/gal	
	Spectracide Immunox Plus Insect and Disease Control for Gardens RTU*	myclobutanil + permethrin	3	RTU*	Begin early in the season. Start treating when insects first appear or conditions favoring disease start to develop.
	Spectracide Immunox Multi-Purpose Fungicide Spray Concentrate for Gardens	myclobutanil	3	1 tbs/gal	Apply to the point when spray just begins to run off the leaves. Apply once every two weeks.
	Neem (various brands)	neem oil	NC***	RTU*	
	GreenCure**	potassium bicarbonate	NC***	1 - 2 tbs/gal	Approved for organic use.
	Kaligreen**	potassium bicarbonate	NC***	2.5 - 3 lb/A	Approved for organic use.
	MilStop**	potassium bicarbonate	NC***	2.5 - 3 lb/A	Approved for organic use.
	Actinovate Biological Lawn and Garden Fungicide**	<i>Streptomyces lydicus</i>	NC***	1 - 2 tsp/2 gal	One cup of solution usually treats about one 6-inch pot or its equivalent.
	Ferti-lome Dusting Sulfur**	sulfur	M2	4 tbs/gal (or use as a dusting powder directly out of the can)	DO NOT RE-ENTER TREATED AREAS FOR AT LEAST 24 HOURS AFTER APPLICATION IS MADE.
	Bonide Sulfur Plant Fungicide**	sulfur	M2	2 - 2 1/4 tbs/gal	Begin when diseases appear and repeat at 5 - 10 day intervals and after rains.
	BioAdvanced Science-Based Solutions All-In-One Rose & Flower Spray Concentrate	tebuconazole + tau-fluvalinate	3	5 1/4 tbs/gal	Apply the product to growing plants during early morning or late evening, when bees are not present.
	Bayer Advanced Garden – Disease Control for Roses, Flowers, Shrubs	tebuconazole	3	1 qt makes 42 gal of spray (or 1.52 tbs/gal)	Apply every 7 - 14 days during the growing season, starting when leaves first appear.
	Bayer Advanced All-In-One Rose and Flower Care	tebuconazole + imidacloprid	3	See label.	Soil drench. Protects against diseases for up to 6 weeks.

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Black spot Fungal leaf spots Powdery mildew Rusts ( <i>cont.</i> )	Bonide Infuse Systemic for Turf and Ornamentals	thiophanate-methyl	1	3 lb/1,000 sq ft	See label for warnings and crop restrictions.
	Ortho Rose and Flower Disease Control	triticonazole	3	2 fl oz/gal	Apply as soon as disease problems are noticed. Wait 2 - 4 weeks to re-apply if disease problems reappear. Each gallon is intended to treat 100 sq ft of garden area.
Fire Blight	Ferti-lome Fire Blight Spray	streptomycin sulfate	25	1 tbs/2 1/2 gal	Begin at blooming period, then every 3 - 4 days during bloom. Spray timing and coverage important for fire blight control. Professional spray equipment and applications may be necessary for larger trees.
Viruses	No chemical treatments				

\* RTU – Ready to use.  
 \*\* Approved for organic use.  
 \*\*\* NC – Resistance unknown.