

## VEGETABLE DISEASES (Home Garden)

Sherrie Smith

Disease	Product	Active Ingredient	FRAC Code	Rate	Days to Harvest	Comments
Bacterial Leaf and Fruit Spots (copper mostly effective against bacterial diseases, but labeled also for fungal diseases)	Serenade Garden Disease Control**	<i>Bacillus subtilis</i>	44	RTU*	0 - 14 days (see label)	
	Natria Disease Control**	<i>Bacillus subtilis</i>	44	RTU*	0	Approved for organic use.
	Bonide Copper Dust	copper hydroxide	M1	2 1/4 - 6 oz/gal	0	Begin to apply in plant bed as soon as plants are established. Repeat at 4 - 14 day intervals throughout growing season.
	Bonide Liquid Copper Fungicide Concentrate	copper sulfate	M1	0.5 - 2 oz/gal	0	Also available RTU.*
	Natural Guard Copper Soap RTU*	copper soap	M1	RTU*	Label	Apply at first evidence of disease.
Fungal leaf spots	Serenade**	<i>Bacillus subtilis</i>	44	2 - 4 fl oz/gal	0	Spray plants to runoff, covering both top and bottom surface of foliage to ensure thorough coverage.
	Serenade Garden Disease Control**	<i>Bacillus subtilis</i>	44	RTU*	0 - 14 days (see label)	
	Ortho Garden Disease Control	chlorothalonil	M5	1 tbs/gal	0 - 14 days (see label)	Apply in early morning or late evening using 1 gal spray per 250 sq ft of garden (10 x 25 ft). Good coverage is essential. Apply at first sign of disease and every 7 - 14 days as needed.
	Bonide Fung-onil RTU*	chlorothalonil	M5	RTU*	0 - 14 days (see label)	Apply at first sign of disease and every 7 - 14 days as needed.
	Bonide Fung-onil Concentrate	chlorothalonil	M5	2 - 2.75 tsp/gal	0 - 14 days (see label)	Apply at first sign of disease and every 7 - 14 days as needed.
	Garden Tech Daconil Concentrate	chlorothalonil	M5	1.5 tsp - 1 tbs/gal	0 - 14 days	Apply at first sign of disease and every 7 - 14 days as needed.
	Ferti-lome Liquid Fungicide	chlorothalonil	M5	2 tbs/gal	0	Apply at first evidence of disease, then 7 - 14 days as needed.
	Hi-Yield Vegetable, Flower, Fruit and Ornamental Fungicide	chlorothalonil	M5	6 tsp/gal	0	Begin applications when dew or rain occur and disease threatens. Use the highest rate and shortest interval specified when disease conditions are severe.
	Monterey Fruit Tree, Vegetable and Ornamental Fungicide	chlorothalonil	M5	2 1/2 tsp/gal for 200 sq ft	0	Begin applications when dew or rain occur and disease threatens. Use the highest rate and shortest interval specified when disease conditions are severe.

(continued)

**VEGETABLE DISEASES (Home Garden) – continued**

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Fungal leaf spots ( <i>cont.</i> )	Bonide Mancozeb FL with Zinc Concentrate	mancozeb	M3	2 - 5 tsp/gal	3 - 14 days (see label)	Use sufficient water for thorough coverage.
	Neem (various brands)	neem oil	NC***	RTU*	0	This product is most effective when applied on a 7 - 14 day schedule.
	GreenCure**	potassium bicarbonate	NC***	1 - 2 tbs/gal	1	Potassium bicarbonate fungicide primarily targets powdery mildew on many vegetables. Labeled for organic use.
	Kaligreen**	potassium bicarbonate	NC***	2.5 - 3 lb/A		
	MilStop**	potassium bicarbonate	NC***	2.5 - 3 lb/A		
	Actinovate® Lawn and Garden** (foliar and Pythium, Phytophthora, Rhizoctonia, Fusarium root rots)	<i>Streptomyces lydicus</i> WYEC 108	NC***	1/2 - 2 tsp/ 2 gal	0	May be used as a foliar spray or root drench. See label.
	Natria Fruit and Vegetable Ready to Use	sulfur + pyrethrins	M2	RTU*	1	For best control apply as a protective spray early in the season before the diseases are noticed. Re-spray every 7 - 10 days or after rain.
	Bonide Tomato and Vegetable Concentrate	sulfur + pyrethrins	M2	5 oz/gal	1	Thoroughly spray all areas of the plant, especially new shoots and the underside of leaves.
	Miracle-Gro Nature's Care 3-in-1 Insect, Disease, and Mite Control RTU*	sulfur + pyrethrins	M2	RTU*	1	

Virus Diseases      No chemical controls

\* RTU – Ready to use.

\*\* Labeled for organic use.

\*\*\* NC – Resistance not known.