



Homeowner's Guide to Fungicides

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Diseases in home gardens, orchards, and landscapes do not always cause total losses, but they can be serious problems if left unmanaged. As a rule, chemicals are not recommended as the only means of disease control for homeowners. Cultural practices such as sanitation, irrigation management, attention to plant health, rotation, and selection of disease-resistant varieties are usually enough to control diseases. Chemicals may be required, though, and should be used as a supplement to good management practices. Before using a fungicide or bactericide, be sure that the disease is identified correctly to help in product selection. Then confirm that the chosen product will control the disease in question AND that it can be used legally on the plants to be treated. The purpose of this guide is to help homeowners with the selection of fungicides for home gardens, orchards, and landscapes. The products included in this guide are specifically labeled for home use. These fungicides are generally available in garden centers and retail outlets, and can be purchased in small, easy-to-use packages. Only general product information is provided by this guide. Therefore, users should follow product labels carefully for usage, rates, and approved crops.

Fungicide Selection Chart

("X" indicates that the fungicide is approved for use on those plants)

	<i>captan</i>	<i>chlorothalonil</i>	<i>copper</i>	<i>mancozeb</i>	<i>myclobutanil</i>	<i>phosphorus acid</i>	<i>propiconazole</i>	<i>streptomycin sulfate</i>	<i>sulfur</i>	<i>tebuconazole</i>	<i>triforine</i>
lawn			X		X	X	X				
flowers	X	X	X	X	X	X	X	X	X	X	X
rose	X		X	X	X	X	X	X	X	X	X
trees & shrubs	X	X	X	X	X	X	X	X	X	X	X
apple/pear	X		X		X	X	X	X	X		
peach/plum/cherry	X	X	X		X	X	X		X		
berries & brambles	X		X		X	X					
grape	X		X	X	X	X					
nuts			X			X					
asparagus				X	X						
bean/pea	X	X	X						X		
beet	X		X								
carrot/parsnip		X	X								
celery		X	X								
cole crops		X	X						X		
corn (sweet)	X	X	X	X			X				
cucurbits (vine crops)	X	X	X	X	X						
eggplant			X								
leafy greens	X		X								
onion		X	X	X							
pepper		X	X								
potato		X	X	X							
tomato		X	X	X	X						

Disease Control Products for Homeowner Use

	Trade Names	Uses & Safety Information	Crops
Captan	Bonide Captan 50 WP	Protectant foliar treatment for suppression of fungal diseases, seed dressing to prevent rots and damping-off. Use a mask when handling.	Ornamentals: flowers, shrubs Fruit: apple, blueberry, cherry, grape, peach, plum, strawberry Vegetables: seed treatment for bean/pea, beet, corn (sweet), cucurbits (vine crops), leafy greens
	Bonide Fruit Tree Spray		
	Hi-Yield Captan 50 WP		
	Southern Ag Captan 50 WP		
Chlorothalonil	Bonide Fungonil Concentrate	Contact fungicide for black spot, fruit rots, leaf blight, leaf spots, powdery mildew, rust, scab, and other fungal diseases. Pre-harvest interval 0-14 days (depends on crop); refer to label.	Ornamentals: flowers, shrubs, trees Fruit: blueberry, cherry, peach, plum Vegetables: bean/pea, carrot/parsnip, celery, cole crops, corn (sweet), cucurbits (vine crops), onion, peppers
	Bonide Fungonil RTU		
	Ferti-lome Broad Spectrum Landscape and Garden Fungicide		
	Garden Tech Daconil Fungicide		
	Hi-Yield Vegetable, Flower, and Ornamental Fungicide		
	Ortho MAX Garden Disease Control		
	Sevin Daconil		
	Southern Ag Liquid Ornamental and Vegetable Fungicide		
Copper	Bonide Copper Dust	Contact fungicide for control of anthracnose, bacterial spot, bacterial blight, downy mildew, fire blight, fruit rots, leaf spots, powdery mildew, rusts, and other fungal and bacterial diseases. *Approved for organic use. Pre-harvest interval 0 days; refer to label.	Ornamentals: lawn, flowers, shrubs, trees Fruit & nuts: apple, blueberry, blackberry, cherry, grape, peach, pear, plum, raspberry, strawberry, walnut
	Bonide Liquid Copper Concentrate*		
	Bonide Liquid Copper RTU*		
	Camelot Fungicide/Bactericide Concentrate		
	Ferti-lome Natural Guard Copper Soap*		
	Natural Guard Copper Soap Liquid Fungicide Concentrate*		
	Ortho Disease B Gon Copper Fungicide Concentrate		
	Ortho Elementals Garden Disease Control*		
	Southern Ag Liquid Copper Fungicide*		

	Trade Names	Uses & Safety Information	Crops
Mancozeb	Bonide Mancozeb Flowable with Zinc	Contact fungicide for control of anthracnose, black spot, downy mildew, fruit rots, leaf spots and blights, petal and stem blights, and other fungal diseases. Pre-harvest interval 5-120 days, crop dependent.	Ornamentals: flowers, shrubs, trees Fruit: grape Vegetables: corn (sweet), cucurbits (vine crops), onion, potato, tomato
	Southern Ag Dithane M-45		
Myclobutanil	Ferti-lome F-Stop Granules	Systemic foliar treatment for suppression of anthracnose, black spot, brown patch, leaf spots, powdery mildew, petal blight, rust, and other fungal diseases. Pre-harvest interval 0-180 days, crop- dependent; see label. **for use with fruit and vegetables	Ornamentals: lawn, flowers, shrubs, trees Fruit: apple, blackberry, cherry, grape, peach, plum, strawberry Vegetables: asparagus, cucurbits (vine crops), tomato
	Green Light Fung-Away Systemic Lawn Fungicide		
	Spectracide Immunox Multi-Purpose Fungicide Concentrate**		
	Spectracide Immunox Lawn Disease Control Concentrate		
	Spectracide Immunox Lawn Disease Control Granules		
Phosphorus Acid	Monterey Agri-Fos Systemic	Fully systemic control of downy mildew, root rots and other diseases caused by water-molds.	Ornamentals: trees, lawn, flowers, shrubs Fruits & nuts: apple, blackberry, blueberry, grape, peach, plum, raspberry, strawberry, chestnut, hickory nuts, pecan, walnut Vegetables: asparagus, bean/pea, cole crops, cucurbits (vine crops), onion, peppers, potato, tomato
Propiconazole	Bonide INFUSE Concentrate	Systemic fungicide that controls anthracnose, black spot, brown patch, flower blight, leaf spots, powdery mildew, rust, scab, and other fungal diseases. Pre-harvest interval 14 days, see label before use.	Ornamentals: turf, flowers, shrubs, trees Fruit: apple (non-bearing), cherry, peach, plum Vegetables: corn (sweet)
	Bonide Infuse Lawn and Landscape Granules		
	Ferti-lome Liquid Systemic Fungicide		
	Green Light Systemic Fungicide		
Streptomycin Sulfate	Ferti-lome Fire Blight Spray	For control of bacterial diseases such as bacterial wilt, crown gall, and bacterial leaf spots.	Ornamentals: flowers, shrubs Fruit: apple, pear

	Trade Names	Uses & Safety Information	Crops
Sulfur	Bonide Sulfur Dust*	*Approved for organic use	Ornamentals: flowers, shrubs, trees Fruit: apple, cherry, pear, peach, plum Vegetables: bean/pea, cole crops
	Bayer Advanced Natria Insect, Disease, and Mite Control		
	Ferti-lome Dusting Sulfur		
	Hi-Yield Dusting Wettable Sulfur		
	Safer Garden Fungicide Concentrate*		
	Southern Ag Wettable or Dusting Sulfur		
Tebuconazole	Bayer Advanced Disease Control for Roses, Flowers, and Shrubs	Systemic fungicide for control of anthracnose, black spot, leaf spot, petal blight, powdery mildew, rust, scab, and other fungal diseases.	Ornamentals: flowers, shrubs, trees
	Bonide Rose Rx Systemic Drench Concentrate (tebuconazole + imidacloprid)		
	Bayer Advanced 3-in-1 Insect, Disease, and Mite Control (tebuconazole + imidacloprid + tauflualinate)		
Triforine	Ortho Rose Pride Disease Control Concentrate	Controls and prevents black spot, powdery mildew, rust, and other fungal diseases.	Ornamentals: flowers, shrubs, trees

Finding Dealers

Dealer	Web site	Notes
Bayer Advanced	http://www.bayeradvanced.com	Use 'Locate a Store' to find local dealers.
Bonide	http://www.bonide.com	Use 'Dealer Locator' tool to find garden centers near your ZIP code.
Ferti-lome	http://www.fertilome.com	Use 'Find a Local Garden Center' tool to locate a dealer near your ZIP code. Ferti-lome also manufactures Hi-Yield branded products.
Garden Tech	http://www.gardentech.com	See 'Contact Us' for toll-free consumer support and dealer locator.
Home Depot	http://homedepot.com	Carries some Ortho garden products.
Johnny Seeds	http://www.johnnyseeds.com	An online supplier of organic gardening supplies.
Lowes	http://www.lowes.com	Carries selected Bayer, GardenTech, Ortho, and Spectracide products.
Planet Natural	http://www.planetnatural.com	An online supplier of organic gardening supplies.
Rural King	http://www.ruralking.com	Carries some Ortho garden products.
Scotts	http://www.scotts.com	See 'Locate Retailer' to find local outlets for Ortho products.
Southern States	http://southernstates.com	Carries wide range of Bonide products.
Spectracide	http://www.spectracide.com	See 'Customer Help' to find nearby retail outlets.
Tractor Supply	http://www.tractorsupply.com	Carries selected Bonide, GardenTech, and Ortho products.

Additional Information

- Disease and Insect Control Programs for Homegrown Fruit in Kentucky (ID-21)
<http://www.ca.uky.edu/agc/pubs/id/id21/id21.pdf>
- Disease Management in the Home Lawn (ID-105)
<http://www.ca.uky.edu/agc/pubs/id/id105/id105.htm>
- Fungicides for Management of Landscape Woody Ornamental Diseases (PPFS-OR-W-14)
http://www.ca.uky.edu/agcollege/plantpathology/ext_files/PPFShtml/PPFS-OR-W-14.pdf
- Home Vegetable Gardening (ID-128)
<http://www.ca.uky.edu/agc/pubs/id/id128/id128.pdf>
- Woody Plant Disease Management Guide for Nurseries and Landscapes (ID-88)
<http://www.ca.uky.edu/agc/pubs/id/id88/id88.pdf>

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