Fungicides and Bactericides Available for Home Use 2017

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Common chemical name	Trade name	Comments
Bacillus subtilis	Bayer Natria Disease Control Natria Lawn Rose Veg Fruit Serenade Garden Disease Control	A biological product. For control or suppression of several diseases such as black spot on rose, brown patch and dollar spot on turf.
captan	Bonide Fruit Tree Spray Captan 50 WP, Captan Wettable,	Primarily for fruit trees, black spot and crabapple scab. Contact or protectant fungicide.
chlorothalonil	Ortho Garden Disease Control Bonide Fung-onil- Multi-Purpose Fungicide RTU and concentrate, Garden Tech Daconil RTU and concentrate and Syngenta Weatherstik	General purpose fungicide for vegetables and ornamentals. Contact or protectant fungicide. Good for needlecast diseases on evergreens.
copper salts of fatty and rosin acids, basic copper sulfate, copper octanoate soap	Bonide Copper Soap Spray, Dust carbaryl plus copper, Liquid Copper, Ortho Elementals Garden Disease Control, Monteray Liqui-cop	Can be helpful in bacterial and fungal disease control Contact or protectant fungicide.
***difenconozole**	Bonide Rose Shield	Broad spectrum with trans-laminar systemic. Good for powdery mildew, leaf spot, cane cankers on rose.
mancozeb	Bonide Mancozeb Flowable w/ zinc	General purpose contact fungicide for ornamentals and vegetables
***myclobutanil**	Spectracide Immunox Spectracide Immunox Plus - contains myclobutanil, permethrin (RTU and conc), 3 in 1 Spectracide Immunox Lawn Disease Control Granules and Hose-end liquid applicator Green Light Fung-Away – granules for turf	Excellent on black spot on rose, powdery mildews and other common landscape diseases. Should be alternated with other fungicides like chlorothalonil for black spot. Systemic action moves from top of leaf to lower surface and to the new growth.
paraffinic oil	Sunspray Ultra-Fine Oil, Bonide All Seasons Spray Oil Ortho Volck Oil	Powdery mildew control and insect control both as a dormant oil and hort oil in the growing season
phosphorus acid salts	Agri-Fos Systemic Fungicide Monterey	Systemic for downy mildews and Oomycete diseases. Active on Phytophthora and Pythium. Not effective on downy mildew of cucumbers or late blight on tomato.
phosphonate, aluminum-tris	Monterey Aliette	Systemic for downy mildew and Phytophthora diseases.
potassium bicarbonate	Bonide Remedy 85% Milstop Monterey Bi-Carb	Biorational fungicide for powdery mildew and other fungal diseases. Good on powdery mildew control but little control of black spot on rose. Contact or protectant fungicide.
***propiconazole**	Bonide Infuse Systemic Disease Control Spectracide Immunox for Lawns – RTU and granules	Systemic turf and ornamental fungicide. Same active as the commercial product Banner MAXX.
hydrogen dioxide	Oxidate oxidizing agent field and greenhouse	Foliar disease on vegetables, herbs, and fruit

neem oil, sesame oil, oil of rosemary, clove, peppermint	Dyna-Gro Pure Neem Oil, Green Light Rose Defense Garden Safe Fungicide 3 in 1, Bonide Rose Rx, Bonide Bon-Neem Green Light Neem Concentrate Dr. Earth oil spray	Good for powdery mildews and some insects. For best results coverage of all plant parts including undersides of leaves is necessary.
sulfur	Bonide Sulfur Plant Fungicide, Orchard Spray, Bonide Tomato-Vegetable Fungicide, Bonide sulfur dust Safer Garden Fungicide, Bayer Natria Rose, Fruit and Veg Ortho 3 in 1	Good organic choice, plant damage can occur when used at high temperatures. Some products combined with insecticide.
***tebuconazole**	Bayer Advanced – 3 in 1, Disease Control for Roses, Flowers and Shrubs, Bayer All in One	Systemic rose and ornamental fungicide. Good on rusts, powdery mildews, anthracnose, black spot
thiophanate-methyl	Infuse Lawn and Landscape, Scott's Lawn Fungus Control granules, Systemic	Broad spectrum disease control on turf.
***triadimefon**	Bayer Advanced Lawn -Fungus Control for Lawns- granules Bonide Fung-onil Lawn Disease Control, Bonide Lawn Fungicide w/ Bayleton (granules) Bayer Advanced Lawn - Fungus Control for Lawns 1% Granules Fortify Disease Buster 0.5% Granules	Good on powdery mildew, rusts, some leafspots, (see label)
***triforine**	Ortho RosePride Rose & Shrub Disease Control Ortho Orthonex Insect and Disease Control - triforine and Orthene (acephate)	Good for powdery mildews, and black spot on rose. See label for other diseases.
***triticonazole**	Ortho Rose and Flower	Powdery mildew and leaf spot
streptomycin sulfate	Ferti-lome Fire Blight Control	Antibiotic
Combined Fruit tree sprays	Fruit Tree Spray - captan, malathion, carbaryl (Sevin) Bonide Fruit Tree Spray	Some have sulfur, methoxychlor, or other pyrethrins
Combined Roses & flowers	Immunox Plus Ortho Rose & Flower Bayer Advanced Garden All in One Rose & Flower Care Bonide Garden Dust Bonide Systemic Drench	Myclobutanil and permethrin (RTU and concentrate) Triticonizole Tebuconazole, imidacloprid, fertilizer. Pyrethrins, sulfur, copper sulfate for vegs, fruit and flowers. Tebuconazole plus imidacloprid

***** These are systemic DMI fungicides with a similar mode of action. To prevent resistance development alternate with fungicides from a different group of chemicals, not related, such as chlorothalonil or mancozeb

Note: This is a list of products that are available, spring 2017 from garden centers, Home Depot, Lowe's, and Alexander's in Newark. This is not a recommendation. Always use according to the label. Similar products with the same active ingredients can also be found and purchased on-line.

Compiled by Nancy Gregory, Plant Pathologist, University of Delaware, April 14, 2017

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