

ORNAMENTAL DISEASES (Commercial)

Stephen Vann

Disease	Product	Active Ingredient	FRAC Code*	Rate	Comments ¹
Phytophthora Root Rot Pythium Diseases (conifer transplants)	Aliette 80WDG	fosetyl-AI	33	6 - 12 oz/100 gal	Drench soil with 2 pts solution per sq ft as needed.
	Subdue MAXX	mefenoxam	4	0.3 - 1.25 fl oz/ 100 gal	Apply 1 pt solution per sq ft. Use low rate on Pothos at 3 month intervals due to potential injury. Use higher rates on Azaleas at 1 - 2 month intervals. See label. See label for drench rates for seedlings, potting, etc.
	Adorn	fluopicolide	43	1 - 4 oz/100 gal	Must be tank-mixed with another labeled fungicide for resistance management.
	Hurricane	fludioxonil + mefenoxam	12 + 4	See label.	Soil drench. See label.
	Fenox	mefenoxam	4	0.02 - 1 oz/100 gal	Apply 1 pt per sq ft. See label for precautions.
	Stature	dimethomorph	40	See label.	May be applied as a spray, soil drench or through irrigation systems.
	Segway	cyazofamid	21	See label.	Group 21 fungicide. Crown rots and damping off. 14 - 28 day interval.
	Banrot 40WP/8G	etridiazole + thiophanate-methyl	14 1	See label.	
	Aliette 80WDG	fosetyl-AI	33	8 - 12 oz	Mix with 1 cu yd potting soil just prior to potting.
	Subdue MAXX	mefenoxam	4	0.13 - 0.25 fl oz	Mix with 1 cu yd potting soil just prior to potting.
Aliette 80WDG	fosetyl-AI	33	2.5 lb/100 gal	Dip roots into solution prior to transplanting.	
Alude	salts of phosphorus acid	33	See label.	Foliar spray/soil drench. See label.	
Powdery Mildew	Eagle 20EW	myclobutanil	3	8 oz/100 gal	10 - 14 day schedule. See label restrictions.
Cercospora Leaf Spot	Terraguard SC	triflumizole	3	4 - 8 oz/100 gal	See label information.
Entomosporium Spot	Daconil Ultrex	chlorothalonil	M5	1.4 lb/100 gal	Begin application at first evidence of disease activity. Coverage is essential.
Rusts, Black Spot	Heritage 50WG	azoxystrobin	11	4 oz/100 gal	Same as above. Do not use Heritage on crabapple.
Ovulinia Petal Blight	Compass 50WG	trifloxystrobin	11	4 oz/100 gal	Same as above.
Anthracnose, Scab	Banner MAXX ¹	propiconazole	3	6 fl oz/100 gal	Same as above.
	Bayleton 50WSP	triadimefon	3	5.5 oz/300 gal	Same as above.
	Cygnus 50WG	kresoxim-methyl	11	1 - 6 oz/100 gal	Non-residential landscape, outdoor nurseries, greenhouses.
	Insignia	pyraclostrobin	11	4 - 8 oz/100 gal	Use preventively. Begin at first symptom development. See label.
	Kaligreen ²	potassium bicarbonate	---	1 - 3 lb/100 gal/acre	For powdery mildew. See label. Can be used for organic production.
	Milstop ²	potassium bicarbonate	---	2 - 3 lb/acre	See label. Contact fungicide. Can be used for organic production.
	Protect T/O	Mn/Zn EBDC	M3	1 - 2 WSP/100 gal	Apply at first evidence of disease. Apply 7 - 21 day intervals. See label.
	3336 WP	thiophanate-methyl	1	12 - 16 oz/100 gal	Foliar spray and drench applications. See label.
	Clevis	mancozeb + myclobutanil	M3 + 3	2 lb/100 gal	Apply at first evidence of disease, then at 7 - 10 day interval. See label.
	ProPensity 1.3ME	propiconazole	3	2 - 24 oz/100 gal	See label. Various leaf spots, powdery mildew and various rusts.
	Pageant	pyraclostrobin + boscalid	11 + 7	6 - 12 oz/100 gal	See label. For powdery mildew, downy mildew, rust and aerial <i>Phytophthora</i> .
	Sextant	iprodione	2	1 - 2.5 qt/acre	See label. Can be used as a foliar spray, dip or drench.
	Junction DF	mancozeb + copper hydroxide	M3 M1	See label.	Fungicidal and bactericidal.
	Concert	propiconazole + chlorothalonil	3 M5	See label.	Do not use in greenhouses.
	TwoSome	thiophanate-methyl + iprodione	1 2	1.7 - 3.4 oz/100 gal	Apply at 10 - 14 day intervals.
	Torque	tebuconazole	3	See label.	Apply at 14 - 21 day intervals.
	Palladium	cyprodinil + fludioxonil	9 + 12	2 - 4 oz/100 gal	Apply at 7 - 14 day intervals.

ORNAMENTAL DISEASES (Commercial) – continued

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Daylily Rust	Heritage 50WG	azoxystrobin	11	See label.	
	Banner MAXX ¹	propiconazole	3	See label.	See label information.
	Strike	triadimefon	3	4 oz/100 gal	Commercial greenhouse and nursery use only.
	Hoist	myclobutanil	3	3 - 6 oz/100 gal	Apply on a 14 - 21 day schedule.
	Contrast 70WSP	flutolanil	7	3 oz/100 gal	See label information. Apply at first evidence of disease activity.
Rhizoctonia Web Blight, Rhizoctonia Diseases, Botrytis Petal Blight	Heritage 50WG	azoxystrobin	11	4 oz/100 gal	Apply at first sign of disease and repeat every 14 days as needed. Good coverage is essential. Some products can be used as a soil or potting mix drench – see label for details.
	Chipco 26019	iprodione	2	1 - 2 oz/100 gal	
	Medallion	fludioxonil	12	2 pkt/100 gal	
	Daconil WeatherStik	chlorothalonil	M5	1 3/8 pt/100 gal	
	Contrast 70WSP	flutolanil	7	3.6 oz/100 gal	Follow label carefully.
	26/36 Fungicide	iprodione + thiophanate-methyl	2	See label.	Foliar spray, drench or dip applications.
	26GT	iprodione	2	See label.	Foliar spray, drench or dip applications beginning at first evidence of disease.
Southern Blight	Prostar	flutolanil	7	See label.	Drench or dip application. See label.
	Medallion	fludioxonil	12	See label.	Drench application. See label.
Sclerotinia Flower Blight (Camellia)	Bayleton 50WSP	triadimefon	3	5.5 oz/300 gal	Apply prior to flowering and again as needed on a 14 day schedule.
Downy Mildew	Heritage 50WG	azoxystrobin	11	4 oz/100 gal	Apply to foliage at first sign of disease and repeat in 14 days. Rotate with mancozeb after 2 applications.
	Compass 50WG	trifloxystrobin	11	4 oz/100 gal	
	Mancozeb 80W ¹	mancozeb	M3	1.5 lb/100 gal	Apply weekly as needed. Good coverage is essential.
	Aliette 80WDG	fosetyl-AI	33	2.5 lb/100 gal	Follow label carefully.
	Insignia	pyraclostrobin	11	4 - 8 oz/100 gal	Use preventively. Begin at first sign of disease.
	Fungaflor TR	imazalil	3	2 oz can/1,500 sq ft	Greenhouse use only. Systemic. Aerosol smoke. 24 hr REI.
	Fenstop	fenamidone	11	7 - 14 oz/100 gal	Not for residential use. Can be applied as a soil drench.
Fire Blight	Agrimycin 17	streptomycin	25	100 ppm	Apply at early bloom and repeat 4 times at 10 day intervals.
	Aliette 80WDG	fosetyl-AI	33	2.5 lb/100 gal	Follow label carefully.
Needle Blights/Casts (Christmas trees)	Quadris 2.08 FL	azoxystrobin	11	6.2 - 15.4 fl oz/A	Apply at first sign of disease on a 14 - 21 day schedule.
	Cleary's 3336F	thiophanate-methyl	1	20 fl oz/100 gal	Rotate with other fungicides in alternate applications.
	Daconil WeatherStik	chlorothalonil	M5	3 - 5 pt/100 gal	
	Daconil Ultrex	chlorothalonil	M5	2.5 - 5 lb/100 gal	First application when shoots 1/2 inch, then follow label information.
	Clevis	mancozeb + myclobutanil	M3 + 3	2 lb/100 gal	Apply at first sign of disease, then 7 - 10 day interval. See label.
	Savvi	propiconazole	3	6 - 8 fl oz/100 gal	Apply at 21 day intervals. Begin before disease development.
Virus Diseases (mosaic, ringspots, etc.)	No chemicals available				

* **FRAC Code** – Fungicides with the same FRAC Code have the same mode of action. See <http://www.frac.info/frac/index.htm> for an explanation of the FRAC Codes. Rotation of fungicides with different FRAC Codes could minimize the development of fungicide-resistant strains.

¹ Banner MAXX is not registered for greenhouse use. Check mancozeb formulations for specific uses – many formulations exist. Check all labels for approved uses as some plants may be damaged.

² See publication *FSA7562, Alternative Plant Disease Management Practices for the Home Garden*, for additional materials.