



Plant Pathology Fact Sheet

PPFS-GH-03

Fungicides for Management of Diseases in Commercial Greenhouse Ornamentals

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This guide is a decision-making tool to help growers select fungicides from different chemical classes (FRAC).¹
Additional information can be found in a number of UK Cooperative Extension Service publications or by contacting county Extension agents.

FRAC Code Fungicide Group ¹	Fungicide	Chemical	Leaf Spots & Blights, Anthracnose, Petal Blights <i>Fungal</i>	Fire Blight <i>Bacterial</i>	Needle Diseases <i>Fungal</i>	Powdery Mildew <i>Fungal</i>	Rust <i>Fungal</i>	Stem/Root rots by Water Molds <i>Oomycetes</i>	Stem/Root Rots <i>Fungal</i>	Scab <i>Fungal</i>	Downy Mildew <i>Oomycetes</i>
1 MBC Benzimidazoles	Broad spectrum fungicide for various fungi.										
	Cleary's 3336	thiophanate-methyl	x			x	x		x	x	
	Banrot*	etridiazole + thiophanate-methyl						x	x		
	Zyban*	thiophanate-methyl + mancozeb	x			x	x		x	x	x
2 Dicarboximides	Broad spectrum fungicide for greenhouse and nursery use.										
	Chipco 26019**	iprodione	x						x		
3 DMI or SI Triazoles	Effective on powdery mildew. Not effective on downy mildew.										
	Banner	propiconazole	x		x	x	x			x	
	Bayleton	triadimefon	x			x	x				
	Eagle	myclobutanil	x			x	x			x	

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4 Phenylamides	Effective against diseases caused by oomycetes (water molds), including damping-off, root and stem rots, and foliar diseases. Use as soil drench or foliar application.										
	Subdue**	mefenoxam						X			X
7 Carboxamides	Effective on mildews, foliar pathogens, and most fungi.										
	Pageant*	pyraclostrobin + boscalid	X			X	X		X	X	
11 QoI Strobilurins	Effective on mildews, foliar pathogens, and most fungi. Fungicide resistance risk high. Some control of oomycetes.										
	Heritage	azoxystrobin	X		X	X	X	X	X	X	X
	Pageant**	pyraclostrobin + boscalid	X			X	X	X	X	X	X
	Compass**	trifloxystrobin	X			X	X	X	X	X	X
12 Phenyl Pyrroles	Broad spectrum fungicide, not effective against oomycetes (water molds).										
	Medallion	fludioxonil	X						X		
14 Aromatic Hydrocarbons	Effective against water molds (oomycetes).										
	Terrazole	etridiazole						X			
	Truban	etridiazole						X			
	Terraclor	PCNB							X		
	Terraguard**	triflumizole	X			X	X		X	X	
	Banrot*	etridiazole + thiophanate-methyl						X	X		
17 Hydroxyanilides	Protection from <i>Botrytis</i> spp. in outdoor and greenhouse nursery crops.										
	Decree**	fenahexamid	X								
21 Ubiquinone Qil	Effective against water molds (oomycetes).										
	Segway	cyazofamid						X			X

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28 Carbamates	Control of oomycetes (water molds). Not for use in landscapes.										
	Banol**	propamocarb						X			X
33 Phosphonates	Effective as a protectant treatment of water molds (oomycetes) such as <i>Phytophthora</i> , <i>Pythium</i> , and downy mildew pathogens.										
	Alude	phosphorus acid		P				X		X	
	Aliette	fosetyl-AL		P				X			X
	Vital	phosphorus acid						X			X
M Multi-site Inhibitors	Effective as protectants on broad spectrum including most fungi and mildews. No systemic activity. Fungicide resistance risk low.										
	Kocide	copper	X	X	X					X	X
	Champion	copper	X	X	X					X	X
	Captan	captan	X				X		X		
	Daconil	chlorothalonil	X		X	X					
	Manicure	chlorothalonil	X		X	X					
	Dithane	mancozeb	X		X				X		X
	Ziram	ziram	X								

Notes

¹ FRAC codes group fungicides by their mode of action.

Fungicides groups should be rotated

* Chemical contains more than one active ingredient, thus more than one FRAC code is assigned.

Fungicides marked with an “x” are labeled for use.

This table reports information on fungicide labels and does not necessarily reflect product efficacy.

Refer to fungicide labels for rates and usage.

P = preventative only

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Check fungicide labels for specific host information, possible phytotoxicity, rates, re-entry intervals, and resistance management information. Always follow label instructions.