



## 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).<sup>1</sup>  
Additional information can be found in a number of UK Cooperative Extension Service publications or by contacting county Extension agents.

FRAC Code Fungicide Group <sup>1</sup>	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**

<sup>1</sup> 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.**