



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 <i>Fungal</i>	Bacterial Leaf Spots <i>Bacterial</i>	Botrytis Gray Mold, Petal Blight <i>Fungal</i>	Powdery Mildew <i>Fungal</i>	Rust <i>Fungal</i>	Stem/Root rots & Aerial Blights by Water Molds <i>Oomycetes</i>	Stem/Root Rots, Aerial Blights <i>Fungal</i>	Bulb & Corm Rots <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	x	
	Allban	thiophanate-methyl	x		x	x	x		x	x	
	Banrot*	etridiazole + thiophanate-methyl						x	x		
	Zyban*	thiophanate-methyl + mancozeb	x		x	x	x		x	x	x
2 Dicarboximides	Resistance common in <i>Botrytis cinerea</i> .										
	Chipco 26019	iprodione	x		x				x	x	
3 DMI or SI Triazoles	Effective on powdery mildew. Not effective on downy mildew.										
	Bayleton	triadimefon	x			x	x				
	Eagle	myclobutanil	x			x	x				
	Funginex	triflorine	x			x	x				
	Strike	triadimefon	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
5 Amines	Powdery mildew control.										
	Pipron	piperalin				X					
7 Carboxamides	Effective on downy and powdery mildews, foliar pathogens, and most fungi.										
	Pageant*	pyraclostrobin + boscalid	X			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 PhenylPyrroles	Broad spectrum fungicide, not effective against oomycetes (water molds).										
	Medallion	fludioxonil	X		X				X		
14 Aromatic Hydrocarbons	Effective against various pathogens, including soilborne fungi and oomycetes.										
	Terrazole	etridiazole						X			
	Truban	etridiazole						X			
	Terraclor	PCNB							X	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	fena hexamid			X			X			X

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21 Ubiquinone Qil	Effective against water molds (oomycetes) such as <i>Pythium</i> , <i>Phytophthora</i> , and downy mildew pathogens.										
	Segway	cyazofamid						X			X
28 Carbamates	Control of oomycetes (water molds) in propagation material.										
	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						X			X
	Aliette	fosetyl-AL						X			X
	Vital	phosphorus acid						X			X
M Multi-site Inhibitors	Effective as protectants on a broad spectrum including most fungi and mildews. No systemic activity. Low risk of fungicide resistance.										
	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		X

Notes

¹ FRAC codes group fungicides by their mode of action and resistance risk.

Fungicides groups should be rotated in order to prolong the effectiveness of fungicides.

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

Fungicides marked with "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.

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

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