

# Oomycete Considerations in Ornamentals - (Phytophthora, Pythium, Phytophthium)

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FRAC	Risk of pathogen resistance	Active ingredient	Tradename examples*	(Review each specific label) Notes	Translocation Movement in plant
P07	Low	Phosphonates. Aluminum tris (O-ethyl phosphonate)	Areca, Aliette, <i>generic fosetyl-Al</i>	See label. Foliar and drench/soil reapplication interval is 30d or greater. <b>Do not apply group P07 and copper-based fungicides within 14d of one another</b>	Fully systemic - xylem and phloem mobile (amphimobile)
P07	Low	Phosphonates. Mono- and di- potassium salts of phosphorus acid	Alude, Reliant, Rampart, K-Phite 7LP	See label. Generally, soil drench minimum reapplication interval is 30d and foliar applications, less than. <b>Do not apply group P07 and copper-based fungicides within 14d of one another</b>	Fully systemic - xylem and phloem mobile (amphimobile)
40	Low to Medium	Dimethomorph, Mandipropamid	Stature SC, Micora	See label. Foliar, drench, soil directed, and chemigation applications.	Translaminar systemic - local translocation
40 + 45*	Medium + High*	Dimethomorph + ametoctradin*	Orvego	See label. Foliar, drench, soil directed, and chemigation applications.	Translaminar systemic - local translocation
49	Medium to High	Oxathiapiprolin	Segovis	See label for use restrictions and tank-mix compatibility.	Xylem mobile systemic - translocation upwards (acropetal)
11	High	Fenamidone	Fenstop	See label: Now labeled for outdoor nurseries. Reapplication interval is 28d	Xylem mobile systemic - translocation upwards (acropetal)
43	Medium	Fluopicolide	Adorn	See label. Foliar, drench, and chemigation applications. No more than 2 applications per crop cycle. Minimum reapplication interval - 14d.	Xylem mobile systemic - translocation upwards (acropetal)
4	High	Mefenoxam	Subdue Maxx, Subdue GR, <i>generic Mefenoxam</i>	See label. Typically, spring and fall drench applications with total allowable of 6lb/A/year (Subdue Maxx). Foliar, drench, soil directed, soiless media incorporation, and chemigation applications. <b>See label for minimum reapplication intervals for drench applications</b> (ranging from 3 weeks to 4 months). <i>Mefenoxam resistance has been detected in the USA.</i>	Xylem mobile systemic - translocation upwards (acropetal)
21	Medium to High	Cyazofamid	Segway-O, Celoxid SC	See label. Minimum reapplication interval 14 - 21d. No more than 2 applications per crop cycle. Applied as drench or soil directed.	Protectant - no systemic activity
BM02	Unknown (likely low)	Biologicals	Rhapsody (bacteria), Root Sheild Plus (fungi)	See label. Reapplication interval typically very rapid at 3-10d.	Antagonistic - hinders pathogen colonization of host tissues
-	-	Quaternary ammoniums	KleenGrow, Uptake, Physan 20, Green Shield	See label. Typically used in sanitation efforts, irrigation maintenance (biofilms), and some labels allow for application to plant surfaces. Phytotoxicity concerns are rate and label specific. Generally considered broad spectrum fungi/bacteria/oomycete pesticides.	Direct contact - varying residual activity, no systemic activity
-	-	Hydrogen dioxides	Zerotol, Oxidate		

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