

# Fungicides and Bactericides for Treatment of Various Orchid Diseases

by Sue Bottom, sbottom15@bellsouth.net

Chemical Name Active Ingredient	Application Rate (tsp/gal)	Floral Damage?	Systemic ?	Bacterial Diseases			Fungal Rots				Leaf and Flower Blights				
				Soft Rot <i>Erwinia</i>	Brown Rot <i>Erwinia</i>	Brown Spot <i>Pseudomonas</i>	Black Rot <i>Pythium</i> <i>Phytophthora</i>	Fusarium Wilt <i>Fusarium</i>	Root Rot <i>Rhizoctonia</i>	Southern Blight <i>Sclerotium</i>	Anthracnose <i>Colletotrichum</i>	Leaf Spots <i>Cercospora</i> <i>Guignardia</i>	Rusts <i>Sphenospora</i> <i>Uredo</i>	Botrytis <i>Botrytis</i>	
<b>Commonly Available Fungicides and Bactericides</b>															
Captan 50W Captan	3	No	No	x	x							x	x	x	x
Daconil Chlorothalonil	2.3	No	No	x	x										x
Dithane, Mancozeb Mn,Zn,Ethylene bisdithiocarbamate	4.5 Powder 1 Liquid	No	No									x	x		x
Kocide Copper Hydroxide	3	Yes	No	x	x	x						x	x		
Liquid Copper Copper salts-fatty,rosin acids	4 - 6	Yes	No	x	x	x						x	x		
Neem Oil Neem Oil	6	No	No									x	x		x
Physan (Consan) Quaternary Ammonium Chloride	2	No	No	x	x										x
Phyton 27 21.4% Copper Sulphate Pentahydrate	0.8 - 2.4	Yes	No	x	x	x						x	x		x
Thiomyl 50% Dimethyl	0.7-1	No	Yes					drench	drench	drench		x	x		x
<b>Specialty Fungicides and Bactericides</b>															
Aliette WDG Fosetyl aluminium 80%	5-9 foliar .8-1.5 drench	?	Yes					drench							
Banrot 40WP Etridiazole 15% Thiophanate M	0.5 - 1.1	Yes	Yes					x	drench	drench	drench	x	x		x
Cleary's 3336 WP Thiophanate Methyl 50%	0.7 - 1	No	Yes						drench	drench	drench	x	x		x
Compass 50WDG Trifloxystrobin 50%	.2 - .4	No?	Yes?							x		x			x
Subdue Maxx Metalaxyl 21.3%	0.05 (7-30 drops)	No	Yes					drench	drench						
Terraclor 75% WP Pentachloronitrobenzene 75%	0.4 - 0.8 drench	No?	Yes						drench	drench	drench				
Truban 25% EC Etridiazole	0.18 - 0.5	?	Yes					drench							
Zyban Mancozeb+Thiophanate methyl	0.75 - 1.5	No	Yes						drench	drench	drench	x	x		x

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Chemical Name Active Ingredient	Application Rate (tsp/gal)	Floral Damage?	Systemic ?	Comments and Caveats - Always Check Manufacturer's Label for Information on Proper Use and Precautions
<b>Commonly Available Fungicides and Bactericides</b>				
Captan 50W Captan	3	No	No	Dip or spray, directed soil surface spray. Do not use with oil sprays.
Daconil Chlorothalonil	2.3	No	No	
Dithane, Mancozeb Mn,Zn,Ethylene bisdithiocarbamate	4.5 Powder 1 Liquid	No	No	Leaves heavy residue on leaves.
Kocide Copper Hydroxide	3	Yes	No	Do not use with Aliette. Do not use on Dendrobiums.
Liquid Copper Copper salts-fatty,rosin acids	4 - 6	Yes	No	Do not use with oil spray. Do not use on Dendrobiums.
Neem Oil Neem Oil	6	No	No	Insecticide, Miticide and Fungicide
Physan (Consan) Quaternary Ammonium Chloride	2	No	No	Can use 10% pool algaecide as alternative at 2 tsp/gal. Soak divisions for 3-5 min in 1.5 tbsp/gal. 1 tbsp/gal for g/h surface and pot disinfection.
Phyton 27 21.4% Copper Sulphate Pentahydrate	0.8 - 2.4	Yes	No	Fungicide and bactericide. Do not use with Aliette. Do not use on Dendrobiums. Do not spray on flowers.
Thiomyl 50% Dimethyl	0.7-1	No	Yes	Generic for Cleary's 3336. Do not tank mix with copper. Spray as indicated or drench. Alternate after 2 consecutive uses. Add wetting agent for better
<b>Specialty Fungicides and Bactericides</b>				
Aliette WDG Fosetyl aluminium 80%	5-9 foliar .8-1.5 drench	?	Yes	Can use as protectant drench, do not spray within 7 days of copper fungicide use, do not mix with Mancozeb, metal ions or spreader sticker.
Banrot 40WP Etridiazole 15% Thiophanate M	0.5 - 1.1	Yes	Yes	Do not tank mix with copper, spray as indicated or drench, wash foliage after drench application and water into pot, alternate after 2 consecutive uses, add wetting agent for better coverage.
Cleary's 3336 WP Thiophanate Methyl 50%	0.7 - 1	No	Yes	Do not tank mix with copper. Spray as indicated or drench. Alternate after 2 consecutive uses. Add wetting agent for better coverage.
Compass 50WDG Trifloxystrobin 50%	.2 - .4	No?	Yes?	Do not use with organosilicate based products.
Subdue Maxx Metalaxyl 21.3%	0.05 (7-30 drops)	No	Yes	For molds caused by water, considered most effective for molds and root and stem rots, prevents and cures disease.
Terraclor 75% WP Pentachloronitrobenzene 75%	0.4 - 0.8 drench	No?	Yes	Mostly used as protective drench and soil incorporation
Truban 25% EC Etridiazole	0.18 - 0.5	?	Yes	Use as protectant drench, wash foliage after drench application,
Zyban Mancozeb+Thiophanate methyl	0.75 - 1.5	No	Yes	Do not use on Gloxinia