

Common Contact Fungicides for Turf

COMMON NAME	SOME TRADE NAMES	CHEMICAL FAMILY / MOA	COMMENTS
Chlorothalonil	Daconil, Manicure, Thalonil	Benzonitrile	Little if any resistance to chlorothalonil has been reported in fungi. Use on home lawns restricted.
Mancozeb	Fore, Mancozeb, Dithane	Dithiocarbamate	Broad spectrum of control
Iprodione	Chipco 26019, Chipco 26GT, Proturf Fungicide X	Dicarboximide	Local penetrant. Broad spectrum of control
Vinclozolin	Vorlan, Touche, Curalan	Diacarboximide	See iprodione. Some vinclozolin and iprodione products are no longer labeled for use on residential turfgrass.
PCNB	PCNB, Terraclor, Defend, Scotts FFII	Aromatic Hydrocarbon	May be locally systemic.
Trifloxystrobin	Compass	Strobilurin	Local penetrant
Fludioxonil	Medallion	Phenylpyrrole	Single-site mode of action; resistance may occur.
Polyoxin-D	Endorse, Affirm	Antibiotic	Inhibits chitin formation in fungi.

Common Systemic Fungicides for Turf

COMMON NAME	SOME TRADE NAMES	CHEMICAL FAMILY / MOA	COMMENTS
Benomyl	Benomyl, Tersan	Benzamidazole	Broad spectrum of control. Upwardly systemic. Resistance reported
Thiophanate-methyl	Cleary's 3336, Cavalier, Fungo, Proturf Systemic Fungicide	Benzamidazole	See Benomyl. Some resistance reported
Fenarimol	Rubigan	Sterol inhibitor (DMI)	Broad spectrum, upwardly systemic. All DMIs are much better in preventative than curative applications. Some resistance reported. Can injure turfgrass – especially cool season turf - if applied in hot weather.
Propiconazole	Banner, Banner MAXX	Sterol inhibitor (DMI)	See above
Triadimefon	Bayleton, Bayer Advanced Lawn Fungus Control	Sterol inhibitor (DMI)	See above
Myclobutanil	Eagle, Golden Eagle, Spectracide Immunox	Sterol inhibitor (DMI)	See above
Triticonazole	Trinity, Triton FLO	Sterol inhibitor (DMI)	See above; be careful on bermudagrass putting greens
Metconazole	Tourney	Sterol inhibitor (DMI)	See above. Not labeled for use on bermudagrass.
Azoxystrobin	Heritage, Maxide Disease Killer	Strobilurin	Upwardly systemic. Broad spectrum, including activity against <i>Pythium</i> .

COMMON NAME	SOME TRADE NAMES	CHEMICAL FAMILY / MOA	COMMENTS
	Granules		Not active against dollar spot.
Pyraclostrobin	Insignia	Strobilurin	Similar to Heritage, but better activity against dollar spot.
Flutolanil	ProStar	Benzanilide	Upwardly systemic. Has some activity against fairy ring fungi. Not active against dollar spot
Boscalid	Emerald	Anilide	Dollar spot and bentgrass dead spot on golf courses only

Fungicides Sold as Pre-Mixed Products

PRODUCT	INGREDIENTS	COMMENTS
Junction	Mancozeb + copper hydroxide	For algae and moss control
Lesco Twosome	Fenarimol + iprodione	Combines contact + systemic
26/36 Proturf Fluid Fungicide	Iprodione + thiofanate-methyl	
Proturf Fluid Fungicide II	Metalaxyl + triademifon	
MANhandle	Myclobutanil + mancozeb	
Proturf Fungicide IX	Thiophanate-methyl + chloroneb	
ConSyst, Spectro, Broadcide	Thiophanate-methyl + chlorothalonil	
Systar	Thiophanate-methyl + flutolanil	

PRODUCT	INGREDIENTS	COMMENTS
Duosan	Thiophanate-methyl + mancozeb	
Bromosan	Thiophanate-methyl + thiram	
Proturf Fluid Fungicide	Triademifon + thiram	
Prostar Plus	Triademifon + flutolanil	
Armada, Tartan	Triademifon + trifloxystrobin	
Headway	Azoxystrobin + propiconazole	
Honor	Pyraclostrobin + boscalid	
Renown	Azoxystrobin + chlorothalonil	
Concert	Propiconazole + chlorothalonil	
Reserve	Triticonazole + chlorothalonil	
Instrata	Propiconazole + Chlorothalonil + Fludioxonil	Good for snow mold
Interface	Iprodione + Trifloxystrobin	

***Pythium* Fungicides for Turf**

(In various chemical families)

COMMON NAME	SOME TRADE NAMES	COMMENTS
Chloroneb	Teremec SP, Proturf Fungicide II	Contact fungicide; not systemic
Ethazol	Koban, Terrazol	Contact fungicide; not systemic.
Metalaxyl	Subdue 2E, 2X	Upwardly systemic. Some resistance reported.
Mefanoxam	Subdue MAXX	Upwardly systemic. Some resistance reported.
Propamocarb	Banol	Upwardly systemic.
Azoxystrobin	Heritage	Upwardly systemic.
Fosetyl-Aluminium	Prodigy, Aliette Signature, Signature,	Upwardly AND downwardly systemic. Reports of activity against fungi other than <i>Pythium</i> .
Phosphites	Alude, Magellan, Vital	Upwardly AND downwardly systemic. Reports of activity against fungi other than <i>Pythium</i> .

FUNGICIDE USE ON TURFGRASSES

CONTACT OR PROTECTANT FUNGICIDES

- **Little or no systemic movement in the plant**
- **Even coverage and rainfastness crucial for good disease control**
- **Foliar diseases**

SYSTEMIC FUNGICIDES

- **Taken up by turf and translocated upward throughout plants**
- **Fosetyl-Al and phosphite fungicides have true systemic activity, moving both up and down**

Foliar and root diseases