

MAJOR CHEMICAL GROUPS OF TURFGRASS FUNGICIDES

Chemical Family	Common Name	Trade Name	Type/Mode of Action
acylpicolides	fluopicolide	Stellar	Delocalization of proteins
Aromatic Hydrocarbons	chloroneb	Anderson's Fungicide V 6.25G Anderson's Turf Fungicide 7.5G Termec SP, Terraneb SP	Protectant Fungicide Mode of action: Interferes with mitosis
	etridiazol	Koban 30WP, Terrazole	
	PCNB	Anderson's 10-0-14 Fertilizer + 15% PCNB, Anderson's FFII 15 .4G (14-3-3), Cleary's PCNB, Engage 75W, Engage 10GF, FF II, Lesco Revere 4000 4F, Lesco Revere 10G, Parflo 4F, Penstar 75WP, Penstar 15G, Penstar 4F, Revere 10G, Revere 4000, Flowable Turf, Terraclor 75%WP, Terraclor 75%WP (T&O), Turfcide 400F, Turfcide 10G	
Antibiotic	polyoxin d	Affirm, Endorse	Localized penetrant fungicide Mode of action: Inhibits chitin production, which is a major component of the cell wall in many fungi; Inhibits spore germination
Benzimidazoles	thiophanate methyl	Anderson's Systemic Fungicide 2.3G, ArmorTech TM 462, Cavalier, Cleary's 3336 50W/WSP, 3336 2G, 3336 4.5F, 3336 GC, 3336 DG Lite, Fungo Flo AGC, Fungo 4.5F, Fungo Flo 50WSB, Lesco T-Storm (50WSP, 2G, Flowable), OHP 6672 (4.5L & 50W), Scott's Lawn Fungus Control, Systec 1998 85WDG, T-Bird 4.5L, T-Bird 85 WDG, T-Methyl SPC 4.5, T-Methyl SPC 50, T-Methyl G, Tee-off 4.5F	Acropetal penetrant Mode of action: Fungicide binds tubulin subunits that results in mitotic arrest
Carboximides	boscalid	Emerald	Acropetal penetrant fungicide Basidiomycete control Mode of action: Blocks activity of certain respiratory enzymes. Inhibition of succinate dehydrogenase in a complex of the mitochondrial respiratory chain
	Fluopyram	Part of Exteris	
	fluxapyroxad	Xzemplar	
	flutalonil	Prostar	
	penthiopyrad	Velista	
Demethylation Inhibitors (DMI's)	fenarimol	Rubigan	Broad spectrum acropetal penetrant fungicide Mode of action: Sterol inhibitor (ergosterol). Inhibits cell membrane synthesis
	myclobutanil	ArmorTech Myclo 20 EW, Eagle 20 EW, Eagle 40 WSP, Lesco Eagle G, Lebanon Eagle G, Myclobutanil 20EW T/O	
	propiconazole	ArmorTech PPZ143MC, Banner GL 3.6 WSP, Banner Maxx 1.24 MEC, Lesco Spectator 3.6EC, Lesco Spectator Ultra 1.3 MEC, Monsoon turf, ProPensity 1.3 ME, Propiconazole SPC 14.3, Quali-pro propiconazole 14.3, Strider	
	tebuconazole	ArmorTech TEB360, Sipcam Clearscape, Sipcam Clearscape ETQ, Torque, Mirage Stressguard	
	triadimefon	Accost 1G, Anderson's Fungicide VII 0.59G, Anderson's 1% Bayleton 1G, Bayleton 25WP, Bayleton 50WSP, Bayleton Flo, Lebanon Bayleton 1G, Lesco Granular turf fungicide 1G, Lesco Systemic, Pro Bayleton, Strike 25 WP	
	triticonazole	Trinity, Triton	
Dicarboximides	iprodione	ArmorTech IP233, Chipco 26GT, Chipco 26019, Eclipse ETQ, Lesco 18 plus, Iprodione Pro 2SE, Iprodione SPC, Ipro2SE	Localized Penetrant Mode of action: Affects DNA synthesis and lipid metabolism
	vinclozolin	Curalan, Touche	

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Carbamates and Dithiocabamates	mancozeb	Dithane 4SC Rainshield, Dithane 75DF Rainshield, Dithane DF, Dithane DF Rainshield, Dithane F-45 Rainshield, Dithane M-45, Dithane WF Rainshield, Dithane T/O Rainshield 75WP, Dithane 37WF, Flowable Mancozeb 4, Fore, Fore Flo-XL 4F, Fore 80WP Rainshield, Formex 80W, Lescó Mancozeb 75DG, Lescó 4 Flowable Mancozeb 4F, Mancozeb + Copper, Mancozeb DG, Manzate 80WP, Manhandle, ManKocide, Manzate 75DF, Manzate Flowable Protect T/O	Protectant fungicide Mode of action: Enzyme inactivation
	propamocarb hydrochloride	Banol, Lescó Banol, Proplant	Localized penetrant Mode of action: Alters cell membrane function
Nitriles	chlorothalonil	ArmorTech CLT720, ArmorTech CLT825, Anderson's 5% ChloroStar 6F, 82.5WDG, Chlorothalonil 500ZN, 720SFT, DF, CountDown, Daconil 5G, Daconil Action, Daconil Ultrex, Daconil Weatherstik, Daconil Zn, Docket, Echo DF, Echo 500, Echo Ultimate ETQ, Echo 6F ETQ, Echo Dyad ETQ, Evade, 75WDG, Lebanon Daconil 5G, Lescó Manicure T/O, 6F, Legend, Thalonil, Manicure, Manicure Ultra, Pegasus DFX, Ultrex 82.5WDG	Protectant Fungicide Mode of action: Toxic to cell membrane
Phenylamides	mefenoxam	Anderson's Pythium Control 1.2G, Apron XL LS, Mefanoxam 2AQ, Quell, Ridomil Gold EC, Subdue GR, Subdue Maxx, Subdue WSP, Tri-Power Selective	Acropetal penetrant fungicide Mode of action: Inhibits RNA synthesis
Phenylpyrrole	fludioxonil	Medallion	Protectant Fungicide Mode of action: Cell membrane toxicity, amino acids uptake inhibition
phenylpyridnamine	fluazinam	Secure	Protectant Fungicide Mode of action: Inhibits respiration
Phosphonates	fosetyl-a1	ArmorTech ALT70, Aliette 80WP, Aliette WDG, Chipco Signature, Prodigy Signature, Fosetyl-Al 80WGD, Lescó Prodigy Signature 80DG, Terra Aliette T/O, 80WGD	Systemic fungicide
	potassium phosphonate, phosphite	Alude, Appear, Magellan, Phostrol, Vital, Jetphiter	Mode of action: General fungitoxic effect
Strobilurins	azoxystrobin	Heritage, Strobe, Strobe 50WG, Strobe 2L	Broad spectrum, systemic
	flouxastrobin	Disarm, Disarm C, Disarm GC, Disarm M	Broad spectrum, systemic
	trifloxystrobin	Compass	Broad spectrum, localized penetrant
	pyraclostrobin	Insignia, Insignia Intrinsic	Mode of action: ATP inhibition