

# Families of Fungicides for Turfgrass

Arranged by J.W. RIMELSPACH and T.K. DANNEBERGER

## Chemical Family: Dithiocarbamates

### Common Name:

Maneb  
  
Zineb  
Mancozeb  
  
Thiram

### Trade Names:(+)

Dithane FZ, Dithane M-22  
  
Dithane Z-78, Zineb  
Fore, Formec, Lesco 4,  
Dithane M-45, Protect T/O  
Spotrete

### Comments:

These types of fungicides have broad spectrum control properties and are used as protectants.

### Chemical Family: Dicarboximides

Iprodione  
  
Vinclozolin

Chipco 26019, Proturf Fungicide VI  
  
Vorlan, Touche', Curalan

These fungicides were developed in the mid-1970s and are locally systemic in nature. These fungicides are considered to have a broad spectrum of control. Fungal resistance has been reported for this group.

## Chemical Family: Benzimidazoles

Benomyl  
  
Thiophanite-methyl

Rockland, Lebanon Fungicide Type B  
  
Fungo 50, Cleary's 3336

Benomyl became available in the late 1960s. These fungicides are characterized by acropetal (upward) transport and have had reported cases of fungal resistance.

## Chemical Family: Sterol Inhibitors

Fenarimol  
  
Triademefon  
  
Propiconazole  
  
Cyproconazole  
Additional Fungicides. . . in different chemical families . . .  
  
Anilazine  
  
Chlorothalonil  
  
Flutolanil  
  
PCNB  
(pentachloronitrobenzine)  
  
Pythium Controlling Fungicides. . . in different chemical families  
Metalaxyl  
  
Propamocarb  
  
Fosetyl Aluminum  
  
Cholorneb  
  
Etridiazol

Rubigan  
  
Bayleton  
  
Banner  
  
Sentinel  
  
Dyrene, Lescorene, Lofts Lawn Fungicide  
  
Daconil 2787, Lebanon Type Fungicide D  
  
ProStar  
  
Terraclor, Turfcide, Scotts. FFII, PCNB  
Resistance has not been reported with  
  
Subdue, Proturf Pythium Control  
  
Banol  
  
Aliette  
  
Teremec SP, Proturf Fungicide II  
  
Koban, Terrazole

This group of fungicides is the newest chemistry to be developed. The group has a broad spectrum control range and is acropetal (upward) systemic. At times, also referred to as DMI's (demethylation-inhibitors)

Listed below are important fungicides that give generally broad spectrum control. Since these compounds represents different chemical groups, they are bunched together here. They are protectant type fungicides that do not have systemic activity (however) PCNB may be locally systemic).

these protectants.

Few diseases, if any, besides the pythium fungi or closely related fungi (water molds phycomycetes like yellow tuft), are controlled. Tersan SP and Koban are effective for only a few days. Subdue and Banol have up to 4 weeks of control (2-3 weeks more reliable). Aliette is an interesting compound since it did not originally appear to have fungicidal activity, but conveys greater host resistance and a true systemic movement both up and down the plant.

\*Adapted from: *Turfgrass Ecology and Management* by T.K. Danneberger  
+Product list by Trade Name may not be all inclusive