

#### **DISPERSIBLE GRANULES**

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A coordination product of zinc ion and manganese ethylenebisdithiocarbamate	75.0%
in which the ingredients are:	
Manganese++	%
Zinc++ 1.9	
Ethylenebisdithiocarbamate ion $(C_4H_6N_2S_4)$	%
OTHER INGREDIENTS	25.0%
TOTAL	100.0%
Contains 0.75 Pound of Mancozeb Per Pound of Product	

EPA Reg. No. 70506-234

## CAUTION

#### **FIRST AID**

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. **Contact the Rocky Mountain Poison Center at 1-866-673-6671 for emergency medical treatment information.** See Label for Additional Precautions and Directions for Use.

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC at 1-800-424-9300.



Net Weight:	Pounds
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# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

MAY IRRITATE EYES, NOSE, THROAT AND SKIN. MAY BE HARMFUL IF ABSORBED THROUGH SKIN, INHALED OR SWALLOWED. Avoid breathing dust or spray mist. Avoid contact with skin, eyes and clothing. Keep away from fire or sparks.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA chemical resistance category selection chart.

### Applicators and other handlers (other than mixers and loaders) must wear:

- · Coveralls over long-sleeved shirt and long pants
- Chemical resistant gloves, such as nitrile rubber, natural rubber, or butyl rubber
- Shoes plus socks

#### Mixers and Loaders must wear:

- · Coveralls over long-sleeved shirt and long pants
- Chemical resistant gloves, such as nitrile rubber, natural rubber, or butyl rubber
- · Shoes plus socks
- · Protective eyewear
- Chemical-resistant apron when mixing or loading

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### **ENGINEERING CONTROL STATEMENTS:**

When handlers use enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR part 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

During aerial application, human flaggers must be in enclosed cabs.

#### **USER SAFETY RECOMMENDATIONS**

**USERS SHOULD:** Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### **ENVIRONMENTAL HAZARDS**

This product is toxic to fish. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Cover or incorporate spilled treated seed. Do not contaminate water by disposing of equipment washwaters.

#### **DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restrictedentry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- · Coveralls over long-sleeved shirt and long pants
- Chemical resistant gloves, such as nitrile rubber, natural rubber, or butyl rubber
- · Shoes plus socks

#### **NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Commercial seed treatments, professional applications to lawn grasses, golf courses, industrial (office park), municipal and residential lawns are not within the scope of the Worker Protection Standard.

Do not enter treated areas until sprays have dried.

United Phosphorus, Inc. will not be responsible for losses or damages resulting from use of this product in any manner not specifically recommended by United Phosphorus, Inc. User assumes all risks associated with such nonrecommended use.

MANZATE PRO-STICK T&O Fungicide, a dispersible granule containing mancozeb, is recommended for use as a spray for the control of many important plant diseases.

#### APPLICATION INSTRUCTIONS

AS A SPRAY (Ground or Aerial Equipment) - Apply MANZATE PRO-STICK T&O Fungicide at the rate shown; use sufficient water to provide thorough coverage: use 20 to 100 gallons per acre for ground equipment and no less than 2 gallons per acre for aircraft. Add MANZATE PRO-STICK T&O Fungicide slowly to water in the spray tank with agitation, or premix thoroughly in separate holding tank for concentrate or aircraft sprayers. Continuous agitation is required to keep the product in suspension. A spreader-sticker spray adjuvant may be used with this product if needed; contact your local product distributor or United Phosphorus, Inc. representative for specific recommendations.

#### RESTRICTIONS

#### **Foliar Applications**

### Where EBDC Products Used Allow the Same Maximum Poundage of Active Ingredient Per Acre Per Season

If more than one product containing an EBDC active ingredient (maneb, mancozeb or metiram) is used on a crop during the same growing season and the EBDC products used allow the same maximum poundage of active ingredient per acre per season, then the total poundage of all such EBDC products used must not exceed any one of the specified individual EBDC product maximum seasonal poundage of active ingredient allowed per acre.

#### Where EBDC Products Used Allow Different Maximum Poundage of Active Ingredient Per Acre Per Season

If more than one product containing an EBDC active ingredient is used on a crop during the same growing season and the EBDC products used allow different maximum poundage of active ingredient per acre per season, then the total poundage of all such EBDC products used must not exceed the lowest specified individual EBDC product maximum seasonal poundage of active ingredient allowed per acre.

#### **CHEMIGATION**

Apply MANZATE PRO-STICK T&O Fungicide only through sprinkler systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set or hand move irrigation systems. Do not apply MANZATE PRO-STICK T&O Fungicide through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service Specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

#### **Specific Instructions for Public Water Systems:**

- Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- 2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- 3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 4. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Do not apply when wind speed favors drift beyond the area intended for treatment.

#### **Specific Instructions for Sprinkler Irrigation Systems:**

- The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Do not apply when wind speed favors drift beyond the area intended for treatment.
- 8. Good agitation is required in the injection tank.
- In moving systems, apply specified dosage of MANZATE PRO-STICK T&O
  Fungicide as a continuous injection. In non-moving systems inject
  MANZATE PRO-STICK T&O Fungicide for 15 to 30 minutes at end of
  cycle. Use the least amount of water possible consistent with uniform
  coverage.
- 10. Mix the amount of MANZATE PRO-STICK T&O Fungicide needed for acreage to be treated into the quantity of water determined during prior calibration. For moving systems inject into the system continuously for one complete revolution of the field. For non-moving systems inject into system for the time established during calibration.
- 11. Stop injection equipment after treatment is completed and continue to operate irrigation equipment until all MANZATE PRO-STICK T&O Fungicide is flushed from system.

#### FLOWERS, FOLIAGE PLANTS, AND ORNAMENTALS

### NOT INTENDED FOR USE ON FRUIT TREES BY HOMEOWNERS. TREATED PLANTS MUST NOT BE USED FOR FOOD OR FEED PURPOSES.

Apply in the field, nursery or greenhouse as a thorough coverage spray, using 1 to 2 lbs. MANZATE PRO-STICK T&O Fungicide per acre (1 1/2 to 3 tsp. per gal.).

Plant sensitivities to MANZATE PRO-STICK T&O Fungicide have been found to be acceptable in specific genera and species listed on this label, however, phototoxicity may occur. Due to the large number of species and varieties of ornamentals and nursery plants, it is impossible to test each one for sensitivity to MANZATE PRO-STICK T&O Fungicide. Neither the manufacturer nor seller has determined whether or not MANZATE PRO-STICK T&O Fungicide can be safely used on ornamental or nursery plants not listed on this label. The user should determine if MANZATE PRO-STICK T&O Fungicide can be used safely prior to commercial use. In a small area, apply the recommended rates to the plants in question, i.e. bedding plants, foliage, etc., and observe for 7 to 10 days for symptoms of phytotoxicity prior to commercial use. Use MANZATE PRO-STICK T&O Fungicide in commercial greenhouses and nurseries for control of fungal diseases of flowers, foliage and ornamentals.

Aerial application: For aerial applications made to field-planted ornamentals, apply 1 to 2 lbs. per acre; a minimum rate of 5 gals of spray per acre should be used during aerial applications.

Application of dilute sprays: Apply as a thorough coverage spray using 1 to 2 lbs. per acre or 1 to 2 lbs. per 100 gals of water. Begin application at first sign of disease and repeat at 7 to 10 day intervals or as needed; use shorter interval during periods of frequent rains or when severe disease conditions persist. MANZATE PRO-STICK T&O Fungicide may be used alone or in combination with other fungicides as maintenance spray. Use higher rate and shorter intervals during periods of excessive wetness and rapid growth.

MANZATE PRO-STICK T&O Fungicide is recommended for use on certain flower, foliage and ornamental plants listed in the table below for control of the following diseases and pathogens:

PLANT PATHOGEN CONTROLLED:

Abutilon Alternaria, Cercospora, Cladosporium, Colletotrichum, Puccinia

African violet Alternaria, Botrytis

Ageratum Alternaria, Puccinia, Rhizoctonia, Sclerotium

Aglaonema Alternaria

Almond, ornamental Botrytis, Cladosporium, Coryneum, Gloeosporium, Monilinia

Alyssum Microsphaera alni

Andromeda Exobasidium, Rhytisma, Venturia Anthurium Colletotrichum, Gloeosporium

Apple Alternaria, Cephalosporium, Colletotrichum, Coryneum, Elsinoe, Fusarium, Gloeosporium, Gymnosporangium,

Helminthosporium, Leptosphaeria, Monilinia, Monochaetia, Mycosphaerella, Pestalotia, Venturia

Arborvitae Alternaria, Botrytis, Cercospora, Coryneum, Lophodermium, Mycosphaerella, Pestalotia
Ash Cercospora, Cylindrosporium, Gloeosporium, Puccinia, Rhizoctonia, Sphaeropsis

Ash, Mountain Gymnosporangium

Aster Alternaria, Ascochyta, Botrytis, Colletotrichum, Fusarium, Phomopsis, Phyllosticta, Puccinia, Ramularia,

Rhizoctonia, Septoria, Uromyces

Aucuba japonica Alternaria, Cercospora, Gloeosporium, Phomopsis, Phyllosticta

Azalea Alternaria, Botrytis, Cladosporium, Colletotrichum, Cylindrocladium, Ovulinia

Baby's Breath Botrytis, Rhizoctonia

Basswood Cercospora, Phyllosticta

Begonia Botrytis, Cercospora, Gloeosporium, Rhizoctonia

Birch Cylindrosporium, Gloeosporium, Glomerella, Melampsoridium, Taphrina

Bougainvillea Colletotrichum
Boxwood Fusarium, Volutella

Buckeve Cercospora, Glomerella, Guignardia, Monochaetia, Phyllosticta, Septoria, Taphrina

Buffalo berry Cylindrosporium, Puccinia, Rhizoctonia, Septoria

Catalpa Alternaria, Cercospora, Gloeosporium, Phomopsis, Rhizoctonia

Camellia Botrytis, Cercospora, Elsinoe, Exobasidium, Glomerella, Pestalotia, Phomopsis, Phyllosticta

Carnation Alternaria, Botrytis, Cladosporium, Colletotrichum, Fusarium, Helminthosporium, Septoria, Stemphylium, Uromyces

Cedar Lophodermium, Gymnosporangium

Cherry, ornamental Alternaria, Cercospora, Cladosporium, Coccomyces, Coryneum, Fusicladium, Monilinia, Phomopsis, Phyllosticta,

Taphrina

Chinese evergreen Colletotrichum, Gloeosporium

(continued)

Christmas cactus Alternaria, Cercospora, Colletotrichum, Fusarium, Phomopsis

Chrysanthemum Alternaria, Ascochyta, Bipolaris, Botrytis, Cercospora, Cylindrosporium, Helminthosporium, Phyllosticta, Septoria,

Stemphylium

Cockscomb (Celosia) Alternaria, Cercospora

Coleus Alternaria, Botrytis, Phyllosticta

Columbine Ascochyta, Botrytis, Cercospora, Puccinia, Rhizoctonia, Septoria

Coryline Cercospora

Cotoneaster Cercospora, Phyllosticta, Venturia

Crabapple Gymnosporangium, Marssonina, Phyllosticta, Septoria, Venturia

Crape myrtle Cercospora, Phomopsis, Phyllosticta

Croton Gloeosporium

Cuphea (Mexican heather) Gloeosporium, Rhizoctonia

Cyclamen Botrytis, Cladosporium, Fusarium, Glomerella, Phyllosticta, Ramularia

Cypress Coryneum, Fusarium, Gymnosporangium, Lophodermium, Monochaetia, Pestalotia, Phomopsis

Dahlia Alternaria, Botrytis, Fusarium, Rhizoctonia

Daisy Botrytis, Cercospora, Whetzelinia
Daisy, Shasta Cylindrosporium, Septoria, Fusarium
Daisy, Transvall Alternaria, Botrytis, Gloeosporium

Daylily Alternaria, Botrytis, Cercospora, Colletotrichum, Phomopsis, Phyllosticta, Puccinia

Delphinium Ascochyta, Botrytis, Cercospora, Diaporthe, Fusarium, Phyllosticta, Puccinia, Ramularia, Septoria, Volutella

Dieffenbachia Cephalosporium, Colletotrichum, Gloeosporium, Glomerella, Leptosphaeria
Dogwood Ascochyta, Botrytis, Cercospora, Colletotrichum, Elsinoe, Phyllosticta, Septoria

Dracaena Alternaria, Cercospora, Colletotrichum, Fusarium, Phyllosticta

Dusty Miller Fusarium, Puccinia

Elm Botryosphaeria, Cephalosporium, Cercospora, Coryneum, Cylindrosporium, Fusarium, Gloeosporium, Monochaetia,

Mycosphaerella, Phomopsis, Phyllosticta, Rhizoctonia, Sphaeropsis, Taphrina

Euonymus Cercospora, Colletotrichum, Gloeosporium, Marssonina, Ramularia, Septoria, Whetzelinia

Fatsia Alternaria, Cercospora, Colletotrichum, Phyllosticta

Fern Botrytis, Cercospora, Curvularia, Cylindrosporium, Glomerella, Phyllosticta, Taphrina

Ficus Alternaria, Ascochyta, Cephalosporium, Cercospora, Cladosporium, Colletotrichum, Fusarium, Gloeosporium,

Glomerella, Mycosphaerella, Phomopsis, Stemphylium

Fir (Abies) Cephalosporium, Lophodermium, Melampsora, Phomopsis, Sphaeropsis

Fir, Douglas Phaeocryptopus
Fir, Frasier Phaeocryptopus

Firethorn Fusarium, Fusicladium, Rhizoctonia

Fittonia Rhizoctonia

Four-o'clock Cercospora, Rhizoctonia
Fuchsia Botrytis, Phomopsis, Septoria
Garden Balsam Alternaria, Botrytis, Cercospora

Gardenia Alternaria, Botrytis, Diaporthe, Mycosphaerella, Pestalotia, Phomopsis, Phyllosticta, Rhizoctonia

Geranium Alternaria, Ascochyta, Bipolaris, Botrytis, Cercospora, Cylindrosporium, Helminthosporium, Puccinia, Ramularia,

Rhizoctonia, Septoria, Uromyces, Venturia

Gladiolus\* Alternaria, Botrytis, Cladosporium, Curvularia, Rhizoctonia, Septoria, Stemphylium

Gloxinia Botrytis, Colletotrichum

Gold Dust Tree Gloeosporium, Glomerella, Pestalotia, Phyllosticta

Gomphrena Cercospora

Gypsophila Botrytis, Rhizoctonia

Hawthorn Cercospora, Cylindrosporium, Gloeosporium, Gymnosporangium, Monilinia, Mycosphaerella, Phyllosticta, Septoria,

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Venturia

Hemlock, Eastern (Tsuga) Botrytis, Cylindrosporium, Melampsora, Rhizoctonia

Hibiscus Alternaria, Cercospora, Colletotrichum, Fusarium, Phyllosticta

(continued)

Hickory Cercospora, Cladosporium, Elsinoe, Fusarium, Gnomonia, Mycosphaerella, Pestalotia, Phyllosticta, Septoria

Holly Phyllosticta

Hollyhock Alternaria, Ascochyta, Cercospora, Colletotrichum, Puccinia, Septoria Honeysuckle Alternaria, Cercospora, Gloeosporium, Herpobasidium, Phyllosticta

Horse Chestnut See Buckeye

Hydrangea Ascochyta, Botrytis, Cercospora, Colletotrichum, Phyllosticta, Rhizoctonia, Septoria

Impatiens Cercospora, Phyllosticta, Rhizoctonia, Septoria

Indian Hawthorn Entomosporium

Iris Ascochyta, Botrytis, Cladosporium, Fusarium, Kabatiella, Phyllosticta, Puccinia, Rhizoctonia Ivy Cladosporium, Colletotrichum, Glomerella, Phyllosticta, Ramularia, Rhizoctonia, Sphaeropsis

Jade plant Gloeosporium, Phomopsis

Juniper Cercospora, Coryneum, Gymnosporangium, Lophodermium, Pestalotia, Phomopsis, Stigmina

Kalanchoe Cercospora, Stemphylium

Larkspur See Delphinium

Laurel, Cherry Alternaria, Cercospora, Coccomyces, Monilinia, Phyllosticta, Septoria
Laurel, Mountain Cercospora, Mycosphaerella, Pestalotia, Phomopsis, Rhytisma, Septoria

Lavender, Cotton Septoria

Lilac Botrytis, Cercospora, Cladosporium, Cylindrocladium, Gloeosporium

Lily Botrytis, Cercospora, Cladosporium, Colletotrichum, Fusarium, Puccinia, Ramularia, Rhizoctonia

Lirope Alternaria, Cercospora, Colletotrichum, Leptothyrium

Lobelia Botrytis, Cercospora, Puccinia, Rhizoctonia, Septoria

Loquat Colletotrichum, Fusicladium, Pestalotia, Phyllosticta, Septoria

Magnolia Alternaria, Cercospora, Cladosporium, Colletotrichum, Glomerella, Rhizoctonia

Mahonia Cercospora, Cylindrocladium, Gloeosporium, Leptosphaeria, Phomopsis, Phyllosticta, Puccinia

Maple Alternaria, Cercospora, Ciborinia, Fusarium, Marssonina, Monochaetia, Phomopsis, Phyllosticta, Rhizoctonia,

Rhytisma, Septoria, Sphaeropsis, Taphrina, Venturia

Myrtle Cercospora, Glomerella, Pestalotia

Narcissus Botrytis, Sclerotinia

Nasturtium Botrytis, Cercospora, Puccinia

Nannyberry Botrytis, Cercospora, Cladosporium, Helminthosporium, Monochaetia, Phomopsis, Phyllosticta, Ramularia

Nephathytis Cephalosporium Nicotiana Alternaria Nierembergia Botrytis

Oak Cephalosporium, Cercospora, Cladosporium, Cronartium, Elsinoe, Fusarium, Gloeosporium, Gnomonia,

Marssonina, Phyllosticta, Septoria, Taphrina, Venturia

Orchid Cercospora, Fusicladium, Mycosphaerella, Phyllosticta, Puccinia, Septoria

Osmanthus Alternaria, Cercospora, Colletotrichum, Phyllosticta

Palm, Areca Alternaria, Cercospora, Colletotrichum, Phomopsis, Phyllosticta, Septoria Palm, Arenga Cercospora, Colletotrichum, Cylindrocladium, Pestalotia, Phoma, Stigmina

Palm, Cabbage Fusarium, Gloeosporium, Pestalotia, Stigmina

Palm, Coconut Pestalotia

Palm, Date Alternaria, Fusarium, Helminthosporium, Pestalotia

Palm, King Alternaria, Fusarium, Helminthosporium, Pestalotia, Phomopsis

Palm, Phoenix Alternaria, Cercospora, Fusarium, Gloeosporium, Pestalotia, Phomopsis. Stigmina

Palm, Queen Glomerella, Septoria

Palm, Royal Alternaria, Cercospora, Colletotrichum, Helminthosporium

Palm, Washington Cercospora, Colletotrichum, Cylindrocladium, Pestalotia, Phoma, Stigmina

Pansy Alternaria, Botrytis, Cercospora, Colletotrichum, Peronospora, Phyllosticta, Ramularia, Rhizoctonia

Peach Cercospora, Cladosporium, Coryneum, Fusarium, Glomerella, Monilinia, Mycosphaerella, Phomopsis, Phyllosticta,

**Taphrina** 

Pear Alternaria, Botrytis, Cercospora, Cladosporium, Coryneum, Elsinoe, Fusarium, Glomerella, Gymnosporangium,

 $Helminthosporium,\,Monilinia,\,Mycosphaerella,\,Phomopsis,\,Phyllosticta,\,Venturia$ 

Peony Alternaria, Botrytis, Cercospora, Cladosporium, Gloeosporium, Phyllosticta, Septoria

Peperomia Colletotrichum, Gloeosporium, Rhizoctonia

Periwinkle Alternaria, Botrytis, Cladosporium, Colletotrichum, Phomopsis, Phyllosticta, Puccinia, Rhizoctonia, Septoria

Petunia Cercospora, Puccinia, Rhizoctonia, Stemphylium

Philodendron Gloeosporium, Colletotrichum

Phlox Ascochyta, Botrytis, Cercospora, Colletotrichum, Phyllosticta, Puccinia, Ramularia, Septoria, Stemphylium, Volutella

Photinia Cercospora, Gloeosporium, Gymnosporangium, Lophodermium, Pestalotia, Phyllosticta, Septoria

Pieris Alternaria, Pestalotia, Phyllosticta, Rhytisma

Pilea Alternaria, Botrytis, Cercospora, Colletotrichum, Helminthosporium, Phyllosticta

Pine, Norfolk Island Botrytis, Colletotrichum, Cronartium, Cylindrocladium, Fusarium, Lophodermium, Pestalotia, Rhizoctonia, Septoria,

Sirococcus

Pine Alternaria, Botrytis, Cronartium, Fusarium, Lophodermium, Monochaetia, Rhizoctonia, Septoria, Sirococcus

Pittosporium Alternaria, Cercospora, Gnomonia, Mycosphaerella, Phyllosticta, Rhizoctonia, Septoria

Plane tree Cercospora, Gnomonia, Phyllosticta, Septoria

Plum, ornamental Botrytis, Cercospora, Cladosporium, Coccomyces, Coryneum, Monilinia, Phyllosticta, Taphrina

Poinsettia\*\* Botrytis, Cercospora, Fusarium, Uromyces

Poplar Cercospora, Ciborinia, Colletotrichum, Cylindrocladium, Fusarium, Marssonina, Melampsora, Mycosphaerella,

Phyllosticta, Septoria, Stigmina, Taphrina, Venturia

Portulaca Rhizoctonia Pothos Rhizoctonia

Prayer plant Alternaria, Drechslera, Glomerella, Puccinia

Primrose Alternaria, Botrytis, Colletotrichum, Mycosphaerella, Puccinia, Ramularia, Uromyces

Privet Cercospora, Glomerella, Phomopsis, Phyllosticta, Ramularia

Protea Botrytis

Pyracantha Botrytis, Cercospora, Diplodia, Phomopsis, Phyllosticta, Sphaeropsis

Quince, flowering Cercospora, Fabraea, Gymnosporangium, Septobasidium

Red cedar, western (Thuja) Keithia (or Didymascella)

Red tip See Photinia

Redwood, Sequoia Botrytis, Cercospora, Mycosphaerella, Pestalotia, Phomopsis

Rhododendron Alternaria, Cercospora, Coryneum, Gloeosporium, Glomerella, Guignardia, Lophodermium, Mycosphaerella,

Pestalotia, Phomopsis, Rhizoctonia, Septoria, Venturia

Rose Alternaria, Bipolaris, Botryosphaeria, Botrytis, Cercospora, Cladosporium, Cylindrocladium, Diplocarpon, Elsinoe,

Gloeosporium, Helminthosporium, Leptosphaeria, Monochaetia, Mycosphaerella, Peronospora, Phyllosticta, Septoria

Rosemary Rhizoctonia

Russian olive Cercospora, Colletotrichum

Sage Cercospora, Peronospora, Puccinia, Ramularia, Rhizoctonia

Salvia Cercospora, Puccinia

Santolina Botrytis

Senecio Cercospora, Gloeosporium, Phyllosticta, Puccinia, Ramularia, Septoria

Schefflera Alternaria

Snakeplant Fusarium, Gloeosporium

Snapdragon Alternaria, Bipolaris, Botrytis, Cercospora, Colletotrichum, Drechslera, Fusarium, Helminthosporium, Peronospora,

Phyllosticta, Puccinia, Rhizoctonia

Spathiphyllum Alternaria
Spindletree See Euonymus
Spirea Cylindrosporium

Spruce Ascochyta, Botrytis, Cladosporium, Lophodermium, Rhizoctonia

Spurge Cercospora, Melampsora, Puccinia

Statice Alternaria, Ascochyta, Botrytis, Cercospora, Colletotrichum, Rhizoctonia, Uromyces

Strawflower Fusarium

Sumac Cercospora, Cladosporium, Fusarium, Phyllosticta, Septoria, Taphrina

Sunflower, ornamental Alternaria, Puccinia

Syngonium Cephalosporium, Erwinia, Fusarium

Tulip Botrytis
Venus flytrap Colletotrichum

Verbena Alternaria, Ascochyta, Botrytis, Cercospora, Phyllosticta, Puccinia, Rhizoctonia, Septoria, Stemphylium

Viburnum Botrytis, Cercospora, Cladosporium, Helminthosporium, Monochaetia, Phomopsis, Ramularia

Walnut Cercospora, Cladosporium, Cylindrocladium, Cylindrosporium, Gnomonia

Willow Ascochyta, Cercospora, Ciborinia, Cylindrosporium, Fusicladium, Gloeosporium, Marssonina, Melampsora,

Phomopsis, Phyllosticta, Ramularia, Rhytisma, Septoria, Taphrina, Venturia

Wisteria Alternaria, Cercospora, Colletotrichum, Gloeosporium, Pestalotia

Yucca Cercospora, Cylindrosporium, Gloeosporium, Puccinia

Zebra plant Alternaria, Cercospora, Colletotrichum
Zinnia Alternaria, Botrytis, Cercospora, Rhizoctonia

This product is not recommended for the treatment of marigolds due to highly variable plant responses.

#### **GRASSES: SODFARMS (AGRICULTURAL CROP USE)**

Applications restricted to lawn grasses by professional applicators. Not for homeowner use. For sodfarm applications, follow provisions within the Agricultural Use Requirements box.

DISEASE/PEST	RATE	TIMING INTERVAL
Algae	6 oz. in 3 to 5 gal/1000 sq. ft.; (16 lbs in 130-220 gals/A)	Begin when algae begins to appear. Repeat at 7 day intervals as long as condition persists.
Copper Spot (Gloeocercospora sorghi)	4-8 oz. in 3 to 5 gal/1000 sq. ft.; (11-22 lbs in 130-220 gals/A)	Begin application when disease appears.
Fusarium Blight (Fusarium spp.)	4-8 oz. in 3 to 5 gal/1000 sq. ft.; (11-22 lbs in 130-220 gals/A)	Repeat at 7-day intervals as long as condition persists.
Gray Leaf Spot (Pyricularia grisea)	8 oz. in 3 to 5 gal/1000 sq. ft.; (22 lbs in 130-220 gals/A)	
Red Thread (Laetisaria fuciformis)	4-8 oz. in 3 to 5 gal/1000 sq. ft.; (11-22 lbs in 130-220 gals/A)	
Slime Mold (Mucilago, Physarum, Fuligo)	4-8 oz. in 3 to 5 gal/1000 sq. ft.; (11-22 lbs in 130-220 gals/A)	
Dollar Spot (Sclerotinia homiocarpa)	6-8 oz. in 3 to 5 gal/1000 sq. ft.; (16-22 lbs in 130-220 gals/A)	
Leaf Spot (Helminosporium spp.) Rhizoctonia solani Brown Patch	3-4 oz. in 3 to 5 gal/1000 sq. ft.; (8-11 lbs in 130-220 gals/A)	
Pythium Blight (Pythium sp.)	8 oz. in 3 to 5 gal/1000 sq. ft.; (22 lbs in 130-220 gals/A)	Repeat at 5-day intervals, or more frequently if conditions are favorable for disease development.
Fusarium Snow Mold	6-8 oz. in 3 to 5 gal/1000 sq. ft.; (16-22 lbs in 130-220 gals/A)	Apply at 2-6 week intervals during winter.
Leaf Rust Stem Rust Stripe Rust	3-4 oz. in 3 to 5 gal/1000 sq. ft.; (8-11 lbs in 130-220 gals/A)	Begin when disease threatens. Repeat at 7-10 day intervals as long as disease persists.

Do not graze treated areas or feed clippings to livestock.

Do not use on grasses grown for seed.

Do not use on grasses intended for grazing, such as range or pasture grasses.

When conditions are unusually favorable for disease, use 6-8 oz./1000 sq. ft. (16-22 lbs/A) and reduce intervals to 3-5 days.

<sup>\*</sup>Do not exceed 0.75 lb per 100 gallons on flower spikes.

<sup>\*\*</sup>Do not exceed 1.5 lbs per 100 gallons.

#### **GRASSES: TURF USES (NON-AGRICULTURAL USE)**

Applications restricted to lawn grasses by professional applicators. Not for homeowner use. Follow provisions within the Non-Agricultural Use box. Lawn grasses

Golf courses, professional application to industrial (office park), municipal, and residential lawns

DISEASE/PEST	RATE	TIMING INTERVAL
Algae	6 oz. in 3 to 5 gal/1000 sq. ft.; (16 lbs in 130-220 gals/A)	Begin when algae begins to appear. Repeat at 7 day intervals as long as condition persists.
Copper Spot (Gloeocercospora sorghi)	4-8 oz. in 3 to 5 gal/1000 sq. ft.; (11-22 lbs in 130-220 gals/A)	Begin application when disease appears.
Fusarium Blight (Fusarium spp.)	4-8 oz. in 3 to 5 gal/1000 sq. ft.; (11-22 lbs in 130-220 gals/A)	Repeat at 7-day intervals as long as condition persists.
Gray Leaf Spot (Pyricularia grisea)	8 oz. in 3 to 5 gal/1000 sq. ft.; (22 lbs in 130-220 gals/A)	
Red Thread (Laetisaria fuciformis)	4-8 oz. in 3 to 5 gal/1000 sq. ft.; (11-22 lbs in 130-220 gals/A)	
Slime Mold (Mucilago, Physarum, Fuligo)	4-8 oz. in 3 to 5 gal/1000 sq. ft.; (11-22 lbs in 130-220 gals/A)	
Dollar Spot (Sclerotinia homiocarpa)	6-8 oz. in 3 to 5 gal/1000 sq. ft.; (16-22 lbs in 130-220 gals/A)	
Leaf Spot (Helminosporium spp.) Rhizoctonia solani Brown Patch	3-4 oz. in 3 to 5 gal/1000 sq. ft.; (8-11 lbs in 130-220 gals/A)	
Pythium Blight (Pythium sp.)	8 oz. in 3 to 5 gal/1000 sq. ft.; (22 lbs in 130-220 gals/A)	Repeat at 5-day intervals, or more frequently if conditions are favorable for disease development.
Fusarium Snow Mold	6-8 oz. in 3 to 5 gal/1000 sq. ft.; (16-22 lbs in 130-220 gals/A)	Apply at 2-6 week intervals during winter.
Leaf Rust Stem Rust Stripe Rust	3-4 oz. in 3 to 5 gal/1000 sq. ft.; (8-11 lbs in 130-220 gals/A)	Begin when disease threatens. Repeat at 7-10 day intervals as long as disease persists.

Do not graze treated areas or feed clippings to livestock.

Do not use on grasses grown for seed.

Do not use on grasses intended for grazing, such as range or pasture grasses.

When conditions are unusually favorable for disease, use 6-8 oz./1000 sq. ft. (16-22 lbs/A) and reduce intervals to 3-5 days.

#### CHRISTMAS TREES: Plantations and Nurseries

Aerial application: Apply 1 to 2 lb per acre using a minimum rate of 10 gallons of spray per acre during aerial applications.

Application of dilute sprays: Apply as thorough coverage spray using 1 to 2 lb per acre of 1 to 2 lbs per 100 gallons of water. Begin application at first sign of disease and repeat every 7 to 10 days. Use the shortest spray interval during periods of frequent rain, when severe disease conditions persist or during periods of rapid plant growth. This product may be used alone or in combination with other fungicides.

Use Site	Diseases Controlled	Application rate (lb/A or lb/100 gal)
	Ascochyta, Alternaria, Botrytis, Cephalosporium, Cladosporium, Cronartium, Fusarium, Lophodermium, Melampsora, Monochaetia, Phomopsis, Rhizoctonia, Septoria, Sirococcus, Sphaeropsis	1 to 2 lbs/A or 1 to 2 lb per 100 gallons, make applications at 7 to 10 day intervals.

#### STORAGE AND DISPOSAL

**PESTICIDE STORAGE: Important-**Never allow MANZATE PRO-STICK T&O Fungicide to become wet during storage. This may lead to certain chemical changes which will reduce the effectiveness of MANZATE PRO-STICK T&O Fungicide as a fungicide and create vapors which may be flammable. Keep container closed when not in use. Store product in original container only, away from other pesticides, fertilizer, food or feed.

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**ATTENTION:** This product contains mancozeb and ETU, chemicals known to the State of California to cause cancer in laboratory animals. ETU is also known to the State of California to cause birth defects or other reproductive harm in laboratory animals.

### IMPORTANT INFORMATION READ BEFORE USING PRODUCT

### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product reflect the opinion of experts based on field use and tests, and must be followed carefully. It is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of United Phosphorus, Inc. or Seller. Handling, storage, and use of the product by Buyer or User are beyond the control of United Phosphorus, Inc. and Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold United Phosphorus, Inc. and Seller harmless for any claims relating to such factors.

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