

# **SOD FARMS/ESTABLISHED TURF - FOR INITIAL APPLICATION OR HIGH INFESTATION**

## General Information

## Product Information

MULTIGUARD PROTECT EC may only be used on established turf on golf course tees and greens, practice greens and on turf/sod farms. The directions for turf/sod farms are found in Section I and directions for golf course use are found in Section II.

When used as directed, MULTIGUARD PROTECT EC controls root infesting plant parasitic nematodes, and fungal plant diseases such as species of Pythium, Phytophthora, Fusarium and Rhizoctonia.

The volatile properties of this pesticide can pose a risk of temporary nasal irritation from inhalation exposure if present in the treatment area or buffer zone during an application or during the buffer zone entry restricted period.

The liquid MULTIGUARD PROTECT EC formulation is supplied in 1 quart, 1 gallon, 2.5 gallon, 5 gallon containers or in 30 gallon drums. For 1 quart, 1 gallon, 2.5 gallon and 5 gallon containers an open pour system may be used. When using the 30 gallon drums, pump the formulation from the drum to the application equipment.

## Product Precautions

- Comply with all local regulations and ordinances. Obtain an application permit from Agricultural Regulatory Agencies if required.
- Handle this pesticide in the open, with the operator "upwind" from the container where there is good ventilation.
- Keep pets, livestock, and other domestic animals out of the treated area during application and entry-restricted period.

## Product Use Restrictions

MULTIGUARD PROTECT EC applications require the use of a buffer zone. A buffer zone is the area adjacent and surrounding the treated area to which entry is

restricted for a specified period of time. The applicator and owner/operator of the turf/sod farm, and golf course are responsible for ensuring that unprotected workers and bystanders do not enter the buffer zone during the application and during the buffer zone entry restricted period. All structures within the buffer zone must be vacated during the buffer zone entry restricted period. Land utilized for the buffer zone must be under the control of the applicator and owner/operator of the sod farm and/or golf course being treated. Buffer zones may not extend onto public roads, sidewalks, or other public areas.

Applications must not be made within the following distance of facilities (hospitals, prisons, nursing homes, occupied licensed schools, licensed day care facilities, and licensed assisted living facilities) that cannot be easily evacuated. If the buffer zone is greater than or equal to 300 feet, the distance must be  $\frac{1}{4}$  mile; if the buffer zone is less than 300 feet, the distance must be  $\frac{1}{8}$  mile.

Apply MULTIGUARD PROTECT EC between sunrise and sunset to avoid unfavorable meteorological conditions.

OBSERVE ALL RESTRICTIONS FROM MANUFACTURERS' LABELS WHEN USING IN TANK MIXTURES WITH MULTIGUARD PROTECT EC. FOLLOW MORE RESTRICTIVE LABELING OF ANY TANK MIX PARTNERS. DO NOT TANK MIX WITH ANY PRODUCT THAT CONTAINS A PROHIBITION ON TANK MIXING.

Limitations, Restrictions, and Exceptions

TURF/SOD FARM APPLICATIONS:

Weather Conditions

Apply MULTIGUARD PROTECT EC between sunrise and sunset to avoid unfavorable meteorological conditions. Prior to treatment, the National Weather Service weather forecast for the day of the application must be checked to determine if unfavorable weather conditions are predicted. Do not apply if an air stagnation advisory is in effect. Do not apply if there are light wind conditions observed (under 2 mph) or if wind speeds are forecast to remain below 5 mph during the application. Detailed local forecasts for weather conditions, wind speed, and air stagnation advisories may be obtained on-line at <http://www.nws.noaa.gov>, and radio or by contacting your local National Weather Service Forecasting Office.

## APPLICATION INFORMATION FOR TURF/SOD FARMS

### Sod Farm Site Management Plan Requirements

A Site Management Plan (SMP) must be developed for turf/sod farms applications and must contain the following elements:

- Applicator information (name, phone number, employer name, employer address)
- General site information
- Application block location, address or global positioning system (GPS) coordinates
- Name, address and phone number of owner/operator of the application block
- Map, aerial photo or detailed sketch showing field location , dimensions, buffer zones, property lines, roads, rights-of-way, sidewalks, permanent walking paths, bus stops, water bodies, walls, nearby structures (occupied and non-occupied), locations of posted signs for buffers, and sites requiring  $\frac{1}{4}$  or  $\frac{1}{8}$  mile buffer zones (schools, state licensed day care centers, nursing homes, assisted living facilities, hospitals, in-patient clinics, and prisons) with distances from the application site labeled.
- General application information (target product application date/window, EPA registration number; information about post-application irrigation with water, including the amount of water used, length of time irrigation equipment was run, amount of water/unit of area)
- Weather conditions (summary of forecasted conditions for the day of the application and the 48-hour period following the application)
- Wind speed
- Inversion conditions (e.g., shallow, compressed (low-level) temperature inversion)
- Air stagnation advisory
- Respirators and other personal protective equipment (PPE) for handlers (handler task, protective clothing, respirator type, respirator cartridge type, respirator cartridge replacement schedule, eye protection, gloves, other PPE) (Note: respirators are only required for outdoor applications to more than 18 acres.)

- Posting procedures, persons who will post signs, location of posting signs, procedures for sign removal
- State and tribal lead agency notification (if state and /or tribal lead agency requires notice, provide a list of contacts that were notified and date notified.)
- Authorized on-site personnel
- Names and phone numbers of all handlers
- Employer name, addresses, phone numbers for all handlers
- Tasks that each handler is authorized and trained to perform
- Date of PPE training for each handler
- Good Agricultural Practices (GAPs)
- Description of applicable mandatory GAPs
- Measurements and documentation to ensure GAPs are achieved (e.g., weather conditions, wind speed, air stagnation advisories.)
- Description of hazard communication. (The buffer zone around the application block has been posted in accordance with the label. Pesticide product labels and material safety data sheets are on-site and readily available for employees to review.)

For situations where an initial SMP is developed and certain elements do not change for multiple sites (e.g., applicator information, authorized on-site personnel, record-keeping procedures, emergency procedures), only the elements that have changed need to be updated in the site-specific SMP provided the following:

- The applicator supervising the application has verified that those elements are current and applicable to the application block before it is treated and has documented the verification of the site-specific SMP.
- Recordkeeping requirements are followed for the entire SMP (including elements that do not change).

Once the application begins, the applicator must make a copy of the SMP available

for viewing by handlers involved in the application.

The applicator or the owner/operator of the application block must provide a copy of the SMP to any federal, state, tribal, or local enforcement personnel who request the SMP. In the case of an emergency, the SMP must be available when requested by federal/state/local emergency response and enforcement personnel.

A Post-Application Summary containing the following elements must be prepared by the applicator:

- Actual date of the application, application rate, and size of application block treated.
- Summary of weather conditions on the day of the application and during the 48-hour period following the application.
- Complaint details (if applicable)
- Person filing complaint (e.g., on-site handler, person off-site)
- If off-site person, name and address, and phone number of person filing complaint
- Description of control measures or emergency procedures followed after complaint
- Buffer zones
- Application rate from lookup table on label (lbs ai/acre)
- Application block size from lookup table on label (acres)
- Buffer zone distance
- Description of incidents, equipment failure, or other emergency and emergency procedures followed (if applicable)
- Date of sign removal
- Any deviations from the SMP

The owner/operator of the turf/sod farm must keep a signed copy of the site-specific SMP and the post-application summary record for 2 years from the date of the application.

#### MIXING AND APPLICATION DIRECTIONS FOR TURF/SOD FARM USE

Field must be irrigated to at least 70% field capacity before application of MULTIGUARD PROTECT EC.

Apply up to 6 applications of MULTIGUARD PROTECT EC at 5.5 to 8.0 gallons of product/acre per year at 14-28 day intervals using only ground boom sprayers set to release spray at no more than two (2) feet above the ground. Use eight (8) gallons/ acre at the start of the season and under high infestation and/or until acceptable control is achieved. Then use 5.5 to 8.0 gallons/acre as a maintenance application at 14-28 day intervals. Within 15 minutes of application, irrigate into the soil to a depth of approximately six (6) inches using overhead sprinkler irrigation.

Refer to the note below for the amount of water to use depending upon soil type.

NOTE: In sands, loamy sands and sandy loam soils, apply  $\frac{1}{4}$ - $\frac{1}{2}$  inch of irrigation water (~ 6,800 - 13,600 gallons of water per acre) to move the MULTIGUARD PROTECT EC down into the soil to a depth of six (6) inches. On finer textured soils and soils with high silt and organic matter components, use the maximum amount of irrigation water ( $\frac{1}{2}$  inch) to move the MULTIGUARD PROTECT EC down to a six (6) inch depth.

#### MIXING AND APPLICATION

Apply in sufficient water to obtain wetting across the treated area to move the MULTIGUARD PROTECT EC down into the soil to a depth of 6 inches.

Apply at a concentration no greater than 10% MULTIGUARD PROTECT EC in water. When pre-mixing before application, begin by adding water to the tank and add the prescribed amount of MULTIGUARD PROTECT EC to the tank. MULTIGUARD PROTECT EC forms a stable emulsion at concentrations of 10% or less provided the tank mixture is agitated during the application process. Ensure that the mix tank has adequate mechanical and/or bypass agitation to keep the mixture in suspension.

Use  $\frac{1}{4}$  -  $\frac{1}{2}$  acre inch of water per treated acre depending on soil type

(approximately 6,800 - 13,600 gallons of water per treated acre or 157-313 gallons of water per 1000 sq ft).

#### Sod Farm Restrictions:

Do not treat more than 40 acres in a 24 hour period.

Entry into the buffer zone is prohibited for 8 hours following the end of application.

#### Dilution and watering in instructions

Dilute product 1:9 with water. Within 15 minutes of application, irrigate product into the soil to a depth of inches with overhead sprinklers.

In sands, loamy sands and sandy loam soils apply  $\frac{1}{4}$  -  $\frac{1}{2}$  acre-inch water. In finer texture soils and soils with high silt and organic materials, use the highest irrigation amount of  $\frac{1}{2}$  acre-inch of water to move the Multiguard Protect® EC into the soil.

#### Application/Timing

Apply up to 6 applications per year at 14- 28 day intervals.

#### Method

[Broadcast/Foliar Ground](#)

[Soil incorporation](#)

#### Rates

[field rates 0](#)

[field rates 1](#)

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#### Restricted Entry Interval

12 hours

#### Timings

[N.A.](#)