

SOILGARD™ 12G

Greenhouse, Nursery and Interiorscape Microbial Fungicide



FOR THE CONTROL OF “DAMPING-OFF” AND ROOT ROT PATHOGENS
OF ORNAMENTAL AND FOOD CROP PLANTS



Product Information Bulletin

850

GENERAL INFORMATION

SoilGard 12G is a microbial fungicide derived from a naturally occurring soil fungus. The active ingredient is antagonistic to plant pathogenic fungi such as *Pythium* and *Rhizoctonia*, which aids in control of these root rot pathogens. **SoilGard 12G** is a granular formulation that must be incorporated or drenched to achieve preventative activity on non-infected plants in soil or soilless media. It will not cure already-diseased plants.

Common Name: *Gliocladium virens* strain GL-21

Class: Biopesticide

Packaging: **SoilGard 12G** is packaged in 7.5 lb. bags.

RESTRICTED ENTRY INTERVAL (REI) AND SIGNAL WORD

REI = **0 hours** Signal Word = **CAUTION**

PERSONAL PROTECTION EQUIPMENT (PPE)

- Long-sleeved shirt and long pants
- Shoes plus socks
- Protective eyewear

MODE OF ACTION

The fungal active ingredient in **SoilGard 12G** uses multiple mechanisms to kill disease:

- Antibiosis – the active ingredient produces an anti-biotic that kills plant pathogens;
- Parasitism – the active ingredient attacks plant pathogens and consumes them;
- Competition – the active ingredient out-competes soil pathogens for nutrients (those needed by the disease pathogens, not those needed by plants);
- Exclusion – once the active ingredient is established, it prevents new pathogens from invading the soil.

USE SITES

SoilGard 12G may be used on ornamentals and food crop plants grown indoors and outdoors, in greenhouses, nurseries, and interiorscapes.

DISEASES CONTROLLED

- *Pythium*
- *Rhizoctonia*

BENEFITS OF SOILGARD 12G

- Labelled for food crops grown indoors and outdoors
- Environmentally compatible
- Rotational tool in IPM program

APPLICATION RATES

SoilGard 12G should be mixed at the rates of 1 to 1.5 lbs. per cubic yard of media. Granules must be distributed uniformly throughout the medium.

If the potting medium has been heat sterilized, allow it to cool to 110 degrees F or lower before adding **SoilGard 12G**.

Allow at least 24 hours after **SoilGard 12G** incorporation before planting seeds, cuttings, or other non-rooted plant material. Plants with established roots can be transplanted into treated soil immediately after mixing with **SoilGard 12G**.

DRENCH APPLICATIONS: **SoilGard 12G** can be applied to flats, pots, or beds as a drench at the rate of .5 lbs. to 2 lbs. per 100 gal. of water.

DRENCH APPLICATIONS: (CONTINUED)

Pre-mix the desired amount of **SoilGard 12G** in 2 to 5 gal. of water and agitate or stir for 30 minutes. Pour the liquid slurry into a tank containing the remainder of the water, leaving any unsuspended solids in the mixing bucket.

For greenhouse flats, plug trays, or pots: (*prior to planting*) apply the finished drench at 100 gal. per 800 sq. ft. if less than 4 inches deep. If more than 4 inches deep, apply 100 gal. per 400 sq. ft. Do not water the treated area for 12 hours after application. Allow at least 24 hours between drench application and planting of seeds or non-rooted cuttings. Plants with established roots can be transplanted immediately into treated pots.

For potted plants with established roots: apply the finished drench at the base of the plant at a rate of 3 to 4 fl. oz. per plant for small plants (less than 6 inches tall) or 8 to 12 fl. oz. per plant for larger plants (greater than 6 inches tall).

For outdoor planting beds: Apply the finished drench at a rate of 100 gal. per 400 sq. ft. Do not water the treated area for 12 hours after application.

TANK MIXING

Do not use other soil fungicides with **SoilGard 12G** at the time of incorporation. Later, addition of fungicides is acceptable.

OMRI APPROVED

All ingredients used in **SoilGard 12G** are naturally derived materials or microorganisms so it can be used for organically grown plants without concern (*approved by OMRI*). Also, **SoilGard 12G** does not harm beneficial soil organisms.

