MeloCon® WG

BIOLOGICAL NEMATICIDE

For agricultural use to suppress plant parasitic nematodes in the soil

FOR ORGANIC PRODUCTION

Active Ingredient: *Paecilomyces lilacinus* strain 251*.....6.0%
Other Ingredients:.....94.0%
Total: 100. 0%
*Contains a minimum of 1 X 10^{10} viable conidia/gram

OMRI™ Listed
Organic Materials Review Institute

Net Contents: 20 Pounds

EPA Reg. No. 72444-2
EPA Est. No. 72444-DEU-001

Manufactured by:
PROPHYTA Biologischer Pflanzenschu GmbH
Inselstraße 12
D-23999 Malchow/Poel, Germany

prophyta
Biologischer Pflanzenschutz GmbH

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID
If swallowed:
- Call a poison control center of 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 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.

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.

Hot Line Number
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

For emergency information, call a local poison control center at 1-800-222-1222.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION
Harmful if swallowed, if absorbed through skin or inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE):
Applicators and other handlers must wear:
- Long-sleeved shirt and long pants.
- Waterproof gloves.
- Shoes plus socks.

Mixers/loaders and applicators must wear a NIOSH-approved respirator with any N, P, R, or HE filter. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization. Follow 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 CONTROLS:
When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

USER SAFETY RECOMMENDATIONS
Users should
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS:
For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash waters or rinsate.

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 State or Tribal agency responsible for pesticide regulation.

Read the entire label before using.

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 restricted-entry interval (REI) of 4 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.
- Waterproof gloves.
- Shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to use 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.

Keep unprotected persons out of treated areas until sprays have dried.

GENERAL INFORMATION: MeloCon® WG is a water dispersible granule used to suppress plant parasitic nematodes in agricultural soils. MeloCon® WG is intended for use as part of an Integrated Pest Management (IPM) system. When used as part of a complete disease control program, MeloCon® WG suppresses soil infestations of plant parasitic nematodes.

PESTS CONTROLLED:
For suppression of plant parasitic nematodes including *Meloidogyne* spp. (Root Knot Nematode), *Radopholus similis* (Burrowing Nematode), *Heterodera* spp. and *Globodera* spp. (Cyst Nematode), *Rotylenchulus reniformis* (Reniform Nematode), *Nacobbus* spp. (False Root-Knot Nematode), *Helicotylenchus* spp. (Spiral Nematode), *Belonolaimus* spp. (Sting Nematode) and *Pratylenchus* spp. (Root Lesion Nematodes) on food and non-food crops listed on this label.

Mixing Directions:
Determine total volume of water needed for application according to tables below.
- **Do not tank-mix MeloCon® WG with fungicides, acids, alkalines or any substances that attack organic material.**
- Fill the spray tank to approximately 3/4 (three-fourths) of the desired volume with clean water and begin agitation.
- Add the recommended amount of product and complete the filling process.
- Maintain agitation throughout the mixing and application process.
- For best results, prepare the mixture immediately before use. Do not allow mixture to stand overnight.

CHEMIGATION DIRECTIONS FOR USE

Application through drip (trickle) or sprinkler (mirco-sprinkler) irrigation:
MeloCon® WG may be applied through drip (trickle) or sprinkler (micro-sprinkler) irrigation systems either pre-plant or to the crop at a rate appropriate to the crop as shown in the application instructions below. If applied in this manner, irrigate with enough water to saturate the soil to a depth of least 4 inches.

Mixing instructions: A supply tank is recommended. Mix MeloCON® WG in the supply tank to a concentration appropriate to cover the intended acreage. Agitation is required for mixing and maintaining the suspension of the spores of the active agent in the injection solution. All of the MeloCon® WG should be applied in 24 hours.

Apply this product only through the following types of systems: drip (tape and soakers) and sprinkler (micro-sprinkler) irrigation systems. Do not apply this product through any other type of irrigation system.

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

If you have questions about calibration of your irrigation system, you should contact your State Extension Service specialists, equipment manufacturers or other experts.

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.

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 publicwater systems are in place.

Chemigation Using Public Water Systems

1. 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 regular 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, back flow 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 flow 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.
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.
5. 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.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.

Chemigation Using Drip (Trickle)

1. 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 back flow.
2. 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.
4. The system must contain functional inter-locking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. 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.
7. The entire treatment should be applied during the first 1/4 to 1/2 of the total irrigation.
8. Mix MeloCon® WG in the supply tank to a concentration appropriate to cover the area to be treated.
9. Agitation is required for mixing and maintaining the suspension of the spores of the active agent in the injection solution.

Chemigation Using sprinkler (micro-sprinkler)

1. 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 back flow.
2. 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 dosed, 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.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. 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.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.
8. The entire treatment should be applied during the first 1/4 or 1/2 of the total irrigation.
9. Mix MeloCon® WG in the supply tank to a concentration appropriate to cover the area to be treated.
10. Agitation is required for mixing and maintaining the suspension of the spores of the active agent in the injection solution.

Application Instructions for MeloCon® WG on Vegetables, Strawberries, Pineapples, Ornamentals, Tobacco, Bananas, Citrus, Nuts, Peaches, and Grape Vines.

VEGETABLES, STRAWBERRIES, PINEAPPLES, ORNAMENTALS, and TOBACCO

Transplant treatment

1. For: 100 cubic ft. of soil
   Use: 0.5 lb. (1.75 Cups) product
   In: 5 gal. water
2. Treat just prior to transplanting.
3. Spray or pour the product evenly over the seedling/transplant trays or pots using conventional ground application equipmment.
4. Water in by irrigation or pouring until the soil is saturated.

The Contents of one package will treat:
10 lb. package: 2,000 cubic ft. of the transplant root soil
20 lb. package: 4,000 cubic ft. of the transplant root soil
50 lb. package: 10,000 cubic ft. of the transplant root soil

Soil Treatment

1. For: 2,000 plants or 1,500 ft. of the row (6 in. wide band)
   Use: 1 lb. (3.5 Cups) product
   In: 5 gal. water
2. Treat the soil 14 days before intended transplant date (just the holes where the plants will be placed). *If soils have just been fumigated use the product only as a transplant and follow up with soil treatment 6 weeks after transplanting.*
3. Use drip irrigation to apply the product.
4. Use enough water to transport the product into the root zone.
5. After transplanting, treat at the same rate every 6 weeks.

The Contents of one package will treat:
10 lb. package: The soil of 20,000 plants or if band applied (6 in. wide band) 15,000 feet of row.
20 lb. package: The soil of 40,000 plants or if band applied (6 in. wide band) 30,000 feet of row.
50 lb. package: The soil of 100,000 plants or if band applied (6 in. wide band) 75,000 feet of row.

CITRUS, TREE NUTS, PEACHES and GRAPEVINES

1. For: 500 sq. ft. of soil
   Use: 1 lb. (3.5 Cups) product
   In: 5 gal. water
2. Spray product suspension outward from stem to cover root system using conventional spraying equipmment. Alternatively, apply the product through the micro-sprinkler irrigation system (if available).
   Do not allow any treated water to come to contact with the fruit.
3. Water in by irrigation if possible, or apply before or during rain.
4. Repeat every 4 months.

The Contents of one package will treat:
10 lb. package: 5,000 sq. ft. around the stem base of the trees.
20 lb. package: 10,000 sq. ft. around the stem base of the trees.
50 lb. package: 25,000 sq. ft. around the stem base of the trees.

BANANAS

At planting

1. For: 250 plants
   Use: 1 lb. (3.5 Cups) product
   In: 125 gal. water
2. Apply 1 qt. of suspension to each planting hole just before planting using conventional ground application equipment.
3. Put plants in planting holes.
4. Apply another 1 qt. of suspension around the plants using conventional ground application equipment.
5. Water in by irrigation if possible, or apply before or during rain.

The Contents of one package will treat:
10 lb. package: The soil of 2,500 plants.
20 lb. package: The soil of 5,000 plants.
50 lb. package: The soil of 12,500 plants.

Established plants

1. For: 250 plants
   Use: 1 lb. (3.5 Cups) product
   In: 125 gal. water
2. Apply suspension in 6-inch radius around daughter suckers using conventional ground application equipment. Alternatively, apply the product through the micro-sprinkler irrigation system (if available). Do not allow any treated water to come to contact with the fruit.
3. Water in by irrigation if possible, or apply before or during rain.
4. Repeat every 4 months.

The Contents of one package will treat:
10 lb. package: The soil of 2,500 plants.
20 lb. package: The soil of 5,000 plants.
50 lb. package: The soil of 12,500 plants.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal.

PESTICIDE STORAGE

Store in a dry, cool place out of direct sunlight and away from heat sources at 35-40°F or below for up to six months. Product is stable for up to 12 months when stored frozen. Keep from overheating.

PESTICIDE DISPOSAL

To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

CONTAINER DISPOSAL

Nonrefillable container. Do not reuse or refill this container. Completely empty container into application equipment by shaking and tapping sides and bottom to loose clinging particles. Then offer for recycling if available or dispose of empty container in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances.

WARRANTY

PROPHYTA Biologischer Pflanzenschutz GmbH warrants that the product conforms to the description on the label and is reasonably fit for the purposes set forth on the label, when used according to directions under normal use conditions. Neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, expressed or implied, extends to the use of this product contrary to the label instructions; the buyer assumes the risk of any such uses.