

# MeloCon® WG

## Biological Nematicide

For control of plant-parasitic nematodes in the soil



Can be Used for Organic Production



For Organic Use

Net Weight: 20 Pounds  
EPA Reg. No. 264-1175-70051  
EPA Est. No. 000264-DEU-008  
Batch No.

<b>ACTIVE INGREDIENT:</b> <i>Paecilomyces lilacinus</i> strain 251*	6.0%
<b>OTHER INGREDIENTS:</b>	94.0%
<b>TOTAL:</b>	100.0%

\*Contains a minimum of 1 x 10<sup>10</sup> spores per gram of product

## KEEP OUT OF REACH OF CHILDREN CAUTION

For **MEDICAL** and **TRANSPORTATION** Emergencies **ONLY** Call 24 Hours A Day 1-800-255-3924  
For **PRODUCT USE** Information Call 1-800-250-5024

**PRODUCED FOR**  
Certis USA  
9145 Guilford Rd. Suite 175  
Columbia, MD 21046  
Tel: 1-800-250-5024  
Product of Germany



151001DV2 12/18  
US60504839D

### FIRST AID

<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>

**In case of emergency call toll free the Emergency Response Telephone No. 1-800-255-3924. Have a product container or label with you when calling a poison control center or doctor, or going for treatment.**

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS:

##### CAUTION

Harmful if swallowed, 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 dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95. 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 or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-5)], 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 breakdown.

### USER SAFETY RECOMMENDATIONS

<b>Users should:</b>	<ul style="list-style-type: none"> <li>• Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.</li> <li>• 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.</li> </ul>
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#### 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 disposing of equipment wash waters or rinsate.

This is a Specimen Label. It may not reflect the most-recent approved label for use in your state. Always refer to the label on the product packaging for approved use instructions. Please contact your Certis sales representative for more information.

## 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.

**EXCEPTION:** If the product is soil incorporated or soil injected, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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 uses of this product that are NOT within the scope of the Worker Protection Standard (WPS) 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.

### PRODUCT INFORMATION

MeloCon® WG is a water dispersible granule formulation containing spores of a soil fungus that parasitizes many species of plant-parasitic nematodes. MeloCon® WG is intended for use as part of an Integrated Pest Management (IPM) system. When used as part of a complete pest management program, MeloCon® WG reduces crop damage by plant-parasitic nematodes.

### FOR CONTROL OF CROP DAMAGE CAUSED BY THE FOLLOWING PESTS:

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|---|--|
| <ul style="list-style-type: none"> <li>Awl nematodes (<i>Dolichodorus</i> species)</li> <li>Burrowing nematode (<i>Radopholus similis</i>)</li> <li>Citrus nematode (<i>Tylenchulus semipenetrans</i>)</li> <li>Cyst nematodes (<i>Heterodera</i> and <i>Globodera</i> species)</li> <li>False root-knot nematodes (<i>Nacobus</i> species)</li> <li>Lance nematodes (<i>Hoplolaimus</i> species)</li> <li>Lesion nematodes (<i>Pratylenchus</i> species)</li> <li>Reniform nematode (<i>Rotylenchulus reniformis</i>)</li> </ul> | <ul style="list-style-type: none"> <li>Ring nematodes (<i>Criconeoides</i>, <i>Criconebella</i> and <i>Mesocriconema</i> species)</li> <li>Root-knot nematodes (<i>Meloidogyne</i> species)</li> <li>Spiral nematodes (<i>Helicotylenchus</i> and <i>Rotylenchus</i> species)</li> <li>Stem nematode (<i>Ditylenchus dipsaci</i>)</li> <li>Sting nematode (<i>Belonolaimus longicaudatus</i>)</li> <li>Stubby root nematodes (<i>Trichodorus</i> and <i>Paratrichodorus</i> species)</li> <li>Stunt nematodes (<i>Tylenchorhynchus</i> species)</li> </ul> |
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### MIXING DIRECTIONS

- Determine the total volume of water needed for application according to the application tables below.
- Fill the spray tank to approximately 3/4 (three-fourths) of the desired volume with clean water and begin agitation.
- Add the specified amount of MeloCon® WG to the tank (consult application tables below). Do not allow spray mixture to stand overnight or for longer than 24 hours. Finish filling the tank to the desired volume that provides maximum coverage.
- Maintain agitation throughout the mixing and application process.

### Tank Mixing:

- Application efficiency may be enhanced by inclusion of a soil wetting agent to help the spores penetrate soil into the root zone.
- **Do NOT mix** MeloCon® WG with chlorothalonil, mancozeb, triazole or strobilurin fungicides.
- Do not mix with strong acids, bases or other caustic materials. Maintain a neutral or slightly acidic pH (6-7) in the spray tank.
- Mix MeloCon® WG only with products for which such mixing is permitted by the label for that product. Test the physical compatibility of unfamiliar mixtures by combining small amounts of the products in the intended proportions and mix order before actual use ("jar test"). Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures.
- For information on which adjuvants and pesticides can be mixed with MeloCon® WG without harming the beneficial fungus it contains, contact your Technical Sales Representative or the Manufacturer.
- For preparation of a tank mix, add the other products first. If the other products are likely to cause foaming, however, add them after filling up the tank to the desired volume of water. Then add MeloCon® WG.

## APPLICATION INSTRUCTIONS

Crop group, crop or use site	Application type/timing	Application rates and instructions
<b>Fruiting vegetables</b> , including Tomato, Tomatillo, Peppers (all types) and Eggplant  <b>Leafy vegetables</b> , including Arugula, Head and Leaf Lettuce, Spinach (all types), Celery (all types), Corn salad (Mâche), Cress (all types), Endive, Radicchio and Rhubarb  <b>Brassica (cole) leafy vegetables</b> , including Broccoli (all types), Brussels Sprouts, Cabbage (all types), Cauliflower, Collards, Kale and Mustard Greens (all types)  <b>Cucurbit vegetables</b> , including Watermelon, Cantaloupe, Muskmelon (including Honeydew Melon and other melons), Cucumbers (including pickling), Edible Gourds, Pumpkins and Squash (all types)  <b>Strawberry, Artichoke, Pineapple</b> <b>Tobacco, Herb &amp; spice crops</b> <b>Indoor- or outdoor-grown cut flowers and ornamental bulbs</b>	<p>Application to field soils <b>before</b> planting or transplanting</p> <p>Application to transplants <b>just before</b> transplanting into the field</p>	<p>Apply 2 to 4 pounds of MeloCon® WG per acre. Applications can be made by the following methods:</p> <ul style="list-style-type: none"> <li>• Drenching, drip (trickle) or sprinkler application (see "Instructions for MeloCon® WG Application through Irrigation Systems"). To enhance penetration of spores into the root zone, consider mixing MeloCon® WG with a soil wetting agent.</li> <li>• Surface spray on moist soil with 40 – 100 gallons water per acre followed by incorporation using light tillage.</li> <li>• Surface spray with 20 – 40 gallons water per acre followed by overhead irrigation. Use enough irrigation water to wet the soil into the root zone.</li> <li>• Direct injection to anticipated root depth using shank or other soil injection equipment. Apply with 30 – 40 gallons water per acre.</li> </ul> <p>Pre-plant applications may be either broadcast over an entire field or concentrated (banded) into planting rows.</p> <p>Apply when soil temperature at 4-inch depth is 60°F or higher. Bioactivity of MeloCon® WG is greatest at soil temperatures between 70° and 90°F.</p> <p>Apply to nematode-infested (non-fumigated) soil up to 14 days before planting or transplanting. Follow up with applications on the field soil <b>at or after</b> planting or transplanting (see third section below). If the soil has been fumigated recently (within 2 weeks), make the initial MeloCon® WG application to transplants <b>just before</b> transplanting into the field, as described in the section that follows. Alternatively, apply MeloCon® WG to fumigated soil <b>at or after</b> planting or transplanting (see third section below).</p> <p>Mix 0.5 pound (1 3/4 cup) of MeloCon® WG with 5 gallons of water, and apply as a drench spray to 100 cubic feet of soil or other growth media in transplant flats, pots or other rooting containers. Follow the application with sufficient additional water (such as by drenching or overhead irrigation) to saturate the soil or rooting medium. As needed, follow up with applications at 4- to 6-week intervals <b>at or after</b> transplanting, as described in the section that follows.</p>

Crop group, crop or use site	Application type/timing	Application rates and instructions
<p><b>(cont.)</b>  <b>Fruiting vegetables</b>, including Tomato, Tomatillo, Peppers (all types) and Eggplant</p> <p><b>Leafy vegetables</b>, including Arugula, Head and Leaf Lettuce, Spinach (all types), Celery (all types), Corn salad (Mâche), Cress (all types), Endive, Radicchio and Rhubarb</p> <p><b>Brassica (cole) leafy vegetables</b>, including Broccoli (all types), Brussels Sprouts, Cabbage (all types), Cauliflower, Collards, Kale and Mustard Greens (all types)</p> <p><b>Cucurbit vegetables</b>, including Watermelon, Cantaloupe, Muskmelon (including Honeydew Melon and other melons), Cucumbers (including pickling), Edible Gourds, Pumpkins and Squash (all types)</p> <p><b>Strawberry, Artichoke, Pineapple</b></p> <p><b>Tobacco, Herb &amp; spice crops</b></p> <p><b>Indoor- or outdoor-grown cut flowers and ornamental bulbs</b></p>	<p>Application to field soils <b>at or after</b> planting or transplanting</p>	<p>Apply 2 to 4 pounds of MeloCon® WG per acre by one of the following methods:</p> <ul style="list-style-type: none"> <li>• Drip (trickle) application (see "Instructions for MeloCon® WG Application through Irrigation Systems").</li> <li>• Banded spray 4" to 6" wide, in-furrow at planting (over or under the seed line).</li> </ul> <p>Apply sufficient water during or immediately after applications to thoroughly wet the soil into the root zone.</p> <p>MeloCon® WG can also be mixed with water and injected directly into the rooting zone using a shank or other injection equipment, preferably on both sides of the plant row.</p> <p>Repeat applications at 4- to 6-week intervals as needed to control plant-parasitic nematode populations during the crop period.</p> <p>To enhance penetration of spores into the root zone, consider mixing MeloCon® WG with a soil wetting agent.</p>
<p><b>Root and tuber vegetables</b>, including Beets (except Sugar Beet), Carrot, Cassava, Ginger, Horseradish, Parsnips, Radish, Rutabaga, Taro, Yams and Turnip</p> <p><b>Onions, Garlic and other Bulb vegetables</b></p>	<p>Application to field soils <b>before</b> planting or transplanting</p>	<p>Apply 4 to 9 pounds of MeloCon® WG per acre. Applications can be made by the following methods:</p> <ul style="list-style-type: none"> <li>• Drenching, drip (trickle) or sprinkler application (see "Instructions for MeloCon® WG Application through Irrigation Systems"). To enhance penetration of spores into the root zone, consider mixing MeloCon® WG with a soil wetting agent.</li> <li>• Surface spray on moist soil with 40 – 100 gallons water per acre followed by incorporation using light tillage.</li> <li>• Surface spray with 20 – 40 gallons water per acre followed by overhead irrigation. Use enough irrigation water to wet the soil into the root zone.</li> <li>• Direct injection to anticipated root depth using shank or other soil injection equipment. Apply with 30 – 40 gallons water per acre.</li> </ul> <p>Pre-plant applications may be either broadcast over an entire field or concentrated (banded) into planting rows.</p> <p>Apply when soil temperature at 4-inch depth is 60°F or higher. Bioactivity of MeloCon® WG is greatest at soil temperatures between 70° and 90°F.</p> <p>Apply to nematode-infested (non-fumigated) soil up to 14 days before planting or transplanting. Follow up with applications on the field soil <b>at</b> planting or transplanting (see third section below).</p> <p>If the soil has been fumigated recently (within 2 weeks), make the initial MeloCon® WG application to transplants <b>just before</b> transplanting into the field, as described in the section that follows. Alternatively, apply MeloCon® WG to fumigated soil <b>at</b> planting or transplanting (see third section below).</p>
	<p>Application to transplants <b>just before</b> transplanting into the field</p>	<p>Mix 0.5 pound (1 3/4 cup) of MeloCon® WG with 5 gallons of water, and apply as a drench spray to 100 cubic feet of soil or other growth media in transplant flats, pots or other rooting containers. Follow the application with sufficient additional water (such as by drenching or overhead irrigation) to saturate the soil or rooting medium.</p>
	<p>Application to field soils <b>at</b> planting or transplanting</p>	<p>Apply 2 to 4 pounds of MeloCon® WG per acre by one of the following methods:</p> <ul style="list-style-type: none"> <li>• Drip (trickle) application (see "Instructions for MeloCon® WG Application through Irrigation Systems").</li> <li>• Banded spray 4" to 6" wide, in-furrow at planting (over or under the seed row).</li> </ul> <p>Apply sufficient water during or immediately after applications to thoroughly wet the soil into the root zone.</p> <p>MeloCon® WG can also be mixed with water and injected directly into the rooting zone using a shank or other injection equipment, preferably on both sides of the plant row.</p> <p>To enhance penetration of spores into the root zone, consider mixing MeloCon® WG with a soil wetting agent.</p>
<p><b>Grapevines</b> (Wine Grapes, Table Grapes and Raisins)</p> <p><b>Berries</b>, including Blackberries, Blueberries, Cranberry*, Currants, Elderberry, Gooseberry, Huckleberry, Loganberry, Lingonberry and Raspberries</p> <p><b>Citrus fruits</b></p> <p><b>Pome fruits</b>, including Apple, Loquat, Pear and Quince</p> <p><b>Stone fruits</b>, including Apricot, Cherries, Nectarine, Peach, Plums and Plumcot</p> <p><b>Tree nuts</b>, including Almond, Beech Nut, Cashew, Chestnut, Hazelnut, Macadamia Nut, Pecan and Walnut</p> <p><b>Avocado, Coffee, Pistachio, Pomegranate</b></p> <p>*For Cranberries: Do not apply when bog or field is flooded</p>	<p>For multiple trees, bushes, or vines (full or partial orchard or vineyard application)</p>	<p>Apply 2 to 4 pounds of MeloCon® WG per acre by one of the following methods:</p> <ul style="list-style-type: none"> <li>• Drip (trickle) application (see "Instructions for MeloCon® WG Application through Irrigation Systems").</li> <li>• Micro-irrigation application (see "Instructions for MeloCon® WG Application through Irrigation Systems"). Apply through micro-irrigation only when the irrigation is soil directed, the heights of the nozzles are below the canopy and irrigation water does not come into contact with aboveground harvestable food commodities. <b>DO NOT</b> use mist sprayers, which produce small droplets likely to drift.</li> <li>• Injection with 30 – 40 gallons water per acre directly into the root zone using a shank or other injection equipment.</li> <li>• Soil-directed spray with 30 – 100 gallons per acre from stem to drip line (outer reaches of the branches or vines), ensuring foliage and aboveground harvestable food commodities are not contacted by the spray.</li> </ul> <p>Apply sufficient water during or immediately after application to thoroughly wet the soil into the root zone. Alternatively, applications can be made before or during rainfall to assist in movement to the roots.</p> <p>To enhance penetration of spores into the root zone, consider mixing MeloCon® WG with a soil wetting agent.</p> <p>Repeat applications every 2-4 months or during root flush, as needed.</p>

Crop group, crop or use site	Application type/timing	Application rates and instructions
<p><b>(cont.)</b>  <b>Grapevines</b> (Wine Grapes, Table Grapes and Raisins)  <b>Berries</b>, including Blackberries, Blueberries, Cranberry*, Currants, Elderberry, Gooseberry, Huckleberry, Loganberry, Lingonberry and Raspberries  <b>Citrus fruits</b>  <b>Pome fruits</b>, including Apple, Loquat, Pear and Quince  <b>Stone fruits</b>, including Apricot, Cherries, Nectarine, Peach, Plums and Plumcot  <b>Tree nuts</b>, including Almond, Beech Nut, Cashew, Chestnut, Hazelnut, Macadamia Nut, Pecan and Walnut  <b>Avocado, Coffee, Pistachio, Pomegranate</b>  *For Cranberries: Do not apply when bog or field is flooded</p>	For individual trees, bushes, or vines	<p>Mix 4.5 ounces (1 cup) of MeloCon® WG in 5 gallons of water, and apply as a drench or spray to the soil from stem to drip line (outer reaches of the branches or vines), ensuring foliage and aboveground harvestable food commodities are not contacted by the spray.</p> <p>Five gallons of mix will treat up to 500 square feet of soil, or the area under approximately 5 mature trees or vines.</p> <p>Apply sufficient water during or immediately after application to thoroughly wet the soil into the root zone. Alternatively, applications can be made before or during rainfall to assist in movement to the roots.</p> <p>To enhance penetration of spores into the root zone, consider mixing MeloCon® WG with a soil wetting agent.</p> <p>Repeat applications every 2-4 months or during root flush, as needed.</p>
<b>Banana and Plantain</b>	At planting	<p>For 250 plants: Mix 1 pound (3 1/2 cups) of MeloCon® WG in water (20 – 100 gallons per acre), and apply as a drench or coarse spray in the planting hole just before placing the plant in the hole and then around the base of each plant immediately after planting.</p> <p>Use conventional ground application equipment, backpack sprayers or hand-held dippers for these soil-directed applications.</p> <p>Water in with standard (quantity and equipment) irrigation to wet the soil into the root zone, or apply before rainfall.</p>
	Established plants, every 4 months	<p>For 250 plants: Mix 1 pound (3 1/2 cups) of MeloCon® WG in water (20 – 100 gallons per acre). Apply suspension in a 6-inch radius to the soil around daughter suckers using conventional ground application equipment or backpack sprayers.</p> <p>Alternatively, apply through micro-irrigation (see "Instructions for MeloCon® WG Application through Irrigation Systems"). Apply through micro-irrigation only when the irrigation is soil directed, the heights of the nozzles are below the canopy and irrigation water does not come into contact with aboveground harvestable food commodities. <b>DO NOT</b> use mist sprayers, which produce small droplets likely to drift.</p> <p>Water in with standard (quantity and equipment) irrigation to wet the soil into the root zone, or apply before rainfall.</p>
<b>Sugar beet</b>	In-furrow application at planting	Apply 6 – 9 pounds of MeloCon® WG in a minimum of 20 gallons of water per acre into the seed furrow and cover with soil.
<b>Peanut*</b> (Choose the most appropriate treatment method to fit your operation and management!)	Pre-plant incorporation prior to bed forming	Apply 3 – 6 pounds of MeloCon® WG in a minimum of 20 gallons of water per acre to moist soil (if soil is not moist, apply prior to rainfall or pre-plant irrigation) prior to bed forming. Follow up with a pre-pegging application as described below.
	Pre-planting bed treatment	Apply 3 – 6 pounds of MeloCon® WG in a minimum of 20 gallons of water per acre in a 6- to 8-inch band on top of the row (on double row peanuts in a 14- to 16-inch band) and incorporate thoroughly into the top 6 to 8 inches of moist soil (if soil is not moist, apply prior to rainfall or pre-plant irrigation). Follow up with a pre-pegging application as described below.
	In-furrow application	Apply 3 – 6 pounds of MeloCon® WG in a minimum of 20 gallons of water per acre into the seed furrow and cover with soil. If possible, apply prior to an at-planting irrigation. To enhance penetration of spores into the root zone, consider mixing MeloCon® WG with a soil wetting agent. MeloCon® WG may be applied in conjunction with liquid peanut inoculants. Follow up with a pre-pegging application as described below.
	At minimum tillage: Post-plant irrigation or rainfall drench	Apply 3 – 6 pounds of MeloCon® WG in a minimum of 20 gallons of water per acre to moist soil. Water in the product immediately after planting. To enhance penetration of spores into the root zone, consider mixing MeloCon® WG with a soil wetting agent. Follow up with a pre-pegging application as described below.
	Post-planting (pre-pegging) drench	Apply 3 – 6 pounds of MeloCon® WG in a minimum of 20 gallons of water per acre. Spray prior to rainfall or irrigation, prior to pegging, and at the base of the plants. The application is only to be soil directed. To enhance penetration of spores into the root zone, consider mixing MeloCon® WG with a soil wetting agent.
<b>Cotton*</b> (Choose the most appropriate treatment method to fit your operation and management!)	Pre-plant incorporation prior to bed forming	Apply 1.5 – 3 pounds of MeloCon® WG in a minimum of 20 gallons of water per acre to moist (if soil is not moist, apply prior to rainfall or pre-plant irrigation) soil prior to bed forming. Follow up with a post-emergent drench as described below.
	In-furrow treatment	Apply 1.5 – 3 pounds of MeloCon® WG in a minimum of 20 gallons of water per acre into the furrow prior to planting cotton. Apply into the seed furrow and cover with soil. If possible, apply prior to an at-planting irrigation. To enhance penetration of spores into the root zone, consider mixing MeloCon® WG with a soil wetting agent. Follow up with a post-emergent drench as described below.
	At minimum tillage: Post-plant irrigation or rainfall drench	Apply 1.5 – 3 pounds of MeloCon® WG in a minimum of 20 gallons of water per acre to moist soil and water in the product immediately after planting. To enhance penetration of spores into the root zone, consider mixing MeloCon® WG with a soil wetting agent. Follow up with a post-emergent drench as described below.

\* Not for use in California

Crop group, crop or use site	Application type/timing	Application rates and instructions
<b>(cont.) Cotton*</b> (Choose the most appropriate treatment method to fit your operation and management!)	Post-emergence application at the 6 <sup>th</sup> to 7 <sup>th</sup> true leaf stage	Apply 1.5 – 3 pounds of MeloCon® WG in 30 – 40 gallons of water per acre to cotton using shank or other soil injection equipment. Apply when cotton is in the 6th to 7th true leaf stage of growth by placing into the soil alongside the seed furrow. Application equipment can have either one or two coulters and knives per row. To enhance penetration of spores into the root zone, consider mixing MeloCon® WG with a soil wetting agent. This treatment will extend the suppression of nematode populations when applied during the growing season and after the pre-plant application of a soil fumigant, at-plant application of a contact nematicide or use of a seed treatment nematicide.
<b>Potato / Sweet potato</b> (Choose the most appropriate treatment method to fit your operation and management!)	Pre-planting application	Apply 6 – 9 pounds of MeloCon® WG per acre to potatoes / sweet potatoes planted in 42- to 48-inch rows. Apply in a 14-inch banded or broadcast spray of 20 – 40 gallons water per acre while forming the rows / planting hills and incorporate thoroughly into the top 4-10 inches of moist soil. Can be applied up to 21 days prior to potato / sweet potato transplant.
	Drench at transplanting	Apply 6 – 9 pounds of MeloCon® WG per acre. Disperse product entirely in a supply tank and add it to transplant water. Apply with at least 30 gallons transplant water per acre.
<b>Turf*</b>	Established turf, every 2 months	Apply 6.5 ounces (1 1/2 cups) of MeloCon® WG in minimum of 5 gallons of water on 1,000 square feet of turf using conventional ground application equipment; follow immediately (while leaves are still wet from application) by overhead irrigation, drenching the product into the root zone with at least 0.5 inches of water. Alternatively, apply the product through an overhead irrigation system. If irrigation is not available, apply the product suspension prior to or during rainfall. To enhance penetration of spores into the root zone, consider mixing MeloCon® WG with a soil wetting agent.

\* Not for use in California

## INSTRUCTIONS FOR MeloCon® WG APPLICATION THROUGH IRRIGATION SYSTEMS

### Application through Drip (Trickle) or Sprinkler Irrigation:

Apply MeloCon® WG only through sprinkler, including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or handmove, and drip (trickle), including micro-irrigation, systems and either before planting or to the planted crop/use site at the appropriate rates indicated in the previous table. If applied in this manner, irrigate with enough water to saturate the soil to the depth of the root zone. Addition of an approved soil wetting agent at the manufacturer's specified mix rate may enhance penetration of spores to the rooting zone. For information on which adjuvants and pesticides can be mixed with MeloCon® WG without harming the beneficial fungus it contains, contact your Technical Sales Representative or the Manufacturer.

Do not apply MeloCon® WG through any irrigation systems other than those specified above.

Crop injury or lack of effectiveness can result from non-uniform distribution of treated water.

If you have questions about calibration of your irrigation system, 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 pesticide application 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.

### Pesticide Application Using 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.
- Pesticide application 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.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 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.
- 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.
- Apply the entire treatment during the first 1/3 of the total irrigation.
- Mix MeloCon® WG in the supply tank to a concentration appropriate to cover the area to be treated.
- Agitation is required for mixing and maintaining the suspension of the spores of the active agent in the injection solution. Apply all MeloCon® WG within 24 hours after mixing with water.

### Pesticide Application Using Drip (Trickle) Irrigation:

- 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.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 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.
- 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.
- Apply the entire treatment during the first 1/3 of the total irrigation.
- Mix MeloCon® WG in the supply tank to a concentration appropriate to cover the area to be treated.
- Agitation is required for mixing and maintaining the suspension of the spores of the active agent in the injection solution. Apply all MeloCon® WG within 24 hours after mixing with water.

(continued)

**Pesticide Application Using Sprinkler Irrigation:**

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 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. Apply the entire treatment during the first 1/3 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. Apply all MeloCon® WG within 24 hours after mixing with water.

**Pesticide Application Using Micro-irrigation:**

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 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. Apply only when the irrigation is soil directed, the heights of the nozzles are below the canopy and irrigation water does not come into contact with aboveground harvestable food commodities.
8. Apply the entire treatment during the first 1/3 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. Apply all MeloCon® WG within 24 hours after mixing with water.

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE**

Store in a cool, dry place (at 35 – 40°F or below), out of direct sunlight, and away from heat sources for up to 6 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 HANDLING**

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. Do not burn, unless allowed by state and local ordinances. If burned, stay out of smoke. If outer box is contaminated, dispose of it in the same manner as required for the bag.

**WARRANTY**

Certis USA, L.L.C. warrants that the material contained herein conforms to the description on the label and is reasonably fit for the purpose referred to in the directions for use. Timing and method of application, weather, watering practices, nature of soil, the disease problem, condition of the crop, incompatibility with other influencing factors in the use of this product are beyond the control of the seller. To the extent consistent with applicable law, buyer assumes all risks of use, storage, or handling of this material not in strict accordance with directions given herein. NO OTHER EXPRESS OR IMPLIED WARRANTY OF THE FITNESS OR MERCHANTABILITY IS MADE.

# MeloCon® WG

## Biological Nematicide

For control of plant-parasitic nematodes in the soil



Can be Used for Organic Production



For Organic Use

Net Weight: 20 Pounds  
EPA Reg. No. 264-1175-70051  
EPA Est. No. 000264-DEU-008  
Batch No.

**ACTIVE INGREDIENT:** *Paecilomyces lilacinus* strain 251\* ..... 6.0%  
**OTHER INGREDIENTS:** ..... 94.0%  
**TOTAL:** ..... 100.0%

\*Contains a minimum of  $1 \times 10^{10}$  spores per gram of product

**PRODUCED FOR**  
Certis USA  
9145 Guilford Rd. Suite 175  
Columbia, MD 21046  
Tel: 1-800-250-5024  
Product of Germany



**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

For **MEDICAL** and **TRANSPORTATION** Emergencies **ONLY** Call 24 Hours A Day 1-800-255-3924  
For **PRODUCT USE** Information Call 1-800-250-5024

### FIRST AID

<b>If swallowed:</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>In case of emergency call toll free the Emergency Response Telephone No. 1-800-255-3924. Have a product container or label with you when calling a poison control center or doctor, or going for treatment.</b>	

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS: CAUTION

Harmful if swallowed, 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 dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95. 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 or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-5)], 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 breakdown.

### USER SAFETY RECOMMENDATIONS

<b>Users should:</b>	<ul style="list-style-type: none"><li>• Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.</li><li>• 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.</li></ul>
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#### 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 disposing of equipment wash waters or rinsate.

### STORAGE AND DISPOSAL

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

#### PESTICIDE STORAGE

Store in a cool, dry place (at 35 – 40°F or below), out of direct sunlight, and away from heat sources for up to 6 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 HANDLING

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. Do not burn, unless allowed by state and local ordinances. If burned, stay out of smoke. If outer box is contaminated, dispose of it in the same manner as required for the bag.