

# MYCOSTOP<sup>®</sup> MIX

BIOFUNGICIDE FOR AGRONOMIC, VEGETABLE AND  
ORNAMENTAL CROPS

↑  
OPEN HERE

**Active Ingredients:**

Dried spores and mycelium of ray fungus (*Streptomyces griseoviridis* Strain K61)\*

**Other Ingredients**

\*1 x 10<sup>8</sup> cfu (colony forming units) per 1g of product

	4%
	96%
Total	100%

## KEEP OUT OF REACH OF CHILDREN CAUTION

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans and Domestic Animals

Harmful if inhaled. Avoid breathing dust or spray mist. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Thoroughly wash with soap and water after handling.

#### First Aid

If inhaled, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. 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. If on skin or clothing, take off contaminated clothing. Immediately rinse skin with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

#### Personal Protective Equipment

Applicators and other handlers must wear: Long-sleeved shirt and long pants. Waterproof gloves. Shoes plus socks. Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any approval number prefix N-95, R-95 or P-95 or HE filter.

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.

#### User Safety Recommendations

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

**Remove personal protection equipment immediately after handling this product. If gloves are worn, wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.**

#### Emergency Information

For spill, leak, fire, exposure or accident call CHEMTREC at 1-800-424-9300.

#### Environmental Hazards

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by disposal of equipment wash waters.

#### 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 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: long-sleeved shirt, long pants, shoes and socks and waterproof gloves.

#### 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 and greenhouses. Do not enter treated area without protective clothing until sprays have dried.

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EPA Reg. No. 64137-9  
EPA Est. 64137-FIN-1  
Made in Finland  
01/03

Net contents:  
See backside

Verdera

### Ornamental and Vegetable Uses

Use Mycostop Mix for the control of seed rot, root and stem rot and wilt caused by *Fusarium* and *Alternaria* of ornamentals, vegetables and tree and forest seedlings. Mycostop Mix also suppresses root rots of *Pythium*, *Phytophthora* and *Rhizoctonia* in the greenhouse. Use Mycostop Mix as a seed treatment for seed or soil-borne damping off and early root rot of vegetables, herbs and ornamentals planted in the field or greenhouse.

### DISEASE CONTROL

#### Seed Treatment

- Apply Mycostop Mix as a seed treatment in vegetables, herbs, ornamentals, trees and conifers at the following rates:
  - Lettuce, gerbera and pepper: 0.015-0.03 oz. Mycostop Mix/lb. seed (1-2 g/kg)
  - Ornamentals, Cole crops, leguminous plants, root crops, onions, leeks, dill, parsley, spinach, herbs, tomatoes, trees and conifers: 0.05-0.08 oz. Mycostop Mix/lb. seed (3-5 g/kg)
- Mycostop Mix may be mixed with seed in a planter box. As a planter box treatment, fill box half full of seed, add half the required amount of Mycostop Mix and thoroughly mix with a stick or paddle. Add remainder of seed and Mycostop Mix and thoroughly mix.
- To mix in a small container such as a jar, add the required amount of Mycostop Mix, shake until the seeds are coated, then pour into planter box.
- Do not treat damp or wet seed with Mycostop Mix.
- Do not treat Dusty Miller or cucurbit seeds with Mycostop Mix.

Mycostop Mix is also effective when used as a 0.01% [(5 g/13 gal.)(0.18 oz./13 gal.)(5 g/50 liters)] to 0.1% [(5 g/1.3 gal.)(0.18 oz./1.3 gal.)(5 g/5 liters)] seed soak where soaking seed for 5-15 minutes immediately prior to planting is practical. Because many ornamentals and vegetables have not been tested using a seed soak, first check emergence on a small quantity of seed.

#### Incorporation in Potting Media

Mix Mycostop Mix into potting media at a rate of 1-4 g/cubic yard. Apply Mycostop Mix as an aqueous suspension to the growth media when the media is being mechanically blended or raked in by hand in beds. Use the higher rate for higher disease pressure. It is important that Mycostop Mix be evenly incorporated to assure best performance. Use potting media containing Mycostop Mix within one month after incorporation. Do not store above 85°F. A drench or spray application of Mycostop Mix is recommended within 2-6 weeks as described below under **Soil Spray or Drench Applications**.

#### Transplant Dip or Cutting Dip

Apply Mycostop Mix by dipping roots of transplants or cuttings (including bare root seedlings), such as carnations, in a suspension shortly before planting. A suspension of 0.01% [(5 g/13 gal.)(0.18 oz./13 gal.)(5 g/50 liters)] to 0.1% [(5 g/1.3 gal.)(0.18 oz./1.3 gal.)(5 g/5 liters)] is recommended. Use the higher rate for higher disease pressure.

#### Soil Spray or Drench Applications

Apply Mycostop Mix to bedding plants, foliage plants, flowering plants, trees, conifers, forest seedlings, woody ornamentals, vegetable transplants or vegetables grown for production. Examples of ornamental crops include carnation, gerbera, African violet, cyclamen, geranium, pine and others. Examples of vegetable crops include cabbage, cucumbers, melons, peppers, tomatoes and others.

- **Soil Spray** - Uniformly apply Mycostop Mix at the rate of 0.5-2 g/100 sq. ft. (0.0175-0.07 oz./100 sq. ft.) over the area to be treated. For example, use 0.2-0.5 gal. (1-2 liters) of 0.1% suspension [(5g/1.3 gal.)(0.18 oz./1.3 gal.)(5 g/5 liters)] per 100 sq. ft. Follow with normal irrigation or sufficient water (1/8-1/4 inch) within 6 hours to move Mycostop Mix into the plant root zone.
- **Drench** - Uniformly apply Mycostop Mix at the rate of 0.5-2 g/100 sq. ft. (0.0175-0.07 oz./100 sq. ft.) over the area to be treated. Apply sufficient water during application to move Mycostop Mix into the root zone.
- **Small Seedling Production** - Apply Mycostop Mix at the rate of 2-4 g per 1000 sq. ft. [(0.07-0.14 oz./1000 sq. ft.)(2-4 g/100 sq. meters)] over the area to be treated.

Repeat spray or drench application every 2-6 weeks as needed for disease control. Use the higher rate and more frequent application for higher disease pressure and larger plants.

#### Band or In-Furrow Application

Apply Mycostop Mix at the rate of 0.5-1.0 lb./treated acre (0.5-1.0 kg/treated hectare) shortly before or at the time of planting in 25-50 gals. of water. A 7-inch band is recommended for banded applications. Lightly incorporate into the top 2-3 inches of soil. An in-furrow application of Mycostop Mix may also be made at the same rates. Spray all soil that surrounds and covers the seed.

#### Side-Dress Application

Apply Mycostop Mix at the rate of 0.5-1.0 lb./treated acre (0.5-1.0 kg/hectare) in 25-100 gals. of water as a side-dress application to the plant bed. Direct spray to base of plant and root zone. Repeat treatment every 2-4 weeks or as needed.

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### MIXING INSTRUCTIONS

To make a suspension of Mycostop Mix, thoroughly mix in a small volume of water such as 0.25-1.0 gallon. Before diluting to final volume, agitate this suspension to ensure product's even dispersion. Agitate suspension during use to prevent settling. Do not tank mix Mycostop Mix with any pesticide or concentrated fertilizer.

### POTENTIAL GROWTH ENHANCEMENT/YIELD INCREASE\*

Mycostop Mix promotes the growth and yield of plants, even in healthy crops. For potential growth enhancement use a rate of 1 g/500 sq. ft. (0.035 oz./500 sq. ft.) and repeat monthly during the crop's life. \*Except in California.

### AGRONOMIC USES

Use Mycostop Mix for the control of seed rot, root and stem rot and wilt diseases caused by *Fusarium* in agronomic crops such as cotton, corn (field), soybeans, wheat, sorghum, beans, peas, turf grass, and tree and forest seedlings.

#### Seed Treatment

- Apply Mycostop Mix as a seed treatment at the rate of 2-5 oz./100 lb. of seed (1.2-3.1 g/kg). Apply as a planter box treatment by mixing Mycostop Mix with the seed before planting. For best results, fill planter box half full of seed, add half the required amount of Mycostop Mix and thoroughly mix with a stick or paddle. Add remainder of seed and Mycostop Mix and thoroughly mix.
- Good results can also be obtained by mixing Mycostop Mix with seed in a separate container, then pouring into planter box.

#### Soil Spray Applications Mixing Instructions

To make a suspension of Mycostop Mix, thoroughly mix in a small volume of water such as 0.25-1.0 gallon. Before diluting to final volume, agitate this suspension to ensure product's even dispersion. Agitate suspension during use to prevent settling. Do not tank mix Mycostop Mix with any pesticide or concentrated fertilizer.

#### Band or In-Furrow Application

Apply Mycostop Mix at the rate of 0.5-1.0 lb./treated acre (0.5-1.0 kg/treated hectare) shortly before or at the time of planting in 25-50 gal. of water. A 7-inch band is recommended for banded applications. Lightly incorporate into the top 2-3 inches of soil. An in-furrow application of Mycostop Mix may also be made at the same rates. Spray all soil that surrounds and covers the seed.

### IMPORTANT NOTES

**Drench/Spray Treatment:** If a spray treatment is used, pay attention to the large particle size (up to 0.5 mm) of the product and use screens and nozzles of appropriate size. Rinse the screens and nozzles if needed. Agitate the aqueous suspension before and during use to prevent settling.

**Chemigation:** Do not apply Mycostop Mix through any type of irrigation system.

**Tank Mixes:** Do not tank mix Mycostop Mix with any pesticide or concentrated fertilizer.

**Integrated Disease Control Programs:** Mycostop Mix may be used in integrated disease control programs. However, it may not be tank mixed with any pesticide or concentrated fertilizer. Mycostop Mix may be used the same day, if registered and if not prohibited, with thiophanate methyl, metalaxyl, vinclozolin, fosetyl-AI and propamocarb hydrochloride. Pesticides not compatible with Mycostop Mix have a 4-day interval between applications.

### STORAGE AND DISPOSAL

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

**Storage:** Mycostop Mix consists of living microbes packed in moisture and air proof unit packages. Store in a dry place at room temperature (below 77 °F, 25 °C). After opening the packet, close tightly. See the use before date on the packet. **Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **Container Disposal:** Completely empty bag into application equipment. Then 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.

### NOTICE TO USER

Verdera Oy warrants only that this product conforms to the product description on this label and is reasonably fit for the purposes set forth in the Directions for Use when used in accordance with them. However, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the use, storage or handling of the product contrary to the label instructions, all of which are beyond the control of Verdera Oy. All such risks shall be assumed by the user. In no case shall Verdera Oy be liable for indirect or consequential damages resulting from the use, storage or handling of this product. VERDERA OY MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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