**FIRST AID**

<table>
<thead>
<tr>
<th>If swallowed</th>
<th></th>
</tr>
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<td>Call a poison control center or doctor immediately for treatment advice.</td>
<td></td>
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<tr>
<td>Have person sip a glass of water if able to swallow.</td>
<td></td>
</tr>
<tr>
<td>Do not induce vomiting unless told to do so by the poison control center or doctor.</td>
<td></td>
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<tr>
<td>Do not give anything by mouth to an unconscious person.</td>
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</tr>
</tbody>
</table>

**HOTLINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.

**ACTIVE INGREDIENT:**

*Gliocladium catenulatum Strain J1446* 93%

**OTHER INGREDIENTS:** 7%

**TOTAL:** 100%

*Contains a minimum of 1 X 10⁹ cfu/g.*

**BioSafe Systems**

22 Meadow St. East Hartford, CT 06108
1-888-273-3088 (toll-free)
EPA Registration No. 64137-13-70299
EPA Establishment No. 092957-MI-001

**LALLEMAND**

Net Weight: 0.5 lb. 1 lb. 2.2 lb.
FIRST AID

If swallowed

• Call a poison control center or 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.

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.

KEEP OUT OF REACH OF CHILDREN

CAUTION

ACTIVE INGREDIENT:

Gliocladium catenulatum Strain J1446* 93%

OTHER INGREDIENTS:..............................7%

TOTAL:....................................................100%

*Contains a minimum of 1 X 10^8 cfu/g.
PVent controls seed-borne and soil-borne plant diseases such as damping-off, root and stem rot, and wilt caused by Alternaria, Bipolaris, Botrytis, Cladosporium, Colletotrichum, Fusarium, Didymella, Fusicrust, Monilinia, Mycosphaerella, Penicillium, Phytopythion, Fimocladus, Pircia, Pyrenochaeta, Pythium, Rhizoctonia, Sclerotinia and Verticillium, certain storage diseases caused by Helminthosporium and Rhizoctonia, and foliar diseases like grapevine trunk diseases (several pathogens) as well as diseases caused by Alternaria, Anonranose, Asperagrus, Botrytis, Cladosporium, Didymella, Fusicrust, Monilinia, Mycosphaerella, Penicillium and Sclerotinia on greenhouse or field grown vegetables, herbs, ornamentals, berries, cereals, legumes, pome and stone fruits, nut trees, tree and forest seedlings and turf. PVent also suppresses powdery mildew symptoms on these greenhouse or field grown crops.

Use PVent on following agricultural grown crops in greenhouses or outdoors:

**VEGETABLES**

Fruiting, Leafy, Root Crop and Seed/Pod Vegetables including, but not limited to:
- Artichokes
- Asparagus
- Beans
- Beets
- Broccoli
- Brussels Sprouts
- Cabbage
- Carrots
- Cauliflower
- Celery
- Chicory
- Chinese Cabbage
- Corn

BERRIES including, but not limited to:
- Blueberries
- Cane berries

POME AND STONE FRUITS including, but not limited to:
- Apples
- Apricots
- Cherries

HERBS AND SPICES including but not limited to:
- Aniseed
- Basil
- Caraway
- Chives
- Dill
- Fennel

ORNAMENTS

Flowers, Foliage and Potted, Bedding and Seedling Plants including, but not limited to:
- Achillea
- African Violet
- Ageratum
- Alyssum
- Amaryllis
- Anemone
- Anthurium
- Aster
- Azalea
- Begonias
- Calceolaria
- Calycularia
- Campanula
- Carnation
- Centaurea
- Ceratodium
- Chrysanthemum
- Cineraria
- Coleus
- Cyclamen
- Daffodil
- Dahlia
- Daisy

LEGUMES, CEREALS AND OIL SEED CROPS including, but not limited to:
- Alfalfa
- Barley

NUT TREES including, but not limited to:
- Almonds
- Cashew

PVent also suppresses powdery mildew symptoms on these greenhouse or field grown crops.

**USE INSTRUCTIONS**

Apply PVent by spraying or drenching the growth substrate, as a foliar spray, or incorporated into the growth substrate as an aqueous suspension.

**Tank Mixes**: Do not tank mix PVent with any pesticides or concentrated fertilizers.

**INTEGRESSED PEST CONTROL PROGRAMS**: PVent can be used in integrated pest control programs. Always check the compatibility of PVent with other Biological Fungiicides or chemical pesticides with the local distributor. Do not apply chemical pesticides within 1 to 4 days of PVent application except for propanocarb hydrochloride, triadimefon, deltamethrin, malathion, metalaxyl, pimiphacarb and pyrethrin; these may be applied on the same day as PVent.

**PRODUCT INFORMATION**

PVent controls seed-borne and soil-borne plant diseases such as damping-off, root and stem rot, and wilt caused by Alternaria, Bipolaris, Botrytis, Cladosporium, Colletotrichum, Fusarium, Didymella, Fusicrust, Monilinia, Mycosphaerella, Penicillium, Phytopythion, Fimocladus, Pircia, Pyrenochaeta, Pythium, Rhizoctonia, Sclerotinia and Verticillium, certain storage diseases caused by Helminthosporium.
TREES AND SHRUB SEEDLINGS including, but not limited to:
- Birch
- Juniper
- Spruce
- Forest Trees
- Pine
- Vine Crops
- Fruit Trees
- Shrubs
- Woody
- Oramentals

PrePARING AQUEOUS SUSPENSION OF PVent
To prepare an aqueous suspension of PVent, mix product in a small volume of water such as 1/2 gallon (0.35 oz. of PVent per 1/2 gallon of water). For better results, let the suspension stand 20 minutes. Agitate sufficiently to evenly disperse product before diluting to final volume. Apply the aqueous suspension as a drench or spray or via drip irrigation or incorporation in potting media. Use the aqueous suspension within 1 day of preparation. Examples of mixing ratios of PVent with water are as follows:

<table>
<thead>
<tr>
<th>Concentration of PVent Suspension</th>
<th>Ounces (oz.) of PVent</th>
<th>Gallons of Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.01%</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>0.05%</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>0.1%</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>0.25%</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

INCORPORATION IN POTTING MEDIA
Incorporation of PVent in potting media for vegetables, herbs, ornamentals and tree or forest seedlings grown in greenhouses or indoors. Mix PVent in potting mixture at sowing, potting or transplanting as an aqueous suspension at the rate of 0.54–1.35 oz. of PVent per cubic yard of growth substrate.

When incorporating PVent as an aqueous suspension, mix 0.33 oz. of product per 5 gallons of water (0.05% suspension). Use 8.1–20.4 gallons of 0.05% PVent suspension per cubic yard of growth substrate.

Use the higher rate for higher disease pressure. It is important to evenly incorporate PVent to assure best performance. Store potting media containing PVent below 77°F (25°C) and use within 3 weeks after preparation. Incorporation of PVent may be followed with a drench application within 3–6 weeks or sooner depending on disease pressure and new plant growth.

HYDROPONIC APPLICATIONS
Apply PVent in hydroponic NFT, ebb-and-flow and rockwool applications according to following rates:
- NFT and ebb-and-flow application: 0.09 oz. PVent per 1,000 plants, 0.002 oz./100 sq. ft.
- Rockwool: 0.7–0.9 oz. PVent per 1,000 plants, 0.013–0.016 oz./100 sq. ft.
- Repeated hydroponic applications may be done within 3–6 weeks or sooner depending on disease pressure and new plant growth.

SOIL DRENCH APPLICATIONS
Use a 0.01–0.1% PVent suspension (0.033–0.33 oz. of PVent per 2.5 gallons of water) for soil drench applications. Refer to the above table for mixing ratios.

Seeding Trays or Beds less than 4 inches deep (Recommended Rate per Area):
Drench seedling trays or beds with PVent at the rate of 0.35 oz. of PVent/100 sq. ft. Use a 0.05% PVent suspension at 5–10 gal./100 sq. ft. Use the higher rate for higher crop density or higher disease pressure. For example, use 0.35 oz. of PVent/5 gallons of water/50 sq. ft.

Pots, Plugs or Rockwool Cubes (Recommended Rate per 100 Plants):
Drench crops grown in pots or rockwool cubes with PVent using e.g. a 0.05 % suspension. Dose rate depends upon the root plugball size and disease pressure. Calculate the amount of PVent per plant based on the following recommendation: 0.54–1.35 oz. of PVent per cubic yard of growth substrate (i.e. 0.02–0.05 grams of PVent per liter of growth substrate). Use the higher rate for bigger root volume and higher disease pressure. Refer to the following table for application rates on different pot or root plug sizes:

<table>
<thead>
<tr>
<th>Pot Size (Root Volume)</th>
<th>Ounces of PVent per 1,000 plants (oz. per 1,000 plants)</th>
<th>0.05% PVent Suspension (fl. oz. per 1,000 plants)</th>
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<tr>
<td>0.5 fl. oz. (15 ml)</td>
<td>0.01–0.03</td>
<td>20–51</td>
</tr>
<tr>
<td>2.0 fl. oz. (60 ml)</td>
<td>0.04–0.11</td>
<td>81–203</td>
</tr>
<tr>
<td>4.0 fl. oz. (120 ml)</td>
<td>0.09–0.21</td>
<td>162–406</td>
</tr>
<tr>
<td>10 fl. oz. (295 ml)</td>
<td>0.21–0.52</td>
<td>399–997</td>
</tr>
<tr>
<td>17 fl. oz. (500 ml)</td>
<td>0.35–0.88</td>
<td>676–1,690</td>
</tr>
<tr>
<td>34 fl. oz. (1 L)</td>
<td>0.71–1.76</td>
<td>1,353–3,381</td>
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<tr>
<td>4 pint (1.9 l)</td>
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Timing of Treatments: Apply the first drench treatment at sowing. Repeat treatment at transplanting or potting. Repeated drench applications may be done within 3–6 weeks or sooner depending on disease pressure and new plant growth.

FOLiar SPRay
Spray or spread an aqueous suspension of PVent on plant stems or foliar parts for control of Alternaria, Anthracnose (Colletotrichum) Bipolaris, Botrytis, Cladosporium, Didymella, Fusarium, Monilinia, Mycosphaerella, Penicillium, Sclerotinia or grapevine trunk diseases (several pathogens). Use a water suspension of 0.33 oz. PVent per 5 gallons water (0.05% suspension). Treat plants to the point of run-off using 0.05% PVent suspension.

Use PVent at 0.01–0.016 oz./100 sq. ft. for fogging applications of greenhouse grown crops such as vegetables, berries and ornamentals together with a minimum water volume of 0.005 gallon per 100 sq. ft.

Repeat foliar spray/fogging every 3–6 weeks if necessary, or sooner depending on disease pressure and new plant growth.

Surfactants are not generally needed. A non-ionic surfactant may be used in combination with PVent for crops with waxy/hard-to-wet leaf surfaces.

TREATMENT OF CUTTINGS, BULBS OR TUBERS
Dip rooted cuttings in a suspension of 0.1 oz. PVent in one gallon of water (0.075% suspension) or spray with the suspension after planting. Dip or spray bulbs and tubers with a 0.075% PVent suspension before planting or storage.

PREPARING AN AQUEOUS SUSPENSION OF PVent
To prepare an aqueous suspension of PVent, mix product in a small volume of water such as 1/2 gallon (0.35 oz. of PVent per 1/2 gallon of water). For better results, let the suspension stand 30 minutes. Agitate sufficiently to evenly disperse product before diluting to final volume. Apply the aqueous suspension as a drench or spray or via drip irrigation or incorporation in potting media. Use the aqueous suspension within 1 day of preparation. Examples of mixing ratios of PVent with water are as follows:

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General Requirements -
1. Apply this product only through drip (trickle) irrigation systems. Do not apply this product through any other type of irrigation system.
2. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from use of non-uniform distribution of treated water.
3. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
4. 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.
5. The 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.

Specific Requirements for Chemigation Systems Connected to 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 regularly 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, backflow 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 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 pump.
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 interlock 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.

**Specific Requirements for Drip (Trickle) Chemigation**

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 backflow.
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 filled with a system interlock.

**Application Instructions for All Types of Chemigation**

1. Remove scale, pesticide residues, and other foreign material from the chemical supply tank and entire injector system. Flush with clean water. Failure to provide a clean tank, void of scale or residues may cause product to lose effectiveness or strength.
2. Determine the treatment rates as indicated in the directions for use and make proper dilutions.
3. Prepare a solution in the chemical tank by filling the tank with the required water and then adding product as required. Utilize agitation to keep solution in suspension.

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**STORAGE AND DISPOSAL**

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

**Pesticide Storage:** PVent consists of living microbes that are packed in unit packages. Store unopened packages up to 12 months in a cool (below 41°F or 5°C), dry place and up to 2 weeks at room temperature (maximum 77°F or 25°C). Immediately use the entire package contents after opening.

**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:** Non refillable 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. (For instances where state and local ordinances do allow burning): If burned, stay out of smoke.

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**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of BIOSAFE SYSTEMS LLC or Seller. All such risks shall be assumed by Buyer and User and Buyer and User agree to hold BIOSAFE SYSTEMS and Seller harmless for any claims relating to such factors, to the extent consistent with applicable law.

BIOSAFE SYSTEMS warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above when used in accordance with directions under normal use conditions. To the extent consistent with applicable law, this warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or BIOSAFE SYSTEMS, and Buyer and User assume the risk of any such use TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BIOSAFE SYSTEMS MAKES NO WARRANTIES OF MERCHANTABILITY FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESSED OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent consistent with applicable law, in no event shall BIOSAFE SYSTEMS or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF BIOSAFE SYSTEMS AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF BIOSAFE SYSTEMS OR SELLER, THE REPLACEMENT OF THE PRODUCT.

BIOSAFE SYSTEMS and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of BIOSAFE SYSTEMS.