



**OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION**

WASHINGTON, D.C. 20460

March 25, 2025

Alice Wei  
Senior Regulatory Manager  
Valent U.S.A. LLC  
4600 Norris Canyon Rd  
San Ramon, CA 94583

Subject: Label Amendment – Updating restrictions and warranty information.  
Product Name: V-10161 VPP FUNGICIDE  
EPA Registration Number: 59639-141  
Application Date: 09/10/2024  
Case Number: 634347

Dear Alice Wei:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. The next label printing of this product must use this labeling unless subsequent changes have been approved. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ

from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Laura Rademacher at [Rademacher.Laura@epa.gov](mailto:Rademacher.Laura@epa.gov).

Sincerely,

*Kable Bo Davis*

Kable Bo Davis; Senior Advisor  
Office of Pesticide Programs  
Registration Division; Immediate Office

Enclosure



FLUOPICOLIDE	GROUP	43	FUNGICIDE
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[Bracketed information is optional]  
***Bold italicized information is for the reviewer.***

**ACCEPTED**

**03/25/2025**

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 59639-141

## V-10161 VPP Fungicide

TURFGRASS, ORNAMENTAL AND GREENHOUSE BASIL FUNGICIDE  
FOR CONTROL OF PYTHIUM AND PHYTOPHTHORA DISEASES  
FOR CONTROL OF OOMYCETE DISEASES  
FOR DISEASE CONTROL IN ORNAMENTAL PLANTS  
FOR PYTHIUM CONTROL IN TURFGRASS  
FOR CONTROL OF PYTHIUM, PHYTOPHTHORA AND DOWNY MILDEW IN ORNAMENTAL  
PLANTS  
FOR CONTROL OF DOWNY MILDEW IN GREENHOUSE BASIL

Active Ingredient	By Wt
Fluopicolide* .....	39.5%
Other Ingredients.....	60.5%
Total	100.0%

\*2,6-dichloro-N-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]methyl]benzamide

V-10161 VPP Fungicide is a suspension concentrate containing 4 lb active ingredient per gallon.

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

SEE [NEXT] [PAGE][PANEL] [BOOKLET] FOR [ADDITIONAL PRECAUTIONARY  
STATEMENTS] [AND] [DIRECTIONS FOR USE]

**ALWAYS MIX PRODUCT THOROUGHLY BEFORE USE.**

EPA Reg. No. 59639-141

EPA Est. \_\_\_\_\_

**NET CONTENT** \_\_\_\_

<b>FIRST AID</b>	
<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 further 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 by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<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 the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p style="text-align: center;"><b>HOT LINE NUMBER</b></p> <p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact <b>800-892-0099</b> for emergency medical treatment information.</p>	

## **PRECAUTIONARY STATEMENTS**

### **HAZARDS TO HUMANS & DOMESTIC ANIMALS**

**CAUTION:** Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist.

### **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Applicators and other handlers must wear:** long-sleeved shirt and long pants, socks plus shoes and chemical-resistant gloves made of any waterproof material for example natural rubber ≥ 14 mils.

### **USER SAFETY RECOMMENDATIONS**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- 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**

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water by disposing of equipment washwaters or rinsate.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

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 12 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, chemical-resistant gloves made of any waterproof material for example natural rubber  $\geq 14$  mils, socks and shoes.

### **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, greenhouses or sod farms.

Keep all unprotected persons out of operating areas or vicinity where there may be drift.  
Do not enter treated areas without protective clothing until sprays have dried.

**RISKS OF USING THIS PRODUCT,  
LIMITED WARRANTY AND DISCLAIMER,  
AND LIMITATION OF LIABILITY**

**IMPORTANT:** Read the entire Label including this section titled Risks of Using this Product, Limited Warranty and Disclaimer, and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT; rather, return the unopened product within 15 days of purchase for a refund of the purchase price.

**RISKS OF USING THIS PRODUCT**

The buyer and user (referred to collectively herein as "Buyer") of this product should be aware that there are inherent unintended risks associated with the use of this product which are impossible to eliminate. Such risks of crop injury, non-performance, resistance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, disease, moisture conditions, irrigation practices, condition of the crop at the time of application, presence of other materials either applied in the tank mix with this product or prior to application of this product, cultural practices or the manner of use or application, (or a combination of such factors) all of which are factors beyond the control of Valent. If the Buyer chooses not to accept these risks, THEN THIS PRODUCT SHOULD NOT BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent unintended risks AND TO THE FULLEST EXTENT ALLOWED BY LAW, AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

The Directions for Use of this product must be followed carefully. Valent shall not be responsible for losses or damages (including, but not limited to, loss of yield, increased expenses of farming the crop or such incidental, consequential, or special damages that may be claimed) resulting from use of this product in any manner not set forth on the label. To the extent consistent with applicable law, Buyer assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

**LIMITED WARRANTY AND DISCLAIMER**

Valent warrants only that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label **and subject to the Risks of Using This Product as described above. To the extent consistent with applicable law, VALENT MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED.** No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

**LIMITATION OF LIABILITY**

To the fullest extent allowed by law, Valent or Seller is not liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. **TO THE FULLEST EXTENT ALLOWED BY LAW, THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR 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 THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

**PROMPT NOTICE OF CLAIM**

To the extent consistent with applicable law allowing such requirements, Valent must be provided notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty-one days from date of planting, or twenty-one days from the date of application, whichever is later, so that an immediate inspection of the affected property and growing crops can be made.

To the extent consistent with applicable law, if Buyer does not notify Valent of any claims, in such period, it shall be barred from obtaining any remedy.

**NO AMENDMENTS**

Valent and Seller offer this product, and Buyer accepts it, subject to the foregoing **Risks of Using This Product, Limited Warranty and Disclaimer, and Limitation of Liability**, which may not be modified by any oral or written agreement.

**TANK MIXES**

**NOTICE:** Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor, consistent with applicable law.

Read and follow the entire label of each product to be used in the tank mix with this product.

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## USE INFORMATION

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V-10161 VPP Fungicide is formulated as a 4 lb ai/gallon suspension concentrate (SC). The active ingredient in V-10161 VPP is fluopicolide, which exhibits protective, curative, eradicated and antispore activity. Fluopicolide is locally systemic, translaminar and also moves systemically through xylem tissue.

V-10161 VPP Fungicide may be used for disease control in turfgrass on golf courses, lawns and landscape areas around residential, institutional, public, commercial and industrial buildings, parks, recreational areas, athletic fields and sod farms.

V-10161 VPP Fungicide is most effective when applied in a regularly scheduled spray program and used in combination or rotation with other effective fungicides that have a different mode of action (i.e., non FRAC Group 43 Fungicides).

### PRECAUTIONS

V-10161 VPP Fungicide must be tank mixed for resistance management, with another product that is registered for use against the diseases listed on this label. V-10161 VPP Fungicide must be mixed with products containing one of the following active ingredients or other products registered for use against the target disease:

- chlorothalonil
- mancozeb
- propamocarb
- azoxystrobin
- fosetyl-Al
- mefenoxam
- metalaxyl
- etridiazole

### TANK MIXING

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

### MODE OF ACTION

V-10161 VPP Fungicide is active against oomycetes. It exhibits the typical mode of action of specific systemic fungicides against oomycete fungi affecting several steps in the reproduction cycle.

Biochemical studies have shown that fluopicolide has an effect on spectrin-like proteins, believed to play a role in maintaining the membrane stability in ascomycete fungi or oomycetes, especially during hyphal tip extension. Microscopy studies demonstrate that fluopicolide induces a quick redistribution of these proteins from the membrane to the cytoplasm in both hyphae and zoospores.



### Resistance Management

For resistance management, V-10161 VPP Fungicide contains a Group 43 fungicide. Any fungal population may contain individuals naturally resistant to V-10161 VPP and other Group 43 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay fungicide resistance, take one or more of the following steps:

- Rotate the use of V-10161 VPP Fungicide or other Group 43 fungicides within a growing season sequence with different groups that control the same pathogens.
- Avoid application of more than the maximum number of the applications listed in the directions for use for the specific crop and follow label instructions regarding sequential applications of V-10161 VPP Fungicide or other fungicides in the same group in a season.
- Use tank mixtures with fungicide from a different group that are equally effective on the target pest when such use is permitted. Use at least the minimum application rate as labeled by the manufacturer.
- Adopt an integrated disease management program for fungicide use that includes scouting, uses historical information related to pesticide use, and crop rotation, and which considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide applications. Note that using predictive models alone is not sufficient to manage resistance.
- Monitor treated fungal populations for resistance development.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information or to report suspected resistance contact Valent U.S.A. LLC at 800-89-VALENT (898-2536). You can also contact your pesticide distributor or university extension specialist to report resistance.

## **RAINFASTNESS**

Foliar sprays are rainfast 2 hours after application. Do not apply for foliar disease control if measurable rain is expected within 2 hours of application or foliar disease control may be reduced.

## **JAR TEST TO DETERMINE COMPATIBILITY OF ADJUVANTS AND V-10161 VPP FUNGICIDE**

Perform a jar test before mixing commercial quantities of V-10161 VPP Fungicide, when using V-10161 VPP Fungicide for the first time, or when a new water source is being used.

1. Add 1 pt of water to a quart jar. Use water from the same source and temperature as which will be used in the spray tank mixing operation.
2. Add 2.5 ml (1/2 tsp) of V-10161 VPP Fungicide to the quart jar, gently mix until product goes into suspension.
3. Place cap on jar, invert 10 times, let stand for 15 minutes, evaluate.
4. An ideal tank mix combination will be uniform and free of suspended particles. If any of the following conditions are observed the choice of adjuvant should be questioned:
  - a) Layer of oil or globules on the mixture's surface.
  - b) Flocculation: fine particles in suspension or as a layer on the bottom of the jar.
  - c) Clabbering: thickening texture (coagulated) like gelatin.

## **SPRAYER PREPARATION**

Before applying V-10161 VPP Fungicide, start with clean, well maintained application equipment. The spray tank, hoses and booms must be cleaned to ensure no residue from the previous spraying operation remains in the sprayer. The spray equipment must be cleaned according to the manufacturer's directions for the last product used before the equipment is used to apply V-10161 VPP Fungicide. If two or more products were tank mixed prior to V-10161 VPP Fungicide application, the most restrictive cleanup procedure should be followed.

## **MIXING INSTRUCTIONS**

1. Fill clean spray tank 1/2 to 2/3 of desired level with clean water.
2. While agitating, slowly add the V-10161 VPP Fungicide to the spray tank. Agitation will create a rippling or rolling action on the water surface.
3. When tank mixing V-10161 VPP Fungicide with other labeled pesticides, add water soluble packets first, followed by dry formulations, flowables, emulsifiable concentrates and then solutions.
4. Add any required adjuvants.
5. Fill spray tank to desired level with water. Continue agitation until all spray solution has been applied.

## **SPRAYER CLEANUP**

Spray equipment must be cleaned following application of V-10161 VPP Fungicide. After V-10161 VPP Fungicide is applied, the following steps must be used to clean the spray equipment:

1. Completely drain the spray tank, rinse the sprayer thoroughly, including the inside and outside of the tank and all in-line screens.
2. Fill the spray tank with clean water and flush all hoses, booms, screens and nozzles.
3. Drain tank completely.
4. Remove all nozzles and screens and rinse them in clean water.
5. The rinsate solution may be applied to the turf and ornamentals as recommended on this label. Do not exceed the maximum labeled use rate. If cleaners are used, consult the cleaner label for disposal instructions. If no instructions are given, dispose of rinsate at an approved waste disposal facility.

## APPLICATION EQUIPMENT

Application equipment must be clean and in good repair. Check nozzles frequently for accuracy.

## CARRIER VOLUME

Apply V-10161 VPP Fungicide in sufficient water to ensure thorough coverage of foliage and bloom. Thorough coverage is required for optimal disease control. For ground application to turfgrass, apply a minimum of 20 gallons of spray mixture per acre. Follow individual use site "Directions for Use" for appropriate spray volumes.

### SPRAY DRIFT MANAGEMENT

#### Ground Boom Applications

- Apply with the nozzle height specified by the manufacturer, but no more than 3 feet above the ground or crop canopy. For all other ground applications, the nozzle must be no more than 3 feet from the target vegetation.
- Applicators are required to use a medium or coarser droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

## SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.

BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

## IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

### Controlling Droplet Size – Ground Boom

- Volume – Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure – Use the lowest spray pressure specified for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle – Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

## BOOM HEIGHT – Ground Boom

For ground equipment, the boom should remain level with the crop and have minimal bounce.

## SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

## TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

## TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

## **WIND**

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

### **Boomless Ground Applications**

- Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

### **Handheld Technology Applications**

- Take precautions to minimize spray drift.

***Note to EPA Reviewer: This label and product will be marketed/used with two versions:***

***Version #1. When marketed/used without chemigation for all crops the following restriction will be printed on the label, and the entire “Chemigation” section will not be present:***

[Do not apply this product through any type of irrigation system.]

***Version #2. When marketed with chemigation for all crops the entire “Chemigation” section will be present on the label but the restriction statement above will not be present.***

### **[CHEMIGATION (SPRINKLER IRRIGATION)]**

V-10161 VPP Fungicide may be applied through sprinkler irrigation systems. Follow all label recommendations regarding rates, timing of application, special instructions and precautions.

For chemigation to turfgrass sites, apply this product only through center pivot, solid set, hand move or moving wheel irrigation systems. Apply V-10161 VPP Fungicide in 1/2 to 3/4 inches of water during the first sprinkler set.

For chemigation to ornamental sites apply this product only through microirrigation (individual spaghetti tube), drip irrigation, overhead irrigation or motorized calibrated irrigation equipment.

The system must be properly calibrated (with water only) to ensure that the amount of V-10161 VPP Fungicide applied corresponds to the recommended rate.

Apply V-10161 VPP Fungicide in 1/2 to 3/4 inches of water during the first sprinkler set. Allow time for all lines to flush the fungicide through all nozzles before turning off irrigation water. To ensure the lines are flushed and free of remaining fungicide, a dye indicator may be injected into the lines to mark the end of the application period.

If you have any questions about calibration, contact your State Extension Service Specialist, equipment manufacturer or other experts.

### **Special Precautions for Chemigation**

1. 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.
2. 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.
3. The system must be free of leaks and clogged nozzles.
4. The pesticide must be supplied continuously for the duration of the aqueous application. An uneven application may cause injury to the crop or poor control.
5. Agitation must be maintained in the nurse tank.
6. The sprinkler chemigation 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.
7. The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.
8. 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.
9. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in the case where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
10. 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.
11. 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 the pesticides and capable of being fitted with a system interlock.
12. Do not apply when wind speed favors drift beyond the area intended for treatment.

### **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 a 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 the public water system must contain a functional, reduced pressure zone (RPZ), backflow preventer 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 outlet end of the fill pipe and the top overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
3. All chemigation systems connected to the public water system must also follow restrictions listed in the preceding section titled "Special Precautions for Chemigation".]

## TURFGRASS

V-10161 VPP Fungicide prevents and controls damping off, root rot and stem diseases caused by pythium blight infesting turfgrass. Pythium blight is sometimes referred to as greasy spot or cottony blight and is in a group of fungi known as water molds. This disease is common in turfgrass areas with poor soil drainage and a wet turfgrass canopy. High humidity and high temperatures provide an ideal environment for development of pythium blight. Pythium blight occurs in all cool season grasses, but is especially prevalent in creeping bentgrass, annual bluegrass and perennial ryegrass.

[Not for use on turfgrass in Hawaii.]

**Table 1. DIRECTIONS FOR USE ON TURFGRASS**

<b>Turfgrass</b>	<b>Diseases</b>	<b>Application Rate</b>	<b>Special Instructions</b>
<b>Established and Overseeded Turfgrass</b>  Golf Course Turf Recreational Turf (lawns and landscape areas, around athletic fields and parks) Residential Turf Commercial Turf (lawns and landscape areas, around commercial, institutional, public and industrial buildings) Sod Farms	Pythium Blight Pythium Damping-Off	0.2 fl oz per 1000 sq ft  (8.7 fl oz/A) (0.27 lb ai/A)	Do not apply more than a total of 0.4 fl oz per 1000 sq ft per year (0.54 lb ai/A per year).  Apply in a minimum volume of 2 gallons spray mixture per 1000 sq ft.  V-10161 VPP Fungicide must be tank mixed with a labeled rate of another fungicide active against the target pathogen, but with a different mode of action.  <b>Overseeded Turf:</b> Apply soon after seed germination to prevent pythium damping-off.  <b>Established Turf:</b> Apply when conditions favor disease development. Favorable conditions include high temperatures and high humidity.  If necessary, make an additional application after 14 days.

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## ORNAMENTAL PLANTS

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V-10161 VPP Fungicide prevents water mold, root rot, stem rot, crown rot and damping off caused by oomycete diseases in ornamental plants. V-10161 VPP Fungicide is mixed with water and applied as a soil drench at the time of seeding or transplanting.

V-10161 VPP Fungicide may be used on container, bench, or bed grown ornamentals in greenhouses, lathhouses, shadehouses or outdoor nurseries, on conifers including Christmas trees and on ornamentals grown in outdoor landscapes.

### **IMPORTANT**

The large number of existing ornamental species and their varieties and cultivars coupled with the constant introduction of new varieties makes it impossible to field test V-10161 VPP Fungicide in every locale where it is sold or in all of the combinations of location and plant varieties. Further differences include the soil or media type; pH; moisture or fertility; environmental conditions such as temperature, lighting or degree days; horticultural practice; the manner of use and application of this product. To ensure that V-10161 VPP Fungicide is compatible with the ornamental plant variety or cultivar under your specific conditions, test on a limited scale and observe for phytotoxicity or other unintended effects for two weeks before making large scale applications.

V-10161 VPP Fungicide has been evaluated on the plant species listed in Table 2, and may be applied as directed to these species. If a desired plant species is not listed, evaluate the safety of V-10161 VPP Fungicide on a small number of plants under commercial growing conditions and monitor plant response for four to six weeks for phytotoxicity. Testing V-10161 VPP Fungicide on a small number of plants will determine if it can be used safely on a widespread basis. V-10161 VPP Fungicide has provided control of pathogens referenced in Table 2 and listed in Table 3.

[Not for use on ornamental plants in Hawaii.]

**Table 2. ORNAMENTAL CROPS AND PATHOGEN(S) CONTROLLED**

<b>Crops</b>	<b>Pathogen(s) Controlled</b>
Alder	<i>Phytophthora cinnamoni</i>
Apple, Non-bearing	<i>Phytophthora</i> spp. <i>Phytophthora syringae</i>
Azalea	<i>Phytophthora cinnamoni</i> <i>Phytophthora nicotianae</i>
Camellia	<i>Phytophthora ramorum</i>
Coleus	Downy mildew ( <i>Bremia</i> , <i>Hyaloperonospora</i> , <i>Peronospora</i> , <i>Plasmopara</i> , <i>Pseudoperonospora</i> )
Crabapple	<i>Phytophthora</i> spp. <i>Phytophthora syringae</i>
Daisy, Transvaal	<i>Phytophthora cryptogea</i>
English Ivy	<i>Phytophthora palmivora</i> <i>Phytophthora tropicalis</i>
Fir, Grand	<i>Phytophthora ramorum</i>
Fir, Noble	<i>Phytophthora ramorum</i>
Gardenia	<i>Phytophthora</i> spp.
Geranium	<i>Pythium aphanidermatum</i> <i>Pythium irregulare</i>
Lavender, English	<i>Phytophthora</i> , spp.
Lilyturf, Big Blue	<i>Phytophthora palmivora</i>
Marigold	<i>Phytophthora ramorum</i> <i>Phytophthora</i> , spp.
Pansy	<i>Phytophthora nicotianae</i>
Periwinkle	<i>Phytophthora nicotianae</i>
Pothos	<i>Phytophthora tropicalis</i>
Rhododendron	<i>Phytophthora cactorum</i> <i>Phytophthora cinnamoni</i> <i>Phytophthora nicotianae</i> <i>Phytophthora ramorum</i> <i>Phytophthora nicotianae</i> <i>Pythium aphanidermatum</i>
Spathe Flower	<i>Phytophthora nicotianae</i> <i>Phytophthora parasitica</i>
Squash, Ornamental	<i>Phytophthora capsici</i>



**Table 3. DIRECTIONS FOR USE ON ORNAMENTAL PLANTS**

Ornamentals	Diseases	Product Rates	Special Instructions														
Bedding Plants Christmas Trees Conifers Flowering Plants Foliage Plants Ground Covers Non-Bearing Fruit Trees Non-Bearing Nut Trees Ornamentals Ornamental Trees Shrubs Vines	Downy Mildew Phytophthora Pythium Blight Pythium Damping-off	1 to 4 fl oz per 100 gallons (2.2 to 4.4 fl oz/A) 0.14 to 0.27 lb ai/A)	<p>Apply before disease development. Use the higher rate when treating plants with a high potential for disease development. If necessary, reapply after 14 to 28 days.</p> <p>For resistance management, V-10161 VPP Fungicide must be tank mixed with a labeled rate of another fungicide active against the target pathogen, but with a different mode of action.</p> <p>Do not apply more than 2 applications of V-10161 VPP Fungicide per year.</p> <p><b>Sequential Application:</b> Do not apply sequentially. Alternate with another fungicide registered for use on ornamentals.</p> <p>Minimum retreatment interval: 14 days</p> <p><b>Foliar Application:</b> Use between 2 to 4 fl oz/100 gallons for foliar applications. 100 gallons of spray solution will treat approximately 20,000 sq ft of area (0.14 to 0.27 lb ai/A per application). Apply the spray solution to all plant surfaces to the point of runoff.</p> <p><b>Drench Application:</b> Use between 1 to 4 fl oz/100 gallons for drench applications. Use enough solution to wet the root zones of plants. Use the information below as a guide for drench application.</p> <p><b>Container grown plants:</b> Apply in volume as listed. For pot sizes other than those listed, adjust volume proportionally.<sup>1</sup></p> <table><tr><th>Pot diameter</th><th>fl oz drench solution per pot</th></tr><tr><td>4</td><td>3</td></tr><tr><td>5</td><td>4</td></tr><tr><td>6</td><td>6</td></tr><tr><td>8</td><td>10</td></tr><tr><td>10</td><td>20</td></tr><tr><td>12</td><td>30</td></tr></table> <p><b>Plants grown in flats or beds:</b> Apply at a volume of 1 to 2 pints of solution per square foot of soil surface (5 to 10 quarts of solution per 10 sq ft).<sup>1</sup></p>	Pot diameter	fl oz drench solution per pot	4	3	5	4	6	6	8	10	10	20	12	30
Pot diameter	fl oz drench solution per pot																
4	3																
5	4																
6	6																
8	10																
10	20																
12	30																
<sup>1</sup> Do not exceed maximum per acre application rate as indicated below.			continued														

**Table 3. DIRECTIONS FOR USE ON ORNAMENTAL PLANTS** (continued)

<b>Restrictions</b>										
<ul style="list-style-type: none"> <li>• For hand harvesting, thinning, pruning and pinching of cut flowers, a 12 hour reentry interval following the last application of V-10161 VPP Fungicide must be observed.</li> <li>• Do not apply more than a total of 8.7 fl oz (0.27 lb ai) of V-10161 VPP Fungicide per acre per application and 17.4 fl oz (0.54 lb ai) of V-10161 VPP Fungicide per acre per year.</li> <li>• Do not apply within 1 year of fruit harvest.</li> <li>• Do not apply within 1 year of nut harvest.</li> <li>• Do not graze or feed cover crops in treated orchards.</li> <li>• Do not apply to poinsettias.</li> </ul>										
<p>NOTE: Since ornamental varieties are numerous, constantly changing and may react differently to V-10161 VPP Fungicide and tank mixtures including V-10161 VPP Fungicide, test on a small number of plants before making large scale applications.</p>										

**Table 4. RATE CONVERSION CHART**

Amount of V-10161 VPP Fungicide (fl oz) per 100 gallons	Amount of V-10161 VPP Fungicide to add to water to achieve desired volume (fl oz) of spray or drench solution									
	1 gallon		5 gallons		10 gallons		25 gallons		50 gallons	
	fl oz	mL	fl oz	mL	fl oz	mL	fl oz	mL	fl oz	mL
1	0.01	0.3	0.05	1.5	0.1	3	0.25	7.5	0.5	15
2	0.02	0.6	0.1	3	0.2	6	0.5	15	1	30
4	0.04	1.2	0.2	6	0.4	12	1	30	2	60

For example, if the use rate is 2 fl oz of V-10161 VPP Fungicide per 100 gallons, and the desired volume of finished solution is 25 gallons, mix 0.5 fl oz of V-10161 VPP Fungicide in 25 gallons of water.

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**GREENHOUSE BASIL**

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**Table 5. DIRECTIONS FOR USE ON GREENHOUSE BASIL**

<b>Crops</b>	<b>Disease</b>	<b>Product Rates</b>	<b>Special Instructions</b>
Greenhouse Basil[*]	Downy Mildew ( <i>Peronospora belbahrii</i> )	4 fl oz/A (0.125 lb ai/A)	<p>Minimum time from last application to harvest (PHI): 1 day</p> <p>For resistance management, V-10161 VPP Fungicide must be tank mixed with a labeled rate of another fungicide active against the target pathogen, but with a different mode of action.</p> <p>Make foliar applications on a 7- to 14-day schedule beginning when conditions are favorable, but prior to disease development.</p>
<b>Restrictions</b> <ul style="list-style-type: none"> <li>Do not apply more than 4 fl oz (0.125 lb ai) of V-10161 VPP Fungicide per acre per application.</li> <li>Do not apply more than 12 fl oz (0.375 lb ai) of V-10161 VPP Fungicide per acre per year.</li> </ul>			

[\*Do not use in California.]

## **STORAGE AND DISPOSAL**

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

### **STORAGE**

Store in a cool dry place.

Keep pesticide in original container.

Keep container closed when not in use.

Do not put concentrate or dilute into food or drink containers.

Do not store at temperature below 32°F. If the product is exposed to temperatures below 32°F, thaw at 50°F or higher and shake gently to unify the product.

For help with any spill, leak, fire or exposure involving this material, call day or night 1-800-892-0099.

### **PESTICIDE DISPOSAL**

Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

### **CONTAINER HANDLING**

Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.

### **RECYCLING**

Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact the Ag Container Recycling Council (ACRC) at 877-952-2272 (toll free) or [www.acrecycle.org](http://www.acrecycle.org).

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