

59639-143

1/28/2008

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7504P)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460

EPA Reg. Number:

59639-143

Date of Issuance:

JAN 28 2008

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration
(under FIFRA, as amended)

Term of Issuance: Conditional

Name of Pesticide Product:

V-10162 VPP Fungicide

Name and Address of Registrant (include ZIP Code):

Valent USA Corporation
1600 Riviera Avenue, Suite 200
P.O. Box 8025
Walnut Creek, CA 94596-8025

Attention: David Wustner

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(C) provided that you:

A. Submit and/or cite all data required for registration of your product under FIFRA Section 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for re-registration of your product under FIFRA Section 4.

B. Submit the following conditional data/information listed below, before January 31, 2009:

1. For the phenyl-¹⁴C-labeled cow metabolism study (MRID 46708514), the petitioner provide complete sample history information for samples from the study, including not only dates of collection, but also dates of storage, radioassay, extraction, and analysis. If sample analyses were not completed within 6 months of sample collection, the data demonstrating that the metabolic profile was stable in the affected matrices during storage must be submitted.

(CONTINUED)

Signature of Approving Official:

Tony Kish
Product Manager, Team 22
Fungicide Branch
Registration Division (7505P)

Date:

JAN 28 2008

2. For the pyridinyl-¹⁴C-labeled cow metabolism study (MRID 46708518):

A. Storage stability data are required to support the study. If samples were stored for greater than 6 months, provide data showing stability of the metabolic profile of the affected matrices for the duration of the storage period and under the conditions that the samples were stored.

B. Clarify that the identification of two peaks in liver methanol/water extract retention times are correct, and explain how the retention times for these metabolites were correlated with the identified metabolites in urine and kidney.

C. Correct the flowchart for fat to include the correct total radioactive residue (TRR) value for this matrix (0.039 ppm).

D. Recalculate the radioactivity levels and/or clarify the results for the HPLC analysis of any extract in which the calculated limit of quantitation (LOQ) was too high to allow meaningful interpretation of the chromatogram.

3. For the hen metabolism study reported in MRID 46708515, provide complete sample history information for samples from the study, including not only dates of collection but also dates of storage, radioassay, extraction, and analysis. If sample analyses were not completed within 6 months of sample collection, provide data demonstrating that the metabolic profile was stable in the affected matrices during the storage period and under the conditions that the samples were stored. Also submit copies of the LC/MS chromatograms of metabolite AE C653711 (BAM) in liver as well as the corresponding chromatogram of the reference standard. These chromatograms were referenced in the submission (MRID 46708515, page 113) but were not included.

4. The hen metabolism study conducted with [2,6-¹⁴C-pyridinyl]fluopicolide (MRID 46708519) is incomplete but upgradeable. The samples from this study were not extracted until >6 months after sample collection. Provide data showing stability of the metabolic profile for the duration of the storage period and under the conditions that the samples were stored.

5. For storage stability data for crops, submit additional storage stability data for celery and spinach reflecting a storage interval of 38 months. One study should be conducted on any representative leafy vegetable.

6. Submit one copy of a final printed label within 45 days from the date of this Notice which makes the following changes:

A. On Page 2, change the dollar signs (\$) and large letter X's (X) used for bullets to another symbol(s).

B. On Page 5 under "Mode of Action", correct or clarify the disharmony between "The biochemical mode of action of fluopicolide is specific", vs just below this section "Both group 43 and 28...for which no specific mode of action is known". Deletion of the first sentence with "specific" or changing "mode of action to "site" may harmonize these contradictions.

(CONTINUED)

C. On page 6, in the rainfastness section downy mildew is mentioned but is not a listed disease so the sentence must be modified to delete it.

D. On page 9, delete "interiorscapes" as that indoor use was not assessed.

E. In the ornamental section, add the following restriction or equivalent, "The reentry interval for hand harvesting, thinning, pruning, and pinching of ornamental flowers is 6 days after the last product application".

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

A copy of the label stamped "Accepted with comments" is enclosed for your records.



4 8 14

GROUP 28 43 FUNGICIDE

V-10162 VPP Fungicide

**Turf and Ornamental Fungicide
For Control of Pythium and Phytophthora Diseases**

Active Ingredient	By Wt.
*Fluopicolide	5.54%
**Propamocarb Hydrochloride	55.40%
Other Ingredients	39.06%
Total	100.00%

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

**propyl[3-(dimethylamino)propyl]carbamate hydrochloride

V-10162 VPP FUNGICIDE is an aqueous flowable fungicide containing 0.52 lb fluopicolide per gallon and 5.2 lbs of propamocarb hydrochloride per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE NEXT PAGE FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

NET CONTENTS _____

**SHAKE WELL BEFORE USING
AGITASE BIEN ANTE USO**

ACCEPTED
with COMMENTS
In EPA Letter Dated
JAN 28 2008
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
59639-143

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Wear long-sleeved shirt and long pants, socks, shoes and gloves. Remove and wash contaminated clothing and wash clothing before reuse.

FIRST AID

- | | |
|--------------------------------|--|
| If on skin or Clothing: | <ul style="list-style-type: none"> \$ Take off contaminated clothing. \$ Rinse skin immediately with plenty of water for 15-20 minutes. \$ Call a poison control center or doctor for further treatment advice |
| If inhaled: | <ul style="list-style-type: none"> \$ 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. \$ Call a poison control center or doctor for further treatment advice. |
| If swallowed: | <ul style="list-style-type: none"> \$ 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. |
| If in eyes: | <ul style="list-style-type: none"> \$ 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. \$ Call a poison control center or doctor for treatment advice. |

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact **1-800-892-0099** for emergency medical treatment information.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear: Long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material such as natural rubber \geq 14 mils, socks and shoes.

USER SAFETY RECOMMENDATIONS

Users should:

- X Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- X Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- X 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 such as natural rubber ≥ 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 sodfarms.

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.

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

IMPORTANT: Read the entire Label including this Disclaimer, Risks of Using this Product, Limited Warranty, 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. These risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance of the target pest or weeds to this product, injury caused by drift, and injury to rotational crops caused by carryover in the soil. 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. The Buyer should be aware that these inherent unintended risks may reduce the harvested yield of the crop in all or a portion of the treated acreage, or otherwise affect the crop such that additional care, treatment and expense are required to take the crop to harvest. 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 EXTENT CONSISTENT WITH APPLICABLE LAW, AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

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. 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

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 AND AS SET FORTH ABOVE, 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 extent consistent with applicable law Valent or Seller is not liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. The limitation includes, but is not limited to, loss of yield on all or any portion of the treated acreage, increased care, treatment or other expenses required to take the crop to harvest, increased finance charges or altered finance ratings, emotional or mental distress and/or exemplary damages. TO THE EXTENT CONSISTENT WITH APPLICABLE 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 Disclaimer, Risks of Using This Product, Limited Warranty 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.

GENERAL INFORMATION

V-10162 VPP fungicide is formulated as 5.7 lbs. ai/gal. suspendable concentrate (SC). The active ingredients in V-10162 VPP are fluopicolide and propamocarb hydrochloride. V-10162 VPP exhibits protective, curative, eradicated and antispore activity. Fluopicolide is locally systemic, translaminar and also moves systemically via xylem tissue.

Optimal disease control is achieved when V-10162 VPP is applied in a regularly scheduled spray program used in combination and/or rotation with other effective fungicides that have different modes of action (i.e., non group 28 & 43 fungicides).

MODE OF ACTION

V-10162 VPP is active against selective oomycetes. It exhibits the typical mode of action of specific systemic fungicides against oomycete fungi affecting several steps in the reproduction cycle.

The biochemical mode of action of fluopicolide is specific. 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.

Propamocarb is believed to effect lipids and membrane synthesis, resulting in altered cell membrane permeability.

RESISTANCE MANAGEMENT

- V-10162 VPP contains fluopicolide and propamocarb which are group 43 & 28 fungicides, respectively. The target site of action of Group 28 & 43 fungicides are specific but the biochemical modes of action are not known. Fungal isolates with acquired resistance to fluopicolide and propamocarb may eventually dominate the fungal population if V-10162 VPP is used repeatedly in the same use site or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by V-10162 VPP. To maintain the performance of V-10162 VPP in the use site, do not exceed two (2) sequential applications of V-10162 VPP or the total maximum application rate of V-10162 VPP per season as stated in Table 1 or 2 "Directions for Use". Adhere to the label instructions regarding the consecutive use of V-10162 VPP. The following recommendations may be considered to delay the development of fungicide resistance:
- **Integrated Pest Management (IPM):** More than two consecutive V-10162 VPP applications must not be made and alternative fungicides from different target site of action groups that are registered for the same use and that are effective against the pathogens of concern should be applied. V-10162 VPP must be integrated into an overall disease and pest management program. Cultural practices known to reduce disease development should be followed. Consult your local extension specialist, certified crop advisor and/or Valent representative for additional IPM strategies established for your area. V-10162 VPP may be used in Agricultural Extension advisory (disease forecasting) programs, which recommend application timing based on environmental factors favorable for disease development.

- **Monitoring:** Monitor efficacy of all fungicides used in the disease management program against the targeted pathogen and record other factors that may influence fungicide performance and/or disease development.
- **Reporting:** If a Group 28 & 43 target site fungicide appears to be less or no longer effective against a pathogen that it previously controlled or suppressed, contact a Valent representative, local extension specialist, or certified crop advisor to assist in determining the cause of reduced performance.

RAINFASTNESS

Conventional foliar spray applications of V-10162 VPP are mainly for downy mildew and other foliar disease control and are rainfast 2 hours after application. Applications for foliar disease control must not be made 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-10162 VPP

A jar test should be performed before mixing commercial quantities of V-10162 VPP, when using V-10162 VPP for the first time, or when a new water source is being used.

1. Add 1 pt of the water plus adjuvant to a quart jar. The water should be 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-10162 VPP 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-10162 VPP, 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-10162 VPP. If two or more products were tank mixed prior to V-10162 VPP 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-10162 VPP to the spray tank. Agitation should create a rippling or rolling action on the water surface.
3. If tank mixing V-10162 VPP 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. Agitation should continue until all spray solution has been applied.

SPRAYER CLEANUP

Spray equipment must be cleaned each day following V-10162 VPP application. After V-10162 VPP 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 turfgrass and ornamentals 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 should be clean and in good repair. Nozzles should be frequently checked for accuracy.

CARRIER VOLUME

Apply V-10162 VPP 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 2 gallons of spray mixture per 1,000 sq ft to assure uniform coverage. Follow individual use site "Directions for Use" for appropriate spray volumes.

CHEMIGATION

V-10162 VPP may be applied through irrigation systems. Follow all label recommendations for these crops regarding rates, timing of application, special instructions and precautions.

The chemigation to turfgrass sites, apply this product only through center pivot, solid set, hand move or moving wheel irrigation systems. Apply V-10162 VPP 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-10162 VPP applied corresponds to the recommended rate.

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, you should contact your State Extension Service Specialist, equipment manufacturers 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-10162 VPP is effective at preventing and controlling 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.

TABLE 1. DIRECTIONS FOR USE ON TURFGRASS

Turfgrass	Diseases	Application Rate	Special Instructions
Established and Overseeded Turfgrass: Commercial Turf Golf Course Turf Residential Turf Sod Farms	Pythium Blight Pythium Damping Off	1.2 fl oz per 1000 sq ft (52 fl oz/A)	The maximum V-10162 VPP application rate is 2.4 fl oz per 1000 sq ft per year (104 fl oz/A per year). Apply in a minimum volume of 2 gals per 1000 sq ft. Overseeded Turf: Apply after seed germination to prevent pythium damping off Established Turf: Apply when conditions favor disease development. Favorable conditions included high temperatures and high humidity. If necessary, make an additional application on a 14 day interval.

ORNAMENTAL PLANTS

V-10162 VPP is effective at preventing water mold, root rot, stem rot, crown rot and damping off caused by pythium and phytophthora diseases in ornamental plants. V-10162 VPP is mixed with water and applied as a soil drench at the time of seeding or transplanting. V-10162 VPP may be used on container, bench, or bed-grown ornamentals in greenhouses or outdoor nurseries, interiorscapes, conifers including Christmas trees and for use on ornamentals grown for outdoor landscaping.

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-10162 VPP in every locale where it is sold or in all of the combinations of location and plant variety. Further differences include the soil or media type, pH, moisture or fertility, environmental conditions such as temperature, lighting or degree-days and horticultural practice and the manner of use and application of this product. To ensure that V-10162 VPP is compatible with the ornamental plant variety or cultivar under your specific conditions, test this product on a limited scale and observe for phytotoxicity or other unintended effects for two weeks before making large scale applications.

TABLE 2. DIRECTIONS FOR USE ON ORNAMENTAL PLANTS

Ornamentals	Diseases	Application Rate	Special Instructions														
Bedding Plants Conifers Flowering Plants Foliage Plants Ground Covers Ornamentals Ornamental Trees Non-Bearing Fruit Nut Trees Shrubs Vines	Pythium Blight Phytophthora	24 to 48 fl oz per 100 gals	<p>Applications should be made prior to disease development. Use the higher rate with high potential for disease development. Make applications as necessary, but no more than once every 14 days.</p> <p>Do not apply more than two (2) applications of V-10162 VPP per cropping cycle.</p> <p>Sequential Application: Do not apply sequentially, alternate with another fungicide registered for use on ornamental plants.</p> <p>Foliar Application: For foliar sprays, 100 gallons of spray mix will treat approximately 20,000 sq ft of area. Apply the spray mixture to all plant surfaces and to the point of runoff.</p> <p>Drench Applications: Use enough solution to wet the root zones of plants. Use the information below as a guide for drench applications</p> <p>Container grown plants: Apply in volume as listed. For pot sizes other than those listed, adjust volume accordingly.</p> <table><tr><th>Pot Diameter</th><th>Fluid Ounces 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>Plants grown in flats or beds: Apply at a volume of 1 to 2 pints per square foot (5 to 10 qts per 10 sq ft).</p>	Pot Diameter	Fluid Ounces per Pot	4	3	5	4	6	6	8	10	10	20	12	30
Pot Diameter	Fluid Ounces per Pot																
4	3																
5	4																
6	6																
8	10																
10	20																
12	30																
NOTE: Since ornamental varieties are numerous, constantly changing, and may react differently to V-10162 VPP and tank mixtures including V-10162 VPP, test the product(s) on a small scale before making large scale applications.																	

RATE CONVERSION CHART

Rate of V-10162 VPP per 100 gals (fl oz)	Amount of V-10162 VPP to add to water to achieve desired volume (fl oz)									
	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
24	0.25	7.4	1.2	35	2.4	71	6	177	12	355
36	0.36	10.6	1.8	53	3.6	106	9	266	18	532
48	0.5	15	2.4	71	4.8	142	12	355	24	710

STORAGE AND DISPOSAL

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

PESTICIDE 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.

Not for use or storage in or around the home.

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 DISPOSAL

Triple rinse (or equivalent). Do not reuse container. Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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Manufactured for:

Valent U.S.A. Corporation

P.O. Box 8025

Walnut Creek, CA 94596-8025

www.valentpro.com

Made in U.S.A.

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EPA Est. No. _____