



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

March 24, 2022

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

Subject: Registration Review Label Mitigation for Fluopicolide and Propamocarb  
Hydrochloride  
Product Name: V-10162 Premix Fungicide  
EPA Registration Number: 59639-142  
Application Dates: 2/14/22; 2/8/2019  
Decision Numbers: 581954; 581953

Dear Ms. Alice Wei:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Fluopicolide and Propamocarb Hydrochloride Interim Decisions, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

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 the Federal Insecticide Fungicide and Rodenticide Act 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) list 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.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. 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 12 months from the date of this letter. After 12 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.

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If you have any questions about this letter, please contact Darius Stanton by phone at 202-566-2332, or via email at [stanton.darius@epa.gov](mailto:stanton.darius@epa.gov).

Sincerely,

A handwritten signature in blue ink, appearing to be "Linda Arrington", with a stylized flourish at the end.

Linda Arrington, Branch Chief  
Risk Management and Implementation Branch 4  
Pesticide Re-Evaluation Division  
Office of Pesticide Programs

Enclosure



FLUOPICOLIDE	GROUP	43	FUNGICIDE
PROPAMOCARB HYDROCHLORIDE	GROUP	28	FUNGICIDE

## V-10162 Premix Fungicide

FOR CONTROL AND/OR SUPPRESSION OF CERTAIN DISEASES IN CUCURBIT  
VEGETABLES, FRUITING VEGETABLES, LETTUCE (HEAD AND LEAF) AND POTATO

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 Premix Fungicide is an aqueous flowable fungicide containing 0.52 lb fluopicolide and 5.2 lb of propamocarb hydrochloride per gallon.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**SEE NEXT PAGE [PANEL] [BOOKLET] FOR ADDITIONAL PRECAUTIONARY STATEMENTS.**

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

**ALWAYS MIX PRODUCT THOROUGHLY BEFORE USE.**

**EPA Reg. No. 59639-142**  
**EPA Est.**

**ACCEPTED**

Mar 24, 2022

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 59639-142

<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 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 800-892-0099 for emergency medical treatment information.</p>	

## **PRECAUTIONARY STATEMENTS**

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

#### **CAUTION**

Harmful if absorbed through skin. Harmful if inhaled or swallowed. 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, using tobacco or using the toilet.

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

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

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### **ENGINEERING CONTROLS STATEMENT**

Pilots must use an enclosed cab that meets the definition listed in the Worker Protection Standard for agricultural pesticides [40 CFR 170.305].

### **USER SAFETY RECOMMENDATIONS**

Users should:

- 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 (WPS), 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 (REI). The requirements in this box only apply to uses of this product that are covered by the WPS.

Do not enter or allow worker entry into treated areas during the REI of 12 hours.

PPE required for early entry to treated areas that is permitted under the WPS 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.

**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.

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## PRODUCT INFORMATION

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

V-10162 Premix Fungicide is most effective when 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).

### RESTRICTION

- Do not use in greenhouses.

### MODE OF ACTION

V-10162 Premix Fungicide 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.

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**

For resistance management, please note that V-10162 Premix Fungicide contains both Group 28/propamocarb and Group 43/fluopicolide fungicides. Any fungal population may contain individuals naturally resistant to V-10162 Premix Fungicide and other Group 28 or 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-10162 Premix Fungicide or other Group 28 or 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 applications listed in the directions for use and follow label instructions regarding sequential applications of V-10162 Premix Fungicide or other fungicides in the same groups in a season.
- Use tank mixtures with fungicides 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 800-6-VALENT (682-5368). You can also contact your pesticide distributor or university extension specialist to report resistance.

### **RAINFASTNESS**

Foliar sprays 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 Premix Fungicide**

A jar test should be performed before mixing commercial quantities of V-10162 Premix Fungicide, when using V-10162 Premix Fungicide 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 Premix 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.

## **APPLICATION INSTRUCTIONS – Ground and Air, Air and Chemigation:**

### **SPRAYER PREPARATION**

Before applying V-10162 Premix 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-10162 Premix Fungicide. If two or more products were tank mixed prior to V-10162 Premix Fungicide application, the most restrictive cleanup procedure should be followed.

### **MIXING INSTRUCTIONS**

1. Fill clean spray or nurse tank 1/2 to 2/3 of desired level with clean water.
2. While agitating, slowly add the V-10162 Premix Fungicide to the tank. Agitation should create a rippling or rolling action on the water surface.
3. If tank mixing V-10162 Premix 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 tank to desired level with water. Agitation should continue until all spray solution has been used or applied.

### **SPRAYER CLEANUP**

Spray equipment must be cleaned following application of V-10162 Premix Fungicide. After V-10162 Premix 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 crops 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. Nozzles should be frequently checked for accuracy.

### **CARRIER VOLUME**

Apply V-10162 Premix Fungicide in sufficient water to ensure thorough coverage of foliage, bloom and fruit. Thorough coverage is required for optimal disease control. For ground application, apply a minimum of 20 gallons of spray mixture per acre and for aerial application, do not apply less than 5 gallons of spray mixture per acre to assure uniform coverage. Follow individual "CROP SPECIFIC REQUIREMENTS" for appropriate spray volumes.

## AERIAL APPLICATION

### Restriction

Pilots must use an enclosed cab that meets the definition listed in the Worker Protection Standard for agricultural pesticides [40 CFR 170.305].

To minimize drift, apply the largest droplet size consistent with uniform coverage and satisfactory disease control. To obtain satisfactory application and avoid drift, the following directions must be observed:

Do not apply during low-level inversion conditions, when winds are gusty or under other conditions that favor drift. Do not spray when wind velocity is less than 2 mph or more than 10 mph.

- **Carrier Volume and Spray Pressure:** Application at less than 5 gallons per acre may provide inadequate coverage and control. The higher gallonage applications generally afford more consistent disease control. Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Nozzle Selection and Orientation:** Formation of very small drops may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible and by avoiding excessive spray pressure. Use nozzles that produce flat fan or cone spray patterns. Use non-drip type nozzles, such as diaphragm type nozzles, to avoid unwanted discharge of spray solution. The nozzles must be directed toward the rear of the aircraft, producing a spray discharge at an angle between 0 and 15° downward. Do not place nozzles on the outer 25% of the wings or rotors.
- **Adjuvants and Drift Control Additives:** Refer to tank mix partner's label for adjuvant recommendation. Drift control additives may be used although it is better to obtain coarser sprays through appropriate nozzle selection and use wherever possible. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label, and be certain of compatibility with the tank mix and nozzle types being used before selecting any adjuvant types.

### MANDATORY SPRAY DRIFT MANAGEMENT

#### Aerial Application

- Do not release spray at a height greater than 10 feet above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators are required to use a coarse or coarser droplet size (ASABE S572.1).
- The boom length must not exceed 65% of the wingspan for airplanes or 75% of the rotor blade diameter for helicopters.
- Applicators must use ½ swath displacement upwind at the downwind edge of the field.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

#### 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 recommended 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.

#### **Controlling Droplet Size – Aircraft**

- Adjust Nozzles – Follow nozzle manufacturer's recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

### **BOOM HEIGHT – Ground Boom**

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

### **RELEASE HEIGHT – Aircraft**

Higher release heights increase the potential for spray drift.

### **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.

## **CHEMIGATION**

V-10162 Premix Fungicide may be applied through sprinkler irrigation systems mainly for soil borne infections. Follow all label requirements regarding application rates, timing of application, special instructions and precautions.

For chemigation applications apply this product only through a center pivot or solid set irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of efficacy or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

The system must be properly calibrated (with water only) to ensure that the amount of V-10162 Premix Fungicide applied corresponds to the required rate on this label for the crop being chemigated.

Apply V-10162 Premix 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 Specialist, equipment manufacturers or other experts.

### **Special Precautions for Chemigation**

1. Do not connect an irrigation system 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 pesticides being used 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".

### **ROTATIONAL RESTRICTIONS**

The following rotational crops may be planted after applying V-10162 Premix Fungicide at the labeled rate. Planting earlier than the recommended rotational interval is not allowed.

<b>CROPS</b>	<b>ROTATIONAL INTERVAL</b>
Cucurbit Vegetables Fruiting Vegetables Leafy Vegetables Potato	Immediately
All Other Crops	18 months

## CROP SPECIFIC REQUIREMENTS

**When to Apply:** Begin application when crop and/or environmental conditions favor disease development. Make applications on a 10-day interval, depending on disease pressure. Apply as a foliar spray in sufficient water to obtain thorough control or by chemigation. Conventional spray applications are recommended when the primary disease is downy mildew or other foliar diseases.

### Restrictions

- The maximum *V-10162* Premix Fungicide application rate is 22 fl oz (0.089 lb ai/A fluopicolide, 0.894 lb ai/A propamocarb hydrochloride) per acre per application and 88 fl oz (0.358 lb ai/A fluopicolide, 3.58 lb ai/A propamocarb hydrochloride) per acre per year.
- Apply no more than 2 sequential applications of *V-10162* Premix Fungicide before alternating with an effective fungicide from a different resistance management group.
- Do not make more than 4 applications of *V-10162* Premix Fungicide per acre per year.
- Do not apply more than 0.357 lb ai/A fluopicolide per year.

### Cucurbit Vegetables

Acorn Squash; Balsam Apple; Balsam Pear; Bittermelon; Butternut Squash; Calabaza; Cantaloupe; Chayote, Fruit; Chinese Cucumber; Chinese Okra; Chinese Preserving Melon; Chinese Waxgourd; Citron Melon; Cucumber; Cucuzza; Gherkin; Gourd, Edible; Hechima; Hubbard Squash; Hyotan; *Momordica* spp.; Muskmelon; Pumpkin; Spaghetti Squash; Summer Squash; Watermelon; Winter Squash

Diseases	Application Rates		Minimum Time from Last Application to Harvest (PHI)	Specific Use Instructions
	fl oz/A	GPA Spray Mixture		
Downy Mildew ( <i>Pseudoperonospora cubensis</i> )  Phytophthora ( <i>Phytophthora cactorum</i> )  Phytophthora Blight ( <i>Phytophthora capsici</i> )	22 (0.089 lb ai/A fluopicolide, 0.894 lb ai/A propamocarb hydrochloride)	Ground: 20 to 50  Aerial Minimum: 5	2 days	Recommended spray interval: 10 day

## CROP SPECIFIC REQUIREMENTS

**When to Apply:** Begin application when crop and/or environmental conditions favor disease development. Make applications on a 7 day interval, depending on disease pressure. Apply as a foliar spray in sufficient water to obtain thorough control or by chemigation.

### Restrictions

- The maximum V-10162 Premix Fungicide application rate is 22 fl oz (0.089 lb ai/A fluopicolide, 0.894 lb ai/A propamocarb hydrochloride) per acre per application and 88 fl oz (0.358 lb ai/A fluopicolide, 3.58 lb ai/A propamocarb hydrochloride) per acre per year.
- Apply no more than 2 sequential applications of V-10162 Premix Fungicide before alternating with an effective fungicide from a different resistance management group.
- Do not make more than 4 applications of V-10162 Premix Fungicide per acre per year.
- Do not apply more than 0.357 lb ai/A fluopicolide per year.

### Fruiting Vegetables

Bell Pepper; Chili Pepper; Cooking Pepper; Eggplant; Groundcherry (*Physalis* spp.); Pepino; Pimento, Sweet Pepper; Tomatillo; Tomato

Diseases	Application Rates		Minimum Time from Last Application to Harvest (PHI)	Specific Use Instructions
	fl oz/A	GPA Spray Mixture		
Phytophthora Blight ( <i>Phytophthora capsici</i> )  Late Blight ( <i>Phytophthora infestans</i> )  Phytophthora ( <i>Phytophthora parasitica</i> )	22 (0.089 lb ai/A fluopicolide, 0.894 lb ai/A propamocarb hydrochloride)	Ground: 20 to 50  Aerial Minimum: 5	5 days	Recommended spray interval: 7 days



## CROP SPECIFIC REQUIREMENTS

**When to Apply:** Begin application when crop and/or environmental conditions favor disease development. Make applications on a 10 day interval, depending on disease pressure. Apply as a foliar spray in sufficient water to obtain thorough control. Chemigation is not recommended for downy mildew control. Under severe disease pressure use the higher labeled rate.

### Restrictions

- The maximum V-10162 Premix Fungicide application rate is 28 fl oz (0.114 lb ai/A fluopicolide, 1.14 lb ai/A propamocarb hydrochloride) per acre per application and 88 fl oz (0.358 lb ai/A fluopicolide, 3.58 lb ai/A propamocarb hydrochloride) per acre per year.
- Apply no more than 2 sequential applications of V-10162 Premix Fungicide before alternating with an effective fungicide from a different resistance management group.
- Do not make more than 4 applications of V-10162 Premix Fungicide per acre per year.
- Do not apply more than 0.357 lb ai/A fluopicolide per year.

### Lettuce, Head; Lettuce, Leaf and Potato

Diseases	Application Rates		Minimum Time from Last Application to Harvest (PHI)	Specific Use Instructions
	fl oz/A	GPA Spray Mixture		
Downy Mildew ( <i>Bremia lactucae</i> )	22 to 28 (0.089 to 0.114 lb ai/A fluopicolide, 0.894 to 1.14 lb ai/A propamocarb hydrochloride)	Ground: 20 to 50  Aerial Minimum: 5	2 days	Recommended spray interval: 10 days
Late Blight ( <i>Phytophthora infestans</i> )	22 to 28 (0.089 to 0.114 lb ai/A fluopicolide, 0.894 to 1.14 lb ai/A propamocarb hydrochloride)	Ground: 20 to 50  Aerial Minimum: 5	7 days	Recommended spray interval: 10 days

## **STORAGE AND DISPOSAL**

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

### **STORAGE**

Keep pesticide in original container.

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

Store in a cool dry place.

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

Do not store or transport near feed or food.

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 800-892-0099.

### **PESTICIDE DISPOSAL**

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

### **CONTAINER HANDLING**

Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. 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.

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Manufactured for:

Valent U.S.A. LLC

P.O. Box 8025

Walnut Creek, CA 94596-8025

Made in U.S.A.

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