



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
WASHINGTON, DC 20460

OFFICE OF  
CHEMICAL SAFETY AND  
POLLUTION PREVENTION

APR 20 2011

Robert Hamilton  
Valent USA Corporation  
Registration & Regulatory Affairs  
1101 14<sup>th</sup> Street, N.W., Suite 1050  
Washington, DC 20005

SUBJECT: Label Amendment  
V-10162 Premix  
EPA Reg. No. 59639-142 (Decision 409901)

Dear Mr. Hamilton:

The revised master label (your version 4/30/2009) referred to above, submitted in connection with registration under the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as amended, to add a foliar use on potatoes, as supported by data and per final rule published April 20, 2011, is acceptable provided the following label changes and conditional data are satisfied by specified due dates:

1. At the top of page 1 vs the rest of the label it is not clear what the Primary Brand Name is for this product. The word "(Fungicide)" is on page 1 and seems to be part of the name but the rest of this label uses the product name without "(Fungicide)". For consistency use the identical name on page 1 and throughout the label.
2. On page 3 in the Agricultural Use Requirements box, first line; add "(WPS)" after "Worker Protection Standard".
3. On page 3 in the Agricultural Use Requirements box, 6<sup>th</sup> line, add "(REI)" after "restricted-entry interval".
4. On page 3, in the Agricultural Use Requirements box; second paragraph, delete "restricted-entry interval" and the left and right parentheses on "(REI)".
5. On page 11, for Cucurbits the 22 fl oz/A value corresponds to 0.98 lb ai/A, not the 1.0 lb ai/A. Either change the fl oz or lb ai to match each other. Also for "integrated pest management" the first letters must be upper case. Also change "88 fl oz per acre per season" to what it was on last stamped label of "84 fl oz per acre per season".
6. Starting on page 11 and continuing for each table heading "GPA", change this heading to "GPA spray mixture" or equivalent, or add a sentence in the text clarifying that this is not GPA of product, but GPA of product and carrier.
7. On page 12 make the same changes as per items 5 and 6 above.

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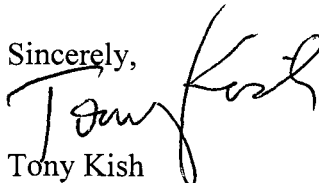
8. On page 13 make the changes as per items 5 and 6 above and in addition note that we calculate 28 fl oz equals 1.25 lb ai total vs the 1.27 lb ai on label which must change.
9. To allow the current 18 month PBI to remain on the label while limited rotational crop data is submitted to establish a more appropriate label PBI, limited field trials at two sites per crop as described in Guideline 860.1900 Field Accumulation in Rotational Crops must be conducted on the following crops and submitted by April 25, 2013 (with a copy of this letter):
  - Small Grain – the registrant proposed conducting a limited field rotational crop study in wheat. EPA concurs that a study must be conducted in a small grain. Data from the wheat rotational crop study can be translated to other small grains (oats, barley, etc.).
  - Soybean - the registrant proposed to conduct a limited rotational crop study in soybeans. EPA concurs that a limited field rotation study in soybeans must be conducted and that this data may be translated to other legumes.
  - Corn – the registrant proposed submitting data reflecting a 30-day PBI in corn and to establish tolerances for inadvertent residues in corn if required. HED has no objection to submission of data on corn to support a 30-day PBI, however if the registrant decides not to pursue a 30-day PBI in corn, a limited field rotational study for corn will be required to determine the appropriate PBI which is  $\leq 12$  months.
  - Rice – a limited field rotational study for rice is required. Alternately, in lieu of generating data, the registrant may chose to prohibit rotation to rice on the label.
  - Oilseed – a limited field rotational study in a representative oilseed is required. The registrant may conduct the study in rape (canola varieties only), sunflower, or cotton.

The registrant is advised that if the limited field studies indicate that quantifiable residues will occur at 12 months a PBI greater than 12 months will not be permitted. Instead, tolerances for inadvertent residues will be required and the requirement for number and location of trials would be the same as that to establish primary tolerances.

Submit one copy of the final printed Master label with a copy of this letter before release the product for shipment. Enclosed please find one copy of each label stamped "Accepted With Comments".

If you have any questions regarding this correspondence, contact Rose Kearns of my staff by phone at 703-305-5611 or via email at [kearns.rosemary@epa.gov](mailto:kearns.rosemary@epa.gov) or myself at 703-308-9443 or via email at [kish.tony@epa.gov](mailto:kish.tony@epa.gov).

Sincerely,



Tony Kish  
Product Manager (22)  
Fungicide Branch  
Registration Division (7504P)

Enclosure; Master Label stamped "Accepted With Comments"



GROUP	28	43	FUNGICIDE
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# 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 .....	100.0%

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

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

KEEP OUT OF REACH OF CHILDREN

## CAUTION

SEE NEXT PAGE FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

NET CONTENT \_\_\_\_

SHAKE WELL BEFORE USING  
AGITASE BIEN ANTE USO

ACCEPTED  
with COMMENTS  
In EPA Letter Dated  
APR 20 2011

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
596392192

## 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 before reuse.

#### FIRST AID

- |                                |  |
|--------------------------------|--|
| <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>  |

#### 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 **800-892-0099** for emergency medical treatment information.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some of the 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:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing 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 such as 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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## GENERAL INFORMATION

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

V-10162 Premix 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).

### GENERAL RESTRICTIONS AND LIMITATIONS

- Do not use in greenhouses.
- Do not apply this product when weather conditions favor spray drift from treated areas.
- When applying by air, observe drift management restrictions and precautions listed under "AERIAL APPLICATION". Best control is achieved through ground application.
- Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator is responsible for considering all of these factors when making decisions. Where states have more stringent regulations, they must be observed.

### MODE OF ACTION

V-10162 Premix 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.

The active ingredients in V-10162 Premix, fluopicolide and propamocarb, belong to the 43 & 28 groups of fungicides as classified by target site of action by the U.S. EPA and Canada PMRA. Both Group 43 & 28 comprise structurally related sets of fungicide compounds for which no specific, biochemical mode of action is known. V-10162 Premix exhibits no known cross-resistance to other fungicide chemistries in Group 43 & 28 or to fungicides in other groups.

### RESISTANCE MANAGEMENT

V-10162 Premix contains fluopicolide and propamocarb which are group 43 & 28 fungicides, respectively. The target sites of action of group 43 & 28 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 Premix is used repeatedly and not rotated with fungicides of a different mode of action. Repeated use may result in partial or total loss of control of these pathogens by V-10162 Premix. To maintain the performance of V-10162 Premix, do not exceed the labeled number of sequential or seasonal applications in the "CROP SPECIFIC REQUIREMENTS". Adhere to the label instructions regarding the consecutive use of V-10162 Premix. The following recommendations may be considered to delay the development of fungicide resistance:

- **Integrated Pest Management (IPM):** V-10162 Premix must be integrated into a multi-faceted 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 Premix 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 effective 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**

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**

A jar test should be performed before mixing commercial quantities of V-10162 Premix, when using V-10162 Premix 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 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 – General Ground & Air, Air and Chemigation:**

##### **SPRAYER PREPARATION**

Before applying V-10162 Premix, 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. If two or more products were tank mixed prior to V-10162 Premix 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 to the tank. Agitation should create a rippling or rolling action on the water surface.
3. If tank mixing V-10162 Premix 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. After V-10162 Premix 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 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

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 gals. 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.

## CHEMIGATION

V-10162 Premix 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 applied corresponds to the required rate on this label for the crop being chemigated.

Apply V-10162 Premix 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 at the labeled rate. Planting earlier than the recommended rotational interval is not allowed.

CROPS	ROTATIONAL INTERVAL
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.

**Resistance Management:** V-10162 Premix must be used as part of an integrated pest management (IPM) program.

### Restrictions and Limitations

- The maximum V-10162 Premix application rate is 22 fl oz per acre per application and 88 fl oz per acre per season.
- Apply no more than 2 sequential applications of V-10162 Premix before alternating with an effective fungicide from a different resistance management group.
- Do not make more than 4 applications of V-10162 Premix per acre per season.

Crops	Diseases	Application Rates		Minimum Time from Last Application to Harvest (PHI)	Specific Use Instructions
		fl oz/A	GPA		
<b>Cucurbit Vegetables:</b> 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; <i>Momordica</i> spp.; Muskmelon; Pumpkin; Spaghetti Squash; Summer Squash; Watermelon; Winter Squash	Downy Mildew ( <i>Pseudoperonospora cubensi</i> )  Phytophthora ( <i>Phytophthora cactorum</i> )  Phytophthora Blight ( <i>Phytophthora capsici</i> )	22 (1.0 lb ai/A)	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.

**Resistance Management:** V-10162 Premix must be used as part of an integrated pest management (IPM) program.

### Restrictions and Limitations

- The maximum V-10162 Premix application rate is 22 fl oz per acre per application and 88 fl oz per acre per season.
- Apply no more than 2 sequential applications of V-10162 Premix before alternating with an effective fungicide from a different resistance management group.
- Do not make more than 4 applications of V-10162 Premix per acre per season.

Crops	Diseases	Application Rates		Minimum Time from Last Application to Harvest (PHI)	Specific Use Instructions
		fl oz/A	GPA		
<b>Fruiting Vegetables:</b> Bell Pepper; Chili Pepper; Cooking Pepper; Eggplant; Groundcherry ( <i>Physalis</i> spp.); Pepino; Pimento; Sweet Pepper; Tomatillo; Tomato	Phytophthora Blight ( <i>Phytophthora capsici</i> )  Late Blight ( <i>Phytophthora infestans</i> )  Phytophthora ( <i>Phytophthora parasitica</i> )	22 (1.0lb ai/A)	Ground: 20 to 50  Aerial Minimum: 5	5 days	Recommended spray interval: 7 days

continued

## 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.

**Resistance Management:** V-10162 Premix must be used as part of an integrated pest management (IPM) program.

### Restrictions and Limitations

- The maximum V-10162 Premix application rate is 28 fl oz per acre per application and 88 fl oz per acre per season.
- Apply no more than 2 sequential applications of V-10162 Premix before alternating with an effective fungicide from a different resistance management group.
- Do not make more than 4 applications of V-10162 Premix per acre per season.

Crops	Diseases	Application Rates		Minimum Time from Last Application to Harvest (PHI)	Specific Use Instructions
		fl oz/A	GPA		
Lettuce, Head and Leaf	Downy Mildew ( <i>Bremia lactucae</i> )	22 to 28 (1.0 to 1.27 lb ai/A)	Ground: 20 to 50  Aerial Minimum: 5	2 days	Recommended spray interval: 10 days
Potato	Late Blight ( <i>Phytophthora infestans</i> )	22 to 28 (1.0 to 1.27 lb ai/A)	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.

### PESTICIDE 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 DISPOSAL

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:

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