UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460



OFFICE OF CHEMICAL SAFETY

November 28, 2014

Tim McPherson (S300/420) E. I. du Pont de Nemours & Company 1007 Market Street Wilminton, DE 19898

Subject:

Label Amendment – Add use prohibition in two NY counties; add oxidizing text

Product Name: DuPont Verimark Insect Control

EPA Registration Number: 352-860

Application Date: 10/20/2014, revised 10/31/2014

Decision Number: 496769

Dear Mr. McPherson:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable.

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 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Tom Harris by phone at (703) 308-9423, or via email at harris.thomas@epa.gov.

Sincerely,

Mark Suarez, Product Manager 07 Invertebrate- & Vertebrate Branch 3 Registration Division (7505P)

Office of Pesticide Programs

Enclosure



DuPont™ Verimark™

INSECT CONTROL WITH THE ACTIVE INGREDIENT CYAZYPYR®

GROUP

28

INSECTICIDE

For soil applications to brassica, cucurbit, fruiting, leafy, and tuberous and corm vegetables and citrus trees for pest management of sucking and chewing insects, suppression of certain insect vectored diseases and optimization of the crop's potential.

Active Ingredient		By Weight
Cyantraniliprole 3-bromo-1-(3-chloro-2-pyridinyl)-N-[4-cyano-2 carboxamide	2-methyl-6-[(methylamino)carbonyl]phenyl]-1H	-pyrazole-5- 18.66%
Other Ingredients		81.34%
TOTAL		100.0%
VERIMARK™ is a suspension concentrate. SH	AKE WELL BEFORE USING.	
Contains 1.67 lb, active ingredient per gallon.		
EPA Reg. No. 352-860		EPA Est. No.
Nonrefillable Container	ACCEDMED	
Net:	ACCEPTED	
OR	Nov 28, 2014	
Refillable Container	1407 20, 2014	
Net:	Under the Federal Insecticide, Fungicide	
E. I. du Pont de Nemours and Company	and Rodenlicide Act as amended, for the pesticide registered under	
1007 Market Street	EPA Reg. No. 352-860	
Wilmington, Delaware 19898	352-860	
Phone: 1-800-441-7515 (Toll Free)		

Not for sale, sale into, distribution and/or use in Nassau and Suffolk counties of New York State.

KEEP OUT OF REACH OF CHILDREN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID

For questions regarding emergency medical treatment, you may contact 1-800-441-3637 for information.

PRECAUTIONARY STATEMENTS

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

Long-sleeved shirt and long pants.

Shoes plus socks.

After the product has been diluted in accordance with label directions for use, shirt, pants, socks, and shoes are sufficient Personal Protective Equipment. Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables are available, use detergent and hot water. Keep and wash PPE separately from other laundry.

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.

PHYSICAL OR CHEMICAL HAZARDS

Do not place product near or allow product to come into contact with strong oxidizing substances (such as potassium permanganate) since a hazardous chemical reaction may occur.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates and oysters. Do not apply directly to water. Drift and runoff may be hazardous to aquatic organisms in water adjacent to use sites. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are foraging the treatment area.

Surface Water Advisory-

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several weeks after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of cyantraniliprole from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

Ground Water Advisory-

This chemical has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

DIRECTIONS FOR USE

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

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 State or Tribal agency responsible for pesticide regulation.

RESTRICTIONS

- Do not make ground applications within 25' of lakes, rivers, reservoirs, permanent streams, marshes, natural ponds, estuaries or coastal areas. Do not cultivate within 25' of these aquatic areas to allow growth of a vegetative filter strip.
- Do not treat plants being grown for transplanting in nurseries, plant propagation houses or greenhouses by commercial transplant producers except as specified in the application section of this label.
- Do not use on crops grown to harvest in greenhouses.
- Do not make any aerial or airblast applications with DuPont™ VERIMARK™. VERIMARK™ is only to be applied to the soil by ground or drip chemigation application equipment.
- May be used on crops on this label grown for seed production.
- · Do not use in residential areas.
- Do not apply VERIMARK™ insect control through any irrigation system unless specified in the crop section of this label or in supplemental labeling.
- Unless otherwise stated for a specific crop, do not apply a total of more than 0.4 lb ai/A of CYAZYPYR® or cyantraniliprole containing products per year. This is the total from all application methods (eg. seed, soil, foliar).

AGRICULTURAL USE REQUIREMENTS

VERIMARK™ must be used 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 the label about personal protective equipment, restricted-entry interval, and notification to workers (as applicable).

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours. Exception: if the product is soil-injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

For early entry into 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, wear:

- · Coveralls
- Shoes plus socks
- Chemical resistant gloves (made of any waterproof material)

VERIMARK™ must be used in accordance with the directions for use on this label, in separately issued labeling or exemptions under FIFRA (Supplemental Labels, Special Local Need Registrations, FIFRA Section 18 exemptions, FIFRA 2(ee) Bulletins), or as otherwise permitted by FIFRA. Always read the entire label, including the Limitation of Warranty and Liability.

VERIMARKTM is a suspension concentrate that can be applied as: an in-furrow spray at planting, transplant tray drench by growers or commercial transplant producers no earlier than 72 hours prior to planting in the field, transplant water treatment,

hill drench at planting, surface band at planting, soil shank injection at planting or other soil injection systems after planting, drip chemigation, including microsprinkler in citrus, or a potato seed piece treatment to control listed insects. DuPont™ VERIMARK™ is specially formulated to optimize effectiveness following application to soil. VERIMARK™ is mixed with water for application.

VERIMARK™ is a member of the anthranilic diamide class of insecticides with a novel mode of action acting on insect ryanodine receptors. VERIMARK™ is most effective through ingestion of treated plant material. After exposure to VERIMARK™, affected insects will rapidly stop feeding, become paralyzed, and typically die within 1 - 3 days. Time drip applications to the most susceptible insect pest stage, typically at egg hatch and/or newly hatched larvae or nymphs, before populations reach damaging levels. When pest populations are high, use the highest listed application rate for that pest. For best results when targeting control of sucking pests, begin drip applications when insect populations first appear. VERIMARK™ has preventative activity, but low curative activity for sucking pests.

INTEGRATED PEST MANAGEMENT

DuPont supports the use of Integrated Pest Management (IPM) programs to control pests. This product may be used as part of an IPM program, which can include biological, cultural, and genetic practices, aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, rotation of insecticides with different modes-of-action, and treating when target pest populations reach locally determined action thresholds. For best results on sucking pests, apply at specified rates when insects first appear. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop or site systems in your area.

SCOUTING

For drip applications, monitor insect populations to determine whether or not there is a need for application of VERIMARKTM based on locally determined pest management guidelines. More than one drip chemigation treatment of VERIMARKTM may be required to control a population of pests.

INSECT RESISTANCE MANAGEMENT

For resistance management, VERIMARKTM is a Group 28 Insecticide. Repeated and exclusive use of VERIMARKTM (cyantraniliprole) or other Group 28 insecticide belonging to the anthranilic diamide class of chemistry may lead to the buildup of resistant strains of insects in some crops when applications are made by drip chemigation.

Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, this product may be used as part of a resistance management strategy established for the use area. These strategies may include incorporation of cultural and biological control practices, alternation of mode-of-action classes of insecticides on succeeding generations and the most susceptible life stage. Consult your local or state agricultural authorities for details.

Unless directed otherwise in the specific crop/pest sections of this label, the best practices are to follow these instructions to delay the development of insecticide resistance:

- Avoid using the same mode of action (same IRAC group number) on consecutive generations of insect pests.
- Make no more than 2 applications of VERIMARK™ (cyantraniliprole) or other Group 28 products per generation to the same insect species on a crop.
- Application to the next generation of target pest(s) must be with an effective product with a different mode of action (non-Group 28 insecticide).
- Make no more than 2 successive applications within a 30-day period to the same insect species on a crop. The following application to the target pest(s) must be with an effective product with a different mode of action.
- Avoid using less than the labeled rates of VERIMARK $^{\text{TM}}$ when applied alone or in tank mixtures.
- Target the most susceptible insect life stages, whenever possible.
- Monitor insect populations for product effectiveness. If resistance to VERIMARK™ develops in your area, VERIMARK™ or other products with a similar mode of action, may not provide adequate control.
- If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local DuPont Crop Protection company representative or agricultural advisor for the best alternative method of control.

For additional information on insect resistance monitoring, visit the Insecticide Resistance Action Committee (IRAC) on the web at http://www.irac-online.org.

APPLICATION

For drip applications and soil injection after planting, apply at the specified rates before insect populations reach locally determined action thresholds. For best results with sucking pests, begin applications when insects first appear. Consult the cooperative extension service, professional consultants or other qualified authorities for local pest management guidelines in your area.

Apply follow-up treatments of VERIMARK™, or DuPont™ EXIREL™ insect control as specified, to keep pest populations within threshold limits. Refer to the Resistance Management section of this label for further guidance on follow-up treatments.

See individual crop sections of this label for specific minimum spray intervals.

Use sufficient water to obtain thorough distribution of DuPont™ VERIMARK™ in the root zone.

VERIMARK™ may be applied by: ground (including an in-furrow spray at planting, transplant tray drench by growers or commercial transplant producers no earlier than 72 hours prior to planting in the field, transplant water treatment, hill drench at planting, surface band at planting, soil shank injection at planting or other soil injection systems after planting, drip or microsprinkler chemigation or as a seed piece treatment). Not all application methods are allowed on all crops; see specific crop sections of this label or other supplemental labeling for application methods which may be used.

SOIL APPLICATIONS

VERIMARK™ must be applied in a manner that ensures the product solution adequately saturates the root zone. VERIMARK™ is designed to optimize root uptake and care for tender roots and shoots. When applied to the root zone before, during, or soon after sowing or transplanting, VERIMARK™ prevents feeding of early season pests, reducing both direct damage and the transmission of some insect-transmitted diseases. This reduction in plant stress early in the crop cycle results in more vigorous plant growth and gets the crop off to a strong start. Manage irrigation so that significant quantities of VERIMARK™ remain in the root zone where it is most effective. Maintaining soil moisture to field capacity or to meet crop needs and environmental conditions aids in product availability to the roots and can improve efficacy. Applications of VERIMARK™ to the root zone allow the active ingredient to be transported from the roots through the xylem providing upward systemicity. VERIMARK™ is translocated to the canopy beginning immediately after the application, reaching a protective concentration in 1 to 3 days for seedlings and up to 7 days for larger plants. As the plant grows, the roots continue to absorb the available VERIMARK™ from the reservoir in the soil providing extended protection of the plant canopy including new growth.

The length of control provided following soil applications will depend on the rate used, the pest being controlled and the environmental conditions; such as soil type, soil moisture, soil pH, etc. Use the higher rates when pests are expected to occur later in the crop growth cycle or when pests are expected to be present continuously. VERIMARK™ will primarily have activity in the foliage of treated plants and will not provide protection within the blooms and fruit. Foliar applications of other products may be needed to protect these parts of the plant.

Unless directed otherwise in the specific crop sections of this label, only one at plant soil application of VERIMARK™ may be made per crop season. A total of two drip chemigation or soil injection applications can be made per season at an application rate not to exceed 10 fl oz of product (0.130 lb ai/A) per application; except in citrus where the maximum rate is 0.391 lb ai/A and at the rates of 0.261 -0.391 only one application can be made per year. If VERIMARK™ is applied as an at plant soil application, only one subsequent drip chemigation application can be made.

In-Furrow Spray at Planting

Apply as a narrow band spray into the furrow at the seeding depth.

Transplant tray drench by growers or commercial transplant producers no earlier than 72 hours prior to planting in the field

This application method is allowed for use by growers or commercial transplant producers no earlier than 72 hours prior to planting in the field. Use only on transplants grown in soil/potting media.

Follow these steps to calculate the amount of VERIMARK™ and water to use:

- 1. Determine the number of plants per acre to be planted.
- 2. Divide the desired VERIMARK™ rate (fl oz/acre) by the number of plants per acre to be planted (this provides the fluid ounces of VERIMARK™ per transplant).
- 3. Multiply the fluid ounces of VERIMARKTM per transplant times the number of plants in each tray to determine the fluid ounces of VERIMARKTM per tray.
- 4. Multiply the fluid ounces of VERIMARKTM per tray times the number of trays to be treated.
- 5. Determine the amount of water needed to thoroughly drench transplant plugs in a transplant tray without runoff through the bottom of the tray (see directions for application below). The amount of water needed may vary by size of the transplant and plug. Multiply the amount of water needed per tray times number of trays to be treated.
- 6. Mix the amount of VERIMARK™ in the volume of water needed to drench the desired number of trays and follow application instructions below. Application should be made with properly calibrated spray equipment with continuous agitation.

Application:

If possible discontinue watering 24 hours before treatment so spray solution is absorbed quickly. Apply as a broadcast low pressure coarse high volume spray so that solution runs off from the foliage to the soil/potting media in the tray, but it does not runoff from the bottom of the tray. If necessary, wash solution from foliage to soil by making a second pass with water only before the spray solution dries. It is critical to drive as much of the spray solution as possible into the soil/potting media to maximize product performance. Make application no longer than 3 days before transplanting in the field. Allow tray to dry before transporting to the field for planting, and do not handle treated trays prior to 4 hours after the application without appropriate personal protection equipment as described in the agricultural use requirements section of this label.

Do not mix any other product when applying DuPont™ VERIMARK™ using this application method unless crop safety has been previously shown with the tank mix.

Transplant water treatment or Hill Drench

Transplants should be adequately watered before transplanting. Apply at transplanting in a minimum of 2 fluid ounces of treatment solution per transplant. Ensure water volume is sufficient to thoroughly wet the root zone.

Surface Band at Planting

Apply as a narrow (2 inches or less) surface band spray above the seed line at planting. Incorporate surface band application within 24 hours of application using sufficient irrigation (usually 0.5 - 1.0 inches of water) to reach the seeding depth.

Soil Shank Injection

Use soil shank injection at planting. Applications must be incorporated using sufficient irrigation (usually 0.5 - 1.0 inches of water) to reach the root zone. Shank injection should be placed in the seed row or just below the seed line and within 1 - 2 inches of the seed line.

For insecticide resistance management it is important to avoid consecutive applications of insecticides with the same mode of action on successive generations of the same pest. See crops on label for treatment rates and additional use information.

APPLICATION SOLUTION PREPARATION

Application equipment must be clean and free of previous pesticide deposits before applying VERIMARKTM. Fill application tank 1/4 to 1/2 full of water. Add VERIMARKTM directly to application tank. Mix thoroughly to fully disperse the insecticide, once dispersed continued agitation is required. Use mechanical or hydraulic means; do not use air agitation. Follow the most restrictive of the labeling limitations and precautions of all products used in mixtures.

Acidification of Application Solution - All applications of VERIMARK™ should be adjusted to approximately pH 4 - 6. For at-plant soil applications, adjust the pH of the application spray tank using a commercially available acidifier. For drip chemigation applications, adjust the pH of the system's pesticide injection tank, supply tank or nurse tank using a commercially available acidifier. The entire drip chemigation system (i.e. the water used in the drip system) does not need to have the pH adjusted. Adjust the pH of the application solution after all products being applied have been added to the tank. Once prepared, an application solution may be held for up to 8 hours before starting the application. Do not store the application solution overnight.

Compatibility - This product can be mixed with pesticide products labeled for use on crops on this label in accordance with the most restrictive of label limitations and precautions. Do not exceed labeled dosage rates. This product cannot be mixed with any product containing a label prohibition against such mixing. Avoid mixtures of several materials and very concentrated spray mixtures.

Tank Mixing - The crop safety of all tank mixtures with VERIMARK™ which may include physically compatible pesticides, fertilizers, adjuvants, and/or additives, has not been tested. When considering the use of a tank mixture on a labeled crop without prior experience, or which is not specifically described on VERIMARK™ product labeling or in other DuPont product use instruction, it is important to first understand crop safety. To test for crop safety prepare a small volume of the intended tank mixture, apply it to an area of the target crop as directed by both this and the tank mix partner product labels, and observe the treated crop to ensure that a phytotoxic response does not occur. DuPont will not be responsible for any crop injury arising from the use of a tank mixture that is not specifically described on VERIMARK™ product labeling or in other DuPont product use instruction.

Tank Mixing Sequence -Add different formulation types in the sequence indicated below*. Allow time for complete mixing and dispersion after addition of each product.

- 1. Water soluble bags (WSB)
- 2. Water soluble granules (SG)
- 3. Water dispersible granules (WG, XP, DF)
- 4. Wettable powders (WP)
- 5. VERIMARK™ and other water based suspension concentrates (aqueous flowables) (SC)
- 6. Water soluble concentrates (SL)
- 7. Suspoemulsions (SE)
- 8. Oil based suspension concentrates (OD)
- 9. Emulsifiable concentrates (EC)
- 10. Surfactants, oils, adjuvants
- 11. Soluble fertilizers
- 12. Drift retardants
- * Unless otherwise specified by manufacturer directions for use or by local experience.

CHEMIGATION

The following types of irrigation equipment may be used for chemigation applications: drip (trickle) or strip tubing irrigation systems. Microsprinkler applications can be made in citrus.

Do not connect any irrigation system used for pesticide applications to a public water system unless the pesticide label-prescribed safety devices are in place. Public water system means a system for the provision to the public of piped water for human consumption, if such system has at least 15 service connections or regularly serves an average of at least 25 individuals at least 60 days out of the year.

See "Required System Safety Devices For All Chemigation Systems" at the end of the Chemigation section.

APPLICATION INSTRUCTIONS

DRIP (TRICKLE) AND MICROSPRINKLER CHEMIGATION

DuPont™ VERIMARK™ must be applied in a manner that ensures the product is in the root zone. VERIMARK™ must be in the root zone to provide effective control of target pests. VERIMARK™ is most effective when it is applied so that the roots are at or near the site of application; manage irrigation so that significant quantities of VERIMARK™ remain in the root zone where it is most effective. Unless directed otherwise in the specific crop sections of this label, a total of two applications can be made per crop season. Any subsequent applications made with products that contain cyantraniliprole must be foliar applications.

- 1. Do not begin applications until after crop emergence in direct seeded crops.
- 2. Do not make applications if soil moisture is below the level required for active plant growth.
- 3. This product must be applied uniformly in the root zone or poor performance may result. Drip tape or emitters must be located within or directly adjacent to the root zone. Microsprinkler spray patterns must include the majority of the tree's root zone.
- 4. The drip and microsprinkler systems must be properly designed, free of leaks, and operated in manner that provides uniform application of water throughout the field or grove.
- 5. In most situations, this product should be applied during the first 1/3 of the irrigation cycle, starting just after the system has come up to pressure.
- 6. The minimum injection period is the time that it takes water to move from the injection point to the furthest emitter in the irrigation zone (propagation time). If this time is not known, it can be calculated by measuring the time for a soluble dye to move from the injection point to the farthest emitter. A longer injection improves uniformity throughout the zone, but needs to allow for at least an equal period of water to flush the system and move the product through the soil.
- 7. VERIMARK™ must not be applied at the same time that a drip irrigation line clean out product is being used as performance may be reduced.

Directions for Chemigation:

Preparation

A pesticide tank is recommended for the application of VERIMARK™ in drip chemigation systems.

Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. With the mix tank 1/4 to 1/2 full with water and the agitator running, measure the required amount of VERIMARKTM and add it to the tank. Then add additional water to bring your total pesticide mixture up to the desired volume for your application. Note: Always add the VERIMARKTM to water, never put VERIMARKTM into a dry tank or other mixing equipment without first adding water. See "Tank Mixing Sequence" section of the container label for tank mixing sequence. Continue to agitate the mixture throughout the application process. Use mechanical or hydraulic agitation, do not use air agitation.

Injection Into Chemigation Systems

Inject the proper amount of VERIMARK™ into the irrigation water flow using a positive displacement injection pump or a Venturi injector. Injection should occur at a point in the main irrigation water flow to ensure thorough mixing with the irrigation water.

Uniform Water Distribution

The irrigation system used for application of VERIMARKTM must provide for uniform distribution of VERIMARKTM treated water. Non-uniform distribution can result in crop injury, lack of effectiveness or illegal pesticide residues in or on the crop being treated. Ensure the drip chemigation system is operating properly to uniformly distribute the chemigation application to the crop. Contact the equipment manufacturer, the local University Extension agent or other experts if you have questions about achieving uniform distribution of the application.

Monitoring of Chemigation Applications

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of a responsible person, shall shut the system down and make necessary adjustments should the need arise. Wear the personal protective equipment as defined in the PPE section of the label for applicators and other handlers when making adjustments or repairs on the chemigation system when VERIMARKTM is in the irrigation water.

Operation

Start the water pump and let the system achieve the desired pressure before starting the injector. Start the injector. When the application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system.

Cleaning the System

Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. Consult your owner's manual or your local equipment dealer for cleanout procedures for your injection system.

REQUIRED SYSTEM SAFETY DEVICES FOR ALL CHEMIGATION SYSTEMS

- 1. The system must contain a functional check valve, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- 2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6. Systems must use a metering device, such as a positive displacement pump or a Venturi injector, that provides uniform injection of the product, is effectively designed and constructed of materials compatible with the product, and is capable of being fitted with a system interlock.
- 7. Chemigation systems connected to public water systems must contain a functional, reduced- pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

SPRAY TANK CLEANOUT

Prior to application, start with clean, well maintained application equipment. Immediately following application, thoroughly clean all spray equipment to reduce the risk of forming hardened deposits which might become difficult to remove.

Drain application equipment. Thoroughly rinse and flush all application equipment with clean water.

Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

SPRAY DRIFT MANAGEMENT

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator.

IMPORTANCE OF DROPLET SIZE

The most effective drift management strategy is to apply the largest droplets which are consistent with pest control objectives. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly or under unfavorable environmental conditions.

A droplet size classification system describes the range of droplet sizes produced by spray nozzles. The American Society of Agricultural and Biological Engineers (ASABE) provide a Standard that describes droplet size spectrum categories defined by a number of reference nozzles (fine, coarse, etc.). Droplet spectra resulting from the use of a specific nozzle may also be described in terms of volume mean diameter (VMD). Coarser droplet size spectra have larger VMD's and lower drift potential.

CONTROLLING DROPLET SIZE - GROUND APPLICATION

- Nozzle Type Select a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. The use of low-drift nozzles will reduce drift potential.
- Pressure The lowest spray pressures recommended for the nozzle produce the largest droplets. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, using a higher-capacity nozzle instead of increasing pressure results in the coarsest droplet spectrum.
- Flow Rate/Orifice Size Using the highest flow rate nozzles (largest orifice) that are consistent with pest control objectives reduces the potential for spray drift. Nozzles with higher rated flows produce coarser droplet spectra.

BOOM LENGTH AND APPLICATION HEIGHT

• Application Height (ground) - Applications made at the lowest height consistent with pest control objectives, and that allow the applicator to keep the boom level with the application site and minimize bounce, will reduce the exposure of spray droplets to evaporation and wind, and reduce spray drift potential.

WIND

Drift potential is lowest when applications are made in light to gentle sustained winds (2-10 mph), which are blowing in a constant direction. Many factors, including droplet size and equipment type also determine drift potential at any given wind speed. AVOID GUSTY OR WINDLESS CONDITIONS.

Local terrain can also influence wind patterns. Every applicator is expected to be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

Setting up equipment to produce larger droplets to compensate for droplet evaporation can reduce spray drift potential. Droplet evaporation is most severe when conditions are both hot and dry.

SURFACE TEMPERATURE INVERSIONS

Drift potential is high during a surface temperature inversion. Surface inversions restrict vertical air mixing, which may cause small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Surface inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Mist or fog may indicate the presence of an inversion in humid areas.

Inversions may also be identified by producing smoke and observing its behavior. Smoke that remains close to the ground, or moves laterally in a concentrated cloud under low wind conditions indicates a surface inversion. Smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are minimizing drift potential, and not interfering with uniform deposition of the product.

SENSITIVE AREAS

Making applications when there is a sustained wind moving away from adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is an effective way to minimize the effect of spray drift.

DRIFT CONTROL ADDITIVES

Using product compatible drift control additives can reduce drift potential. When a drift control additive is used, read and carefully observe cautionary statements and all other information on the additive's label. If using an additive that increases viscosity, ensure that the nozzles and other application equipment will function properly with a viscous spray solution. Preferred drift control additives have been certified by the Council of Producers & Distributors of Agrotechnology.

CROP ROTATION

Crops on this label and the following crops or crop groups may be planted immediately following the last application of DuPont™ VERIMARK™: Brassica Leafy Vegetables (Crop Group 5); Bulb Vegetables (Crop Group 3-07); Bushberries (Berry and Fruit Crop Group subgroup 13-07B); Citrus (Crop Group 10-10); Cotton; Cucurbit Vegetables (Crop Group 9); Fruiting Vegetables (Crop Group 8-10); Leafy Vegetables (except brassicas) (Crop Group 4); Low Growing Berries (Berry and Fruit Crop Group subgroup 13-07G); Oilseeds (Crop Group 20); Pome Fruits (Crop Group 11-10); Stone Fruits (Crop Group 12); Tree Nuts (Crop Group 14-12).

The following crops or crop groups may be planted 30 days following the last application of VERIMARK™: Cereal Grains (Crop Group 15); Foliage of Legume Vegetables (Crop Group 7); Forage, Fodder and Straw of Cereal Grains (Crop Group 16); Grass Forage, Fodder and Hay (Crop Group 17); Legume Vegetables (succulent or dried) (Crop Group 6); Nongrass Animal Feeds (forage, fodder, straw and hay) (Crop Group 18); Peanuts; Leaves of Root and Tuber Vegetables (Crop Group 2); Root Vegetables (Root and Tuber Vegetables Crop Group subgroup 1A); Tuberous and Corm Vegetables (Root and Tuber Vegetables Crop Group subgroup 1C).

All other crops cannot be planted until 12 months after the last application of VERIMARK™.

				¹ VERIMARK™ RATE		
Crop	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	REI (re-entry interval) (hours)
Brassica (Cole) Leafy Vegetables (EPA Crop Group 5)	Soil at Planting (an in-furrow spray, transplant tray drench by growers or commercial transplant producers no earlier than 72 hours prior	Beet armyworm Corn earworm Diamondback moth† Imported cabbageworm Western yellowstriped armyworm	0.065 - 0.130	5 - 10	N/A	. 4
Including Broccoli,	to planting in the field, transplant water	Cabbage looper Cabbage webworm	0.088 - 0.130	6.75 - 10		
Broccoli chinese Broccoli raab, Brussels sprouts,	treatment, hill drench, surface band, soil shank injection)	Cabbage aphid Flea beetle Green peach aphid Leafminers (<i>Liriomyza</i> spp.) Whitefly*	0.088 - 0.176	6.75 - 13.5		
Cabbage, Chinese cabbage		Thrips (foliage feeding only)§ Cabbage maggot	0.130 - 0.176	10 - 13.5	·	
bok choy), Chinese cabbage napa), Chinese nustard abbage, Cauliflower, Cavalo rroccolo, Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard pinach, Kape greens, Curnip greens	different modes of action. * - Allow 1 - 3 days for VI the transplants following a conjunction with an effecti † - Diamondback moth re more than twice to any ger application of VERIMARI a different mode of action next generation of diamon Do not apply less than 5 I control. Do not make more products for control of dia Do not apply more than 13 Do not apply a total of more per crop whether application VERIMARKTM must be ap Surface band application r is moved into the root zone also see the rate conversion Adjusting the pH of the a	as part of an overall effective the CRIMARK TM to be translocated in at-plant application. During that we foliar whitefly control programesistance management - Do not seration of diamondback moth or creation of diamondback moth, rotate (i.e. a product with a different IR black moth must be with an effect oz of VERIMARK TM per applications per cale than 6 total applications per cale mondback moth at the same farm .5 fl oz (0.176 lb ai/A) of VERIMENTALYPY ons are made to the soil or foliarly opplied uniformly in the root zone equires a sufficient amount of was . See the SOIL APPLICATION in chart for application rate per 10 application solution: The pH of the collection of the solution of the solution is the per solution.	nto the aerial portion t time and when popin: apply cyantraniliprol within any 30 day pe e to another effective AC group number). Action per acre for diar endar year of any cyalocation. ARK [™] at planting. R® or cyantraniliproy. To ensure effective con the control of the label for the coloniary of the label for the application solution.	s and to fully protect ulations are high, use in e containing products priod. After the second product with Application(s) to the lifferent mode of action nondback ntraniliprole containing le containing products on the containing products of ensure the treatment or additional guidance, on should be		
Citrus (trees	between pH 4 and 6. (See Soil Drench or Microsprinkler	Acidification of Application Sol- For trees 3 feet tall or less: Asian citrus psyllid	0.196 - 0.391	label.) 15 - 30		
inder five eet tall only), EPA Crop Group 10-10) Australian desert lime:	Chemigation*	Citrus leafminer For trees between 3 feet and 5 feet tall: Asian citrus psyllid Citrus leafminer	0.261 - 0.391	20 30	1 .	4
Australia inger-lime; Australia ound lime; Brown River inger lime; Calamondin; Citron; Citrus hybrids; Grapefruit; apanese nummer grapefruit; Kumquat; Lemon; Lime; Mediterranean nandarin;	per year. Use the lower rate for trees Do not apply a total of mon per year whether application Allow 4-7 days from the ti- portions of the citrus trees. * - Soil drench application evenly around the tree root to move VERIMARK TM in Microsprinkler chemigat minimizing the application apply to trees that have bee system for 5- 10 minutes b Apply sufficient water to d	ade to the soil per year at the 15 it K TM to citrus. At rates greater that under 3 feet tall and the higher re than 0.4 lb ai/A of CYAZYPY one are made to the soil or foliarly me of application for VERIMAR. It is should be made in a minimum zone. Soil drench applications sto the root zone. Wait 24 hours be to the root zone. Wait 24 hours be to areas where the tree roots are an trained to microsprinkler applie fore injecting the VERIMARK into the root CHEMIGATION" section for more	ates for trees 3 to 5 fc. R® or cyantranilipro K™ to fully translocate of 1/2 to 1 pint of wand to the followed by efore initiating the made a majority of the not present. For best cations. Run the irrig into the system to ach zone. Wait 24 hours	eet tall. le containing products ate into the aerial ter per tree distributed sufficient irrigation ext irrigation event. tree's root zone while results,		
Mount white ime; New Guinea wild lime; Drange, sour; Drange, sweet; Pummelo; Russel River ime; Sasuma nandarin; Sweet lime; Fachibana orange; Fahiti lime;	·				·	
				•		·

				M VERIMARK™ RATE		
Crop	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	REI (re-entry interval) (hours)
Cucurbit Vegetables (EPA Crop Group 9) Including	Soil at planting (an in- furrow spray, transplant tray drench by growers or commercial transplant producers no earlier than	Beet armyworm Cabbage looper Cotton/melon aphid Leafminers (<i>Liriomyza</i> spp.) Whitefly*	0.088 - 0.176	6.75 - 13.5	1 -	4
Chayote (fruit), Chinese wax- gourd (Chinese pre-	72 hours prior to planting in the field, transplant watertreatment, hill, drench surface band, soil shank injection)	Green peach aphid Thrips (foliage feeding only)§	0.130 - 0.176	10 - 13.5		
serving melon) Citron melon, Cucumber,	Drip chemigation Make application(s) in the first half of the crop	Beet armyworm (foliage feeding only) Melon worm (foliage feeding only) Pickleworm	0.065 - 0.130	5 - 10		
Gherkin, Edible gourd	growing cycle, typically up to peak bloom crop	Cabbage looper (foliage feeding only) Cotton/melon aphid	0.088 - 0.130	6.75 - 10	٠	
(includes hyotan, cucuzza, hechima,	stage (usually approxi- mately 40 days after crop emergence or transplant- ing).	Green peach aphid Leafminers (<i>Liriomyza</i> spp.) Whitefly*	0.130	10		
Chinese okra), Momordica spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honey dew melon, honey dew melon, santa Claus melon, and snake melon), Pumpkin, Summer squash	with a different mode of ac * - Allow 1 - 3 days for VE transplants following an arplants following a drip app conjunction with an effecti Minimum application inter Do not apply more than 13 Do not apply more than 2 c than one drip chemigation: Do not apply a total of more containing products per creating type application to the plants to ensure VERIMAR of the label for additional glinear feet. Cucurbit Yellow Stunting which may vector the cucur at 10 fl oz/A via drip chemiof cucurbit yellow stunting Adjusting the pH of the a	RIMARK™ to be translocated in plant application. Allow 2-5 days lication. During those times and we foliar whitefly control program val between drip chemigation treating to the control program value val	ito the aerial portion of for VERIMARK when whitefly population is 10 days. ARK™ at planting YERIMARK™ per application of VER® or cyantraniliproto the soil or foliarloo ensure effective of the SOIL APPLion chart for application solution solution solution solution solution solution solution is solution.	ns and to fully protect the to fully protect the ulations are high, use in crop. Do not make more timark to ensure the to entrol to ensure the to entrol to ensure the to to ensure the to entrol to ensure the		
(includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), Winter						
squash (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti		. *				
squash), Watermelon	,		<u>, , </u>			

				™ VERIMARK™ RATE				
Сгор	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	REI (re-entry interval) (hours)		
Fruiting Vegetables and (EPA Crop Group 8-10) African eggplant; Bush tomato;	Soil at planting (an in-furrow spray, transplant tray drench by growers or commercial transplant producers no earlier than 72 hours prior to planting in the field,	Beet armyworm Fall armyworm Southern armyworm Tomato fruitworm Tomato pinworm Western yellowstriped armyworm	0.065 - 0.130	5 - 10	1	4		
Bell pepper; Cocona; Currant tomato; Eggplant; Garden huckleberry;	transplant water treatment, hill drench,surface band, soil shank injection)	Green peach aphid§ Leafminers (Liriomyza spp.) Loopers Potato.aphid§ Whitefly*	0.088 - 0.176	6:75 - 13.5				
Goji berry;		Thrips (foliage feeding only)§	0.130 - 0.176	10 - 13.5				
Groundcherry; Martynia; Naranjilla; Okra; Pea eggplant; Pepper, bell; Pepper, nonbell; Roselle;	Drip chemigation or soil injection	Beet armyworm Colorado potato beetle Fall Armyworm Hornworms Southern armyworm Tomato fruitworm Tomato pinworm Western yellowstriped armyworm	0.065 - 0.130	5 - 10				
Scarlet eggplant; Sunberry; Tomatillo; Tomato; Tree tomato		Green peach aphid§ Leafminers (<i>Liriomyza</i> spp.) Loopers Potato aphid§ Tomato psyllid§ Whitefly*	0.088 - 0.130	6.75 - 10				
		European corn borer Thrips (foliage feeding only)§	0.130	10 ·				
	§ - Suppression only. Use as part of an overall effective control program. Begin drip application when populations first appear. Rotate with products with different modes of action. * - Allow 1 - 3 days for VERIMARK™ to be translocated into the aerial portions and to fully protect transplants following an at-plant application. Allow 2-5 days for VERIMARK™ to fully protect plants in the first half of the growing cycle and 7-10 days for plants in the second half of the growing cycle following a drip application. During those times and when whitefly populations are high, use in conjunction with an effective foliar whitefly control program. Minimum application interval between drip chemigation treatments is 10 days. Do not apply more than 13.5 fl oz (0.176 lb ai/A) of VERIMARK™ at planting. Do not apply more than 2 drip chemigation or soil injection applications of VERIMARK™ per crop. Do not make more than one drip chemigation application per crop if an at plant application of VERIMARK™ was made. Do not apply a total of more than 0.4 lb ai/A of any CYAZYPYR® or cyantraniliprole containing products per crop whether applications are made to the soil or foliarly. VERIMARK™ must be applied uniformly in the root zone to ensure effective control. Surface band application requires a sufficient amount of water post-application to ensure the treatment is moved into the root zone. Drip tape must be placed directly underneath a single row of plants to ensure VERIMARK™ is applied in the root zone. See the SOIL APPLICATION section of the label for additional guidance, also see the rate conversion chart for application rate per 1000 linear feet.							
	VERIMARK™ to control t may vector the tomato yello drip chemigation applied ex virus and tomato yellow lez Adjusting the pH of the a	us and Tomato Yellow Leaf Curhrips which may vector the toma ow leaf curl virus at a rate of 10-1 arry season will help suppress and fourl virus in fruiting vegetables pplication solution: The pH of the title of Application Solution section of Solution.	to spotted wilt virus 3.5 fl oz/A at plant I slow the expression i. he application solution	and whiteflies which and at 10 fl oz/A via n of tomato spotted wilt				

				™ VERIMARK™ RATE	PHI	REI		
Crop	Application Method Target Pest		ication Method Target Pest Lb. ai fluid ounces product per acre per acre					
Leafy Vegetables (non-	Soil at planting (an in- furrow spray, transplant tray drench by growers or	Beet armyworm Corn earworm Diamondback moth†	0.065 - 0.130	5 - 10	N/A	4		
brassica) (EPA Crop group 4) Including Amaranth leafy, Arugula,	commercial transplant producers no earlier than 72 hours prior to planting in the field, transplant water treatment, hill drench, surface band, soil shank injection)	mercial transplant accers no earlier than burs prior to planting be field, transplant treatment, hill beh, surface band,						
Cardoon, Celery, Celery, Celery, Celtuce, Chevril, Chinese spinach, Chrysanthe- mum (edible leaved), Chrysanthe- mum, garland, Corn salad, Cress (garden), Cress (upland), Dandelion, Dock, Endive (escarole), Florence fennel, Lettuce (head & leaf), Orach, Parsley, Purslane (garden), Purslane (garden), Purslane (winter), Radicchio, Rhubarb, Spinach Spinach (vine), Spinach (vine), Spinach (vine), Spinach (vine), Swiss chard, Tampala	with different modes of act * - Allow 1 - 3 days for VE the transplants following at high, use in conjunction wi † - Diamondback moth re more than twice to any gen application of VERIMARI different mode of action (i. generation of diamondback Do not apply less than 5 fl control. Do not make more products for control of dian Do not apply more than 13 Do not apply more than 13 Do not apply a total of mor products per crop whether VERIMARK™ must be ap Surface band application re to ensure the treatment is n section of the label for addi 1000 linear feet. Adjusting the pH of the a	§ - Suppression only. Use as part of an overall effective aphid control program. Rotate to products with different modes of action. *- Allow 1 - 3 days for VERIMARK™ to be translocated into the aerial portions and to fully protect the transplants following an at-plant application. During that time and when whitefly populations are high, use in conjunction with an effective foliar whitefly control program. †- Diamondback moth resistance management - Do not apply cyantramiliprole containing products more than twice to any generation of diamondback moth or within any 30 day period. After the second application of VERIMARK™ for diamondback moth, rotate to another effective product with a different mode of action (i.e. a product with a different IRAC group number). Application(s) to the next generation of diamondback moth must be with an effective product with a different mode of action. Do not apply less than 5 fl oz of VERIMARK™ per application per acre for diamondback control. Do not make more than 6 total applications per calendar year of any cyantramiliprole containing products for control of diamondback moth at the same farm location. Do not apply more than 13.5 fl oz (0.176 lb ai/A) of VERIMARK™ at planting. Do not apply a total of more than 0.4 lb ai/A of any CYAZYPYR® or cyantramiliprole containing products per crop whether applications are made to the soil or foliarly. VERIMARK™ must be applied uniformly in the root zone to ensure effective control. Surface band application requires a sufficient amount of water post-application rate per only a control of the label for additional guidance, also see the rate conversion chart for application rate per						

		·		™ VERIMARK™ RATE						
Crop	Application Method	Target Pest	Lb. ai per acre	fluid ounces product per acre	PHI (pre-harvest interval) (days)	REI (re-entry interval) (hours)				
Tuberous and Corm Vegetables (EPA Crop Subgroup 1C)	Soil at planting (an in-furrow spray, transplant water treatment, hill drench, surface band, soil shank injection	Beet armyworm Cabbage looper Colorado potato beetle† Western yellowstriped armyworm	0.088 - 0.176	6.75 - 13.5	N/A	4				
including, Arracacha;	·	European corn borer Potato flea beetle§	0.130 - 0.176	10 - 13.5						
Arrowroot; Artichoke,	·	Green peach aphid§ Potato psyllid§	13.5		1					
Chinese; Artichoke, Jerusalem; Canna, edible; Cassava, (bitter), Cassava (sweet), Chayote (root); Chufa; Dasheen; Ginger; Leren; Potato, Sweet potato, Tanier; Turmeric; Yam bean; Yam (true)	different modes of action. † - Colorado potato beetle containing product for Colever Markows. Adjusting the pH of the apH 4 and 6. (See "Acidification not apply more than 13 Do not apply a total of more products per crop whether VERIMARK™ must be ap Surface band application re is moved into the root zone	§ - Suppression only. Use as part of an overall effective control program. Rotate to products with different modes of action. † - Colorado potato beetle resistance management: Do not apply any other cyantraniliprole containing product for Colorado potato beetle control following an at plant application of								

VEI	VERIMARK™ CONVERSION CHART FOR DRIP (TRICKLE) CHEMIGATION AND AT- PLANT SOIL APPLICATION														
•			Rat	e in Flui	d Ounces	product/	1000 Rov	v-feet Ba	sed on Pla	inted Row	Spacing	(in inche	es) of:		
Fl oz/Acre	20	25	30	34	36	38	40	44	48	60	66	72	78	80	84
5	0.19	0.24	0.29	0.33	0.34	0.36	0.38	0.42	0.46	0.57	0.63	0.69	0.75	0.77	0.80
6.75	0.26	0.32	0.39	0.44	0.46	0.49	0.52	0.57	0.62	0.77	0.85	0.93	1.01	1.03	1.08
8.5	0.33	0.41	0.49	0.55	0.59	0.62	0.65	0.72	0.78	0.98	1.07	1.17	1.27	1.3	1.37
10	0.38	0.48	0.57	0.65	0.69	0.73	0.77	0.84	0.92	1.15	1.26	1.38	1.49	1.53	1.61
13.5	0.52	0.65	0.77	0.88	0.93	0.98	1.03	1.14	1.24	1.55	1.70	1.86	2.01	2.07	2.17

DUPONT™ VERIMARK™ POTATO SEED PIECE TREATMENT

Application and Mixing Guidance

VERIMARKTM may be applied as a water-based slurry with other registered seed treatment fungicides and insecticides. Potential mixing partners should be tested for physical compatibility with VERIMARKTM and added dyes or polymers before mixing for seed treatment. Avoid mixtures of several materials and very concentrated seed treatment spray mixtures. Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures. Do not mix this product with any product that prohibits such mixing. Caution should be used to ensure that excessive moisture is not applied to the seed pieces to limit potential rotting that may reduce crop emergence. Treat seed pieces as close to planting as possible. If planting is delayed, do not cover treated seed pieces as rotting can be accelerated.

Pests Controlled and Use Rate

Use VERIMARK™ as recommended in the following Use-Rate Table for control of beet armyworm, Colorado potato beetle, cabbage looper, European corn borer, western yellowstriped armyworm and potato flea beetle (suppression). The seed treating rate of VERIMARK™ should be determined based on the planned seeding density. Do not use a seed treatment rate of VERIMARK™ greater than 0.176 pounds of cyantraniliprole per acre. Do not apply any other cyantraniliprole containing product for Colorado potato beetle control following a seed piece application of VERIMARK™. Do not apply a total of more than 0.4 lb. ai/A of any CYAZYPYR® or cyantraniliprole containing products per crop whether applications are made to the soil or foliarly.

Potato Seeding Rate 100 lbs per acre	VERIMARK™ Use Rate (fl oz/100 lb of seed pieces)	VERIMARK™ Use Rate (lb ai/A)
16 - 18	0.63 - 0.75	0.132 - 0.176
19 - 22	0.53 - 0.61	0.131 - 0.175
23 - 25	0.46 – 0.54	0.138 - 0.176
26 - 27	0.46 – 0.5	0.156 - 0.176
28 - 29	0.46	0.168 - 0.174

Mixing Guidance

For use in standard and calibrated seed treatment equipment only. Treatment equipment must be clean and free of previous pesticide deposits before applying $VERIMARK^{TM}$. Add $VERIMARK^{TM}$ directly to the mixing tank. Mix the recommended amount of $VERIMARK^{TM}$ thoroughly with the required amount of water.

Add an EPA approved dye or colorant to treat the seed pieces per 40 CFR 153.155(b)(1) during the seed treatment process. Ensure that all treated seed pieces are dyed an unnatural color.

Mixing Tank Cleanout

Prior to application, start with clean, well maintained application equipment. Immediately following application, thoroughly clean all mixing equipment to reduce the risk of forming hardened deposits, which might become difficult to remove.

Drain mixing equipment. Thoroughly rinse mixing equipment and flush with clean water.

Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources or desirable vegetation. Dispose of water rinse water in accordance with local regulations.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Do not subject to temperatures below 32 degrees F. Store product in original container only in a location inaccessible to children and pets. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Not for use or storage in or around the home.

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING: Refer to the Net Contents section of this product's labeling for the applicable "Refillable Container" or "Nonrefillable Container" designation.

Nonrefillable Rigid Plastic and Metal Containers (Capacity Equal to or Less Than 5 Gallons): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Rigid Plastic and Metal Containers (Capacity Greater Than 5 Gallons): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Rigid Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled or Turned Upside Down): Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying the contents from this container into application equipment or mix tank and before final disposal using the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

All Refillable Containers: Refillable container. Refilling Container: Refill this container with DuPont™ VERIMARK™ containing cyantraniliprole only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. If damage is found, do not use container, contact DuPont at the number below for instructions. Check for leaks after refilling and before transporting. If leaks are found, do not reuse or transport container, contact DuPont at the number below for instructions. Disposing of Container: Do not reuse this container for any other purpose other than refilling (see preceding). Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, use the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Do not transport if container is damaged or leaking. If the container is damaged, leaking or obsolete, or in the event of a major spill, fire or other emergency, contact DuPont at 1-800-441-3637, day or night.

NOTICE TO BUYER— Purchase of this material does not confer any rights under patents of countries outside of the United States.

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LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read this Limitation of Warranty and Liability Before Buying or Using This Product. DuPont will not be responsible for losses or damages resulting from the use of this product in any manner not specifically directed by DuPont. User assumes all risks associated with such non-directed use. If the Terms Are Not Acceptable, Return the Product at Once, Unopened, and the Purchase Price Will Be Refunded.

It is impossible to eliminate all risks associated with the use of this product. Such risks arise from weather conditions, soil factors, off target movement, unconventional farming techniques, presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of DuPont. These risks can cause: ineffectiveness of the product, crop injury, or injury to non-target crops or plants. WHEN YOU BUY OR USE THIS PRODUCT, YOU AGREE TO ACCEPT THESE RISKS.

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