

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

APR 2 5 2008

Ms. Linda Obrestad Labeling Specialist Registration and Regulatory Affairs Valent U.S.A. Corporation 1600 Riviera Ave., Suite 200 Walnut Creek, CA 94596-8025

Re: Notification of Addition of a pest "Leafhoppers" to the Potato Seed-Piece Application

EPA Reg No.: 59639-150

Date of Submission: March 27, 2008

Dear Ms. Obrestad:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated, March 27, 2008, for the product, V-10170 2.13 SC Insecticide. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the actions requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-6249 or Joyce Edwards of my staff at 703-308-5479.

Sincerely,

Linda Arrington

Notifications & Minor Formulations Team Leader

Registration Division (7505P) Office of Pesticide Programs



March 27, 2008

V-10170 2.13 SC Insecticide EPA Reg No. 59639-150 Notification OPP. Identifier .No. 306387

CERTIFICATION STATEMENT

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Linda Obrestad

Labeling Specialist

Registration and Regulatory Affairs

Valent U.S.A. Corporation

Form Approved, OMB No. 2070-0060, Approval expires 2-28-95 Please read instructions on reverse before completing form. **OPP Identifier Number** United States Registration **Environmental Protection Agency Amendment** 306387 Washington, DC 20460 Other Application for Pesticide - Section I 1. Company/Product Number 2. EPA Product Manager 3. Proposed Classification 59639-150 Kable Bo Davis None Restricted 4. Company/Product (Name) DA## V-10170 2.13 SC Insecticide Insecticide Branch 5. Name and Address of Applicant (Include ZIP Code) 6. Expedited Reveiw. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling Valent U.S.A. Corporation to: 1600 Riviera Ave., Suite 200 EPA Reg. No. . Walnut Creek, CA 94596-8025 Check if this is a new address **Product Name** Section - II Amendment - Explain below. Final printed labels in repsonse to Agency letter dated "Me Too" Application. Resubmission in response to Agency letter dated __ Notification - Explain below. Other - Explain below. Explanation: Use additional page(s) if necessary. (For section I and Section II.) Notification: Addition of a pest "Leafhoppers" to the Potato Seed-Piece application on page 14. Section - III 1. Material This Product Will Be Packaged In: Child-Resistant Packaging Unit Packaging Water Soluble Packaging 2. Type of Container Metal Yes Yes Yes Plastic No No No Glass Paper If "Yes" No. per If "Yes" No. per * Certification must Unit Packaging wgt. Other (Specify) Package wgt container container be submitted 3. Location of Net Contents Information 5. Location of Label Directions 4. Size(s) Retail Container ✓ On Labeling Container 6. Manner in Which Label is Affixed to Product Other Lithograph Paper glued Stenciled Section - IV 1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.) Name Title Telephone No. (Include Area Code) Linda Obrestad (925) 256-2791 Labeling Specialist 6. Date Application Certification Received I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowlingly false or misleading statement may be punishable by fine or imprisonment or (Stamped) both under applicable law. 2. Signature Labeling Specialist 4. Typed Name 5. Date Linda Obrestad March 27, 2008

Please read instructions	on re	verse before complet	ting form.		F	orm Approv	ed. O	MB No. 20	70-0060	والمستقد وا
0.554		· U	nited States				R	egistra	tion	OPP Identifier Number
\$EPA		Environmental		_	ncy	. [mendr	nent	200207
		Washir	ngton, DC 20	460		L		ther		306387
			Application	on for l	Pesticide	- Section	on I			
1. Company/Product Nu	mber				2. EPA Pro	duct Manag	er		3. Pr	oposed Classification
	_	····				· · · · · · · · · · · · · · · · · · ·			╝┌] [].
4. Company/Product (Na	ame)				PM#					None Restricted
5. Name and Address o	f Appl	licant (Include ZIP Co	dej		6. Expedi	ited Revie	w. Ir	accorda	nce with	FIFRA Section 3(c)(3)
					1	product is	simila	r or ident	ical in co	mposition and labeling
					to:	ı No				
<u></u>						g. 110				
Check h	f this	is a new address				Name				,
		~		Sec	tion - II					
Amendment - Ex	(plain	below.			Fi	nal printed l	abels i	n response	to	
Resultation in	reeno	onse to Agency letter	dated			gency letter Me Too" Ap				
			08100		닐					
Notification - Ex	plain b	pelow.			°	ther - Explai	n belo	w. _.		
Explanation: Use add	dition	al page(s) if necessar	y. (For sectio	n I and Se	ction II.)					
					•					
										•
				Sect	tion - III					
1. Material This Product	t Will	Be Packaged In:								
Child-Resistant Packagi	ng	Unit Packaging		Water	Soluble Pack	caging	2	2. Type of	Container	
Yes		Yes			Yes				Metal Plastic	
∐ No		∐ No	· · · · · · · · · · · · · · · · · · ·	<u> </u>	No				Glass	
* Certification mus	t	If "Yes" Unit Packaging wgt.	No. per container	If "Yes Packag	s" ge wgt	No. per container			Paper Other (S	Specify)
be submitted									<u>-</u>	
3. Location of Net Cont	ents li	nformation	4. Size(s) Re	tail Contai	ner	5	. Locat	tion of Lab On Label		ons
Label	c ₀	ontainer						On Label	ing accom	panying product
6. Manner in Which Lab	el is A	Affixed to Product	Lithor Paper	raph glued iled	[Other		·	····	
			Stenc		ion 11/			···		
					ion - IV					
1. Contact Point /Comp	olete i	tems directly below for	or identification		idual to De C	ontacted, if	neces	sary, to pr		
Name				Title					Telephon	e No. (Include Area Code)
			Certifica	ation						6. Date Application
		nents I have made on knowingly false or m								Received
both under applic			neisamiil efg	rottiotif 1115	na hnuisus	POIG DA HUG	or imp	iibui utieii t	or , , ,	ୁ(Stamped)
2. Signature				3. Title		*		,	31.	
i										e ee
		****. * * * * * * * * * * * * * * * * *		F. D.		 				
4. Typed Name				5. Date						5
]	•									, v



GROUP AM INSECTICIDE

NOTIFICATION V-10170 2.13 SC INSECTICIDE

FOR USE ON GRAPE, POME FRUIT, POTATO AND TOBACCO

FOR SYSTEMIC CONTROL OF INSECTS ON ORNAMENTAL PLANTS, NON-BEARING FRUIT AND NUTS GROWN IN FIELD NURSERY PLANTINGS, CONTAINER NURSERIES, FOREST NURSERIES, GREENHOUSES, LATH AND SHADE HOUSES, INTERIORSCAPES AND OTHER SITES WHERE PLANTS ARE GROWN FOR ORNAMENTAL, AESTHETIC AND CLIMATE MODIFICATION PURPOSES, SOD FARMS AND TURFGRASS

Active Ingredient		By Wt.
*Clothianidin		23.00%
Other Ingredients	<u>. 7</u>	77.00%
war . I	<u>10</u>	

*(E)-1-(2-chlorothiazol-5-ylmethyl)-3-methyl-2-nitroguanindine

Contains 2.13 lbs active ingredient per gallon

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE NEXT PAGE FOR PRECAUTIONARY STATEMENTS

NET WEIGHT

EPA Reg. No. 59639-150 EPA Est. No.

Sub Label 1

V-10170 2.13 SC For use on Grape, Pome Fruit, Potato and Tobacco



GROUP ZA INSECTICIDE

V-10170 2.13 SC INSECTICIDE

FOR USE ON GRAPE, POME FRUIT, POTATO AND TOBACCO

Active Ingredient	By '	Wt.
*Clothianidin		0%
Other Ingredients	<u>76.4</u>	0%
Total	100.0	0%

*(E)-1-(2-chlorothiazol-5-ylmethyl)-3-methyl-2-nitroguanindine

Contains 2.13 lbs active ingredient per gallon

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE NEXT PAGE FOR PRECAUTIONARY STATEMENTS

NET WEIGHT

EPA Reg. No. 59639-150 EPA Est. No.



PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Harmful if swallowed.

FIRST AID

lf

Call a poison control center or doctor immediately for treatment advice.

swallowed:

- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

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, shoes plus socks and chemical-resistant gloves made of any waterproof material.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no 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.
- 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 product is toxic to aquatic invertebrates. Do not apply when weather conditions favor drift from treated areas. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

This product is toxic to bees exposed to treatment and for more than 5 days following treatment. Do not apply this product to blooming, pollen-shedding or nectar-producing parts of plants if bees may forage on the plants during this time period, unless the application is made in response to a public health emergency declared by appropriate state or federal authorities.

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 any 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 on this label about personal protective equipment (PPE), notification to workers 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 entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that involves contact with anything that has been treated, such as plants, soil or water is: coveralls, shoes plus socks, chemical resistant gloves made of any waterproof material.

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 FULLEST EXTENT ALLOWED BY 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 fullest extent allowed by law, Valent or Seller is not liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. 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 FULLEST EXTENT ALLOWED BY LAW, THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

PROMPT NOTICE OF CLAIM

To the extent consistent with applicable law allowing such requirements Valent must be provided notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty-one days from date of planting, or twenty-one days from the date of application, whichever is latter, 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.

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

RESISTANCE MANAGEMENT

V-10170 2.13 SC contains a Group 4A insecticide. Insect biotypes with acquired resistance to Group 4A insecticides may eventually dominate the insect population if Group 4A insecticides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by *V-10170 2.13 SC* or other Group 4A insecticides.

To delay insecticide resistance consider:

- Avoiding the consecutive use of V-10170 2.13 SC or other Group 4A insecticides that have a similar target site of action on the same insect species.
- Using tank mixtures or premixes with insecticides from a different target site of action Group as long as the involved products are all registered for the same use and have different sites of action.
- Basing insecticide use on a comprehensive Integrated Pest Management (IPM) program.
- Monitoring treated insect populations for loss of field efficacy.
- Contacting your local extension specialist, certified crop advisors and/or manufacturer for insecticide resistance management or IPM recommendations for the specific site and resistant pest problems.
- For further information or to report suspected resistance, you may contact Valent U.S.A. Corporation at 800-682-5368.

RESTRICTIONS AND LIMITATIONS

V-10170 2.13 SC is an insecticide for broad spectrum control of insects infesting grape, pome fruit, potato and tobacco. When applied as directed, *V-10170 2.13 SC* provides excellent and long residual control.

- Do not use a foliar application of clothianidin (*V-10170 2.13 SC*) following a soil application of clothianidin.
- Regardless of formulation or type of application (soil or foliar), Do not apply more than a total of 0.2 lbs active ingredient clothianidin per acre per season for all crops.
- If the maximum season limit of clothianidin as mentioned above has been applied and pest populations require additional treatments, use another registered pesticide that is not in the neonicotinoid class of chemistry.
- Do not apply by air.

PLANT TOLERANCE

Neither the manufacturer nor the seller has determined whether or not *V-10170 2.13 SC* can be used safely on all cultivars registered for use. *V-10170 2.13 SC* has been tested on many cultivars with no phytotoxicity observed at label rates. Since all plant species and their varieties and cultivars have not been tested for tolerance, it is recommended that a small number of plants be sprayed to make certain that no phytotoxicity occurs, prior to any large scale application to plants. The end user assumes all risks arising from application of *V-10170 2.13 SC* in a manner inconsistent with its labeling.

V-10170 2.13 SC can be tank mixed. However, all plant species and their varieties and cultivars have not been tested with possible tank mix combinations, sequential pesticide treatments and adjuvants and surfactants. The user should conduct a spray mix compatibility and phytotoxicity trial under local conditions to ensure compatibility prior to any large-scale use.

MIXING INSTRUCTIONS

- 1. Begin with clean equipment.
- 2. Add sufficient clean water to the spray tank for 1/2 of the mix load.
- 3. Start tank agitation.
- 4. Add and properly suspend the necessary amount of V-10170 2.13 SC before adding any other products. Agitate to ensure thorough mixing while adding the remaining required water. A high quality wetting agent or other spray adjuvant, approved for use on your crop, may be added to spray solutions according to the manufacturer's use instructions. V-10170 2.13 SC should be properly suspended and diluted prior to the addition of any adjuvant. Consult adjuvant label or manufacturer for crop tolerance and safety information when used with this product.
- 5. Maintain agitation during mixing and application.
- 6. Apply with properly calibrated spray equipment.

SPRAY DRIFT MANAGEMENT

Do not allow this product to drift onto neighboring crops or non-crop areas or use in a manner or at a time other than in accordance with label directions because animal, plant or crop injury, illegal residues or other undesirable results may occur.

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 these factors when making decisions. Where states have more stringent regulations, they should be observed.

APPLICATION PROCEDURES

Foliar Application

Spray nozzles should be selected which will provide accurate and uniform spray deposition. Use spray nozzles which provide medium sized droplets and reduce drift. To help insure accuracy, calibrate sprayer before each use. For information on spray equipment and calibration, consult nozzle manufacturers and/or State and County Extension Service.

Apply *V-10170 2.13 SC* using sufficient water volume to provide thorough and uniform coverage. In situations where a dense canopy exists and/or pest pressure is high, use greater water volumes. The use of a spray adjuvant may improve spray coverage. Avoid making applications under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur.

Application Through Irrigation Systems (Chemigation)

V-10170 2.13 SC alone or in combination with other products which are registered for application through sprinkler irrigation may be applied through irrigation systems. Apply this product only through micro-irrigation (individual spaghetti tube), drip irrigation, overhead irrigation or motorized calibrated irrigation equipment. Do not apply through any other type of irrigation system. Lack of effectiveness can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact your State Extension Service specialist, equipment manufacturer or other experts. 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.

Using Water from Public Water Systems

• Do not apply *V-10170 2.13 SC* through any irrigation system physically connected to a public water system.

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 daily at least 60 days per year. *V-10170 2.13 SC* may be applied through irrigation systems which may be supplied by a public water system only if the water from the public water system is 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 to top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. Before beginning chemigation, always make sure that the air gap exists and that there is no blockage of the overflow of the reservoir tank.

Any irrigation system using water supplied from a public water system must also meet the following requirements:

Operating Instructions for All Recommended Types of Irrigation Systems

- 1. The system must be calibrated to uniformly apply the rates specified. If you have questions about calibration, you should contact your State Extension Service specialist, equipment manufacturer or other experts.
- 2. 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.
- 3. The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.
- 4. 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.
- 5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 6. 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.
- 7. 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 and capable of being fitted with a system interlock.
- 8. Do not apply when wind speed favors drift beyond the area intended.

Calibration and Application Instructions

V-10170 2.13 SC should be applied under the schedule specified in the specific crop use recommendations, not according to the irrigation schedule, unless the events coincide. In general, set the equipment to apply the minimum amount of water per acre. Run the system at 86 to 90% of the manufacturer's maximum rated travel speed.

The following calibration and application techniques are provided for user reference, but do not constitute a warranty of fitness for application through sprinkler irrigation equipment. Users should check with state and local regulatory agencies for potential use restrictions before applying any agricultural chemical through sprinkler irrigation equipment.

Center Pivot Irrigation Equipment

- 1. Use only drive systems that provide uniform water distribution.
- 2. Do not use end guns when chemigating *V-10170 2.13 SC* through center pivot systems because of non-uniform application.
- 3. Plug the first nozzle closest to the well head to protect the water source.
- 4. Determine the size of the area to be treated.
- 5. Determine the time required to apply 0.1 to 0.25 inches of water over the area to be treated when the system and injection equipment are operated at normal pressures as recommended by the equipment manufacturer. Run the system at 80 to 95% of the manufacturer's rated maximum travel speed.
- 6. Using water, determine the injection pump output when operated at normal line pressure.
- 7. Determine the amount of *V-10170 2.13 SC*, and any tank mix partners, required to treat the area covered by the irrigation system.
- 8. Add the required amount of *V-10170 2.13 SC*, and any tank mix partners, and sufficient water to meet the injection time requirements to the solution tanks. (See "Mixing Instructions" section of this label.)
- 9. Make sure the system is fully charged with water before starting injection of the *V-10170* 2.13 SC solution. Time the injection to last at least as long as it takes to bring the system to full pressure.
- 10. Maintain constant agitation in the solution tank during the injection period.
- 11. Inject the specified amount of *V-10170 2.13 SC* per acre continuously for one complete revolution of the system.
- 12. Stop the injection equipment after treatment is complete. Continue to operate the system until the *V-10170 2.13 SC* solution has cleared all of the sprinkler heads.
- 13. Allow time for all lines to flush the pesticide through all nozzles before turning off irrigation water.

Solid Set, Hand Move and Moving Wheel Irrigation Equipment

- 1. Determine the acreage covered by the sprinklers.
- 2. Fill injector solution tank with plain water and calibrate the flow rate of the system to deliver the contents of the tank over a 20 to 40 minute time interval.
- 3. Determine the amount of *V-10170 2.13 SC* required to treat the area covered by the irrigation system.
- 4. Add the required amount of *V-10170 2.13 SC*, and any other tank mix partners, into the same quantity of water used to calibrate the injection period. (See "Mixing Instructions" section of this label.)
- 5. Operate the system at the same pressure and time interval established during the calibration.
- 6. Inject specified amount of *V-10170 2.13 SC* per acre for either a 20 to 40 minute period at the end of a regular irrigation set, or as a 20 to 40 minute injection as a separate application not associated with a regular irrigation to maximize retention of the insecticide by the foliage.
- 7. Stop injection equipment after treatment is completed. Continue to operate the system until the *V-10170 2.13 SC* solution has cleared the last sprinkler head. To ensure lines are flushed and free from remaining pesticides, a dye indicator may be injected into the lines to mark the end of the application period.

GRAPE

RECOMMENDED FOLIAR APPLICATION RATE FOR USE ON GRAPE

Pests	V-10170 2.13 SC Application Rates	Special Instructions
Leafhoppers Grape Leaf Skelotinizer	1.9 to 3.8 fl oz/A (0.03 to 0.06 lb ai/A)	V-10170 2.13 SC should be applied when threshold populations are observed. Do not wait until large
Sharpshooters	3.8 to 5.6 fl oz/A (0.06 to 0.09 lb ai/A)	insect populations have been established. Apply <i>V</i> -10170 2.13 SC in sufficient water to ensure uniform and thorough coverage of foliage. Thorough
Grape Berry Moth Japanese Beetle	5.6 fl oz/A (0.09 lb ai/A)	coverage is required for optimum control

- Do not apply more than two (2) applications of V-10170 2.13 SC).
- Do not apply more than 12 fl oz of *V-10170 2.13 SC* (0.2 lb ai) per acre per season.
- Do not apply treatments less than 14 days apart.
- May be applied up to harvest (0 days PHI).
- Do not apply V-10170 2.13 SC following a V-10170 2.13 SC soil application.

RECOMMENDED SOIL APPLICATION RATE FOR USE ON GRAPE

Pests	V-10170 2.13 SC Application Rates	Special Instructions
Leafhoppers	6 to 12 fl oz/A	V-10170 2.13 SC should be applied when threshold
Grape Mealybug	(0.1 to 0.2 lb ai/A)	populations are observed. Do not wait until large
Grape Phylloxera spp. (suppression only) Vine Mealybug		insect populations have been established. Apply specified rate in sufficient carrier volume to insure uniform application and incorporate into the soil
Japanese Beetle	1.8 fl oz/A (0.03 lb ai/A)	using drip or trickle irrigation water.
		For Mealybug control, apply between bud break and pea-berry size.

- Do not apply more than two (2) applications of V-10170 2.13 SC.
- Do not apply more than 12 fl oz of *V-10170 2.13 SC* (0.2 lb ai) per acre per season.
- Do not apply treatments less than 14 days apart.
- Do not apply within thirty (30) days of harvest.

POME FRUIT

RECOMMENDED FOLIAR POST BLOOM APPLICATION RATES FOR USE ON POME FRUIT

_	/	V-10170 2.13 SC	
Crop	Pests	Application	Special Instructions
	<u> </u>	Rates	
Pome Fruit	Aphids	3.8 to 5.6 fl oz/A	V-10170 2.13 SC should be applied
including:	Leafhopper	(0.06 to 0.09 lb ai/A)	when threshold populations are
Apple	Apple Maggot	5.6 fl oz/A	observed. Do not wait until large
Crabapple	Leafminers	(0.09 lb ai/A)	insect populations have been
Loquat	Plum Curculio		established.
Mayhew Pear	Codling Moth	5.6 to 11.3 fl oz/A	The emount of 1/ 10170 2 12 CC no.
Oriental	Oblique-banded	(0.09 to 0.19 lb ai/A)	The amount of <i>V-10170 2.13 SC</i> per
Pear	Leafrollers		acre will depend on tree size and pest pressure. Choose lower rates
Quince	Oriental Fruit		for light infestation and/or small
Quince	Moth		trees and the higher rates for heavy
	Scale	7 5 45 44 2 5 5 5 7	infestations and/or larger trees.
	Pear Psylla	7.5 to 11.3 fl oz/A (0.12 to 0.19 lb/A)	integrations and/or larger trees.
		(0.12 to 0.19 lb/A)	Apply by ground 100 to 400 gallons
			per acre as a full coverage spray.
•			Spray volume will depend on tree
		·	size and density of canopy.
		,	, , , , , , , , , , , , , , , , , , , ,
			Applications may also be made as a
			concentrate spray. Maintain the
			same amount of product per acre as
	·		a dilute application using the
			appropriate amount of concentrate
	·		spray volume. Repeat applications
:		•	as needed to maintain control but do
			not apply more often than every 10
		•	days. A single application may result
			in suppression only.
			For ontimum control of Lastmin
•			For optimum control of Leafminers and Leafrollers, make the first
			application as soon as pollination is
,			complete and bees are removed
			from the orchard.
			<u> </u>

- Do not apply more than 12 fl oz of V-10170 2.13 SC (0.2 lb ai) per season.
- Do not apply within 7 days of harvest.
- Do not feed or allow livestock to graze on cover crops from treated orchards.

POTATO

RECOMMENDED FOLIAR APPLICATION RATES FOR USE ON POTATO

V-10170 2.13 SC Application Rates	Special Instructions
1.9 to 2.8 fl oz/A	V-10170 2.13 SC should be applied when
(0.03 to 0.05 lb ai/A)	threshold populations are observed. Do not
·	wait until large insect populations have
	been established.
	Application Rates

- Do not apply more than three (3) applications of *V-10170 2.13 SC*.
- Do not apply treatments less than 7 days apart.
- Do not apply within 14 days of harvest.
- Do not apply *V-10170 2.13 SC* following a *V-10170 2.13 SC* soil application. Apply when pest populations reach economic threshold.

RECOMMENDED IN-FURROW OR SIDE DRESS APPLICATION RATES FOR USE ON POTATO

	V-10170 2.13 SC	
Pests	Application Rates	Special Instructions
Aphids Colorado Potato Beetle Flea Beetle Leafhoppers Potato Psyllid (suppression only)	7.2 to 12.0 fl oz/A (0.1 to 0.2 lb ai/A)	 Timing of Application: At planting or as a side-dress on both sides of the row at ground-crack during hilling. With ground-crack/hilling application make certain product is covered with at least 3 inches of soil. 1. Apply specified rate in sufficient carrier volume to insure uniform application and incorporate into the soil using one of the following methods: In a narrow band centered on the plant row in the bedding operation just prior to planting. 2. In-furrow spray at planting. Direct spray in the furrow on the seed pieces or potatoes. 3. As a sidedress to both sides of the row or as a spray at ground crack directly over the row during hilling. Cover immediately with soil.
 Do not apply more that 	n one (1) soil application	of V-10170 2.13 SC.

POTATO (continued)

RECOMMENDED SEED-PIECE APPLICATION RATES FOR USE ON POTATO

Pests	V-10170 2.13 SC Rates/100 lbs seed	Special Instructions
Aphids Colorado Potato Beetle Flea Beetles Leafhoppers Potato Leafhoppers Potato Psyllid Wireworms (seed-piece protection only) DISEASES SUPPRESSED	0.4 to 0.6 fl oz*	Seed-Piece Application: Apply specified dosage as a diluted, fine spray applied over the cut or whole seed tubers. A dilution rate of 1 part V10170 2.13 SC to 3 parts water, or less, is recommended. Maintain agitation of spray mixture during the
Symptoms of: Potato Leaf Roll virus (PLRV) Potato Yellows Net Necrosis	0.6 fl oz	application process. Use a spray system that is properly shielded to prevent any spray from moving off target. Liquid-based fungicides can be applied with V10170 2.13 SC; however check compatibility before use. If using inert dusts or dust-based fungicides, apply V10170 2.13 SC first, followed by dust application. Apply only in areas with adequate ventilation to accommodate dry-down and in areas equipped to remove mist or dust. Plant treated seed-pieces as soon as possible after treating.
Do not use treated seed pieces for fo		*Based on seeding rate of 2,000 lbs/acre, seed-piece application rate range equals in-furrow/side-dress per acre application rate range.

Do not use treated seed-pieces for food, feed or fodder.

Do not apply any subsequent application of V-10170 2.13 SC (in-furrow, side-dress) following a V-10170 2.13 SC seed-piece treatment.

TOBACCO

RECOMMENDATION FOLIAR APPLICATION RATES FOR USE ON TOBACCO

Pests	V-10170 2.13 SC Application Rates	Special Instructions
Aphids Fleabeetle	2.8 to 3.8 fl oz/A (0.05 to 0.06 lb ai/A)	V-10170 2.13 SC should be applied when threshold populations are observed. Do not wait until large insect populations have been established.
Tobacco Budworm (suppression only) Tobacco Hornworm (suppression only)	3.8 fl oz./A (0.06 lb ai/A)	Make application using equipment that delivers a coarse droplet spray and low pressure to prevent off target drift. Check calibration periodically to ensure that your equipment is working properly.
		For suppression of budworms and hornworms, make the first application as soon as eggs hatch and repeat applications as necessary to maintain suppression.

- Do not apply more than 6.3 fl oz of V-10170 2.13 SC (0.2 lb ai) per acre per season.
- Do not apply treatments less than 7 days apart.
- Do not apply within 14 days of harvest.

RECOMMENDATION SOIL APPLICATION RATES FOR USE ON TOBACCO (In Transplanted Water Application or Tray, or Flat Drench Application)

Pests	V-10170 2.13 SC Application Rates	Special Instructions
Fleabeetle	3.0 to 6.0 fl oz/A (0.05 to 0.1 lb ai/A)	V-10170 2.13 SC must be mixed with water prior to application. Keep the V-10170 2.13 SC
Aphids Tobacco Budworm (suppression only) Tobacco Hornworm (suppression only)	6.0 fl oz./A (0.1 lb ai/A)	solution agitated or mix regularly to avoid settling in the spray or transplant tank. Apply <i>V-10170 2.13 SC</i> at the specified dosage to the soil in transplant water or by drench to trays or flats prior to transplanting. Plants in flats or trays should be watered by overhead irrigation to wash <i>V-10170 2.13 SC</i> from foliage into the potting media. Failure to wash <i>V-10170 2.13 SC</i> from foliage may result in a reduction of control.
	- H 40 fl 5 1/ 4047	Soil applications may sometimes cause yellowing on the leaves present at the time of transplanting. This effect does not have any impact on plant growth and yields.

- Do not apply more than 12 fl oz of V-10170 2.13 SC (0.2 lb ai) per acre per season.
- Do not apply within 14 days of harvest.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Store in a dry place away from excessive heat.

Do not store near food or feed.

Store in original container only.

To close package, replace and tighten cap to form an airtight seal.

PESTICIDE DISPOSAL

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

CONTAINER DISPOSAL

Triple rinse (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or (if allowed by State and local authorities) by burning. If burned, stay out of smoke.

Copyright© 2008 by Valent U.S.A. Corporation.

Manufactured for:

Valent U.S.A. Corporation

P.O. Box 8025 Walnut Creek CA 94596 - 8025 www.valent.com

Made in U.S.A.

EPA Reg. No. 59639-150 EPA Est. No.

059639-00150.20070710.V10170 2.13SC.FINAL

[Sub Label 2]

V-10170 2.13 SC

FOR USE ON LANDSCAPE ORNAMENTALS, NON-BEARING FRUIT AND NUTS (IN LANDSCAPES), SOD FARMS AND TURFGRASS



GROUP 4A INSECTICIDE

V-10170 2.13 SC

INSECTICIDE

FOR SYSTEMIC CONTROL OF INSECTS ON ORNAMENTAL PLANTS GROWN IN FIELD NURSERY PLANTINGS, CONTAINER NURSERIES, FOREST NURSERIES, GREENHOUSES, LATH AND SHADE HOUSES, INTERIORSCAPES AND OTHER SITES WHERE PLANTS ARE GROWN FOR ORNAMENTAL, AESTHETIC AND CLIMATE MODIFICATION PURPOSES, NON-BEARING FRUIT AND NUTS AND TURFGRASS

Active Ingredient	By Wt.
*Clothianidin	23.60%
Other Ingredients	76.40%
Total	100.00%

*(E)-1-(2-chlorothiazol-5-ylmethyl)-3-methyl-2-nitroguanindine

Contains 2.13 pound active ingredient per gallon

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE NEXT PAGE FOR PRECAUTIONARY STATEMENTS

NET WEIGHT

EPA Reg. No. 59639-150 EPA Est. No.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Harmful if swallowed.

FIRST AID

lf

Call a poison control center or doctor immediately for treatment advice.

swallowed:

- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

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, shoes plus socks and chemical-resistant gloves made of any waterproof material.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no 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.
- 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 product is toxic to aquatic invertebrates. Do not apply when weather conditions favor drift from treated areas. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

This product is toxic to bees exposed to treatment and for more than 5 days following treatment. Do not apply this product to blooming, pollen-shedding or nectar-producing parts of plants if bees may forage on the plants during this time period, unless the application is made in response to a public health emergency declared by appropriate state or federal authorities.

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 on this label about personal protective equipment (PPE), notification to workers 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 entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that involves contact with anything that has been treated, such as plants, soil or water is: coveralls, shoes plus socks, chemical resistant gloves made of any waterproof material.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forest, nurseries or commercial greenhouses.

Keep children and pets off treated area until the sprays have dried.

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 any 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.

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 FULLEST EXTENT ALLOWED BY 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 fullest extent allowed by law, Valent or Seller is not liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. 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 FULLEST EXTENT ALLOWED BY LAW, THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

PROMPT NOTICE OF CLAIM

To the extent consistent with applicable law allowing such requirements Valent must be provided notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty-one days from date of planting, or twenty-one days from the date of application, whichever is latter, 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.

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

RESISTANCE MANAGEMENT

V-10170 2.13 SC contains a Group 4A insecticide. Insect biotypes with acquired resistance to Group 4A insecticides may eventually dominate the insect population if Group 4A insecticides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by *V-10170 2.13 SC* or other Group 4A insecticides.

To delay insecticide resistance consider:

- Avoiding the consecutive use of V-10170 2.13 SC or other Group 4A insecticides that have a similar target site of action on the same insect species.
- Using tank mixtures or premixes with insecticides from a different target site of action Group as long as the involved products are all registered for the same use and have different sites of action.
- Basing insecticide use on a comprehensive Integrated Pest Management (IPM) program.
- Monitoring treated insect populations for loss of field efficacy.
- Contacting your local extension specialist, certified crop advisors and/or manufacturer for insecticide resistance management or IPM recommendations for the specific site and resistant pest problems.
- For further information or to report suspected resistance, you may contact Valent U.S.A. Corporation at 800-682-5368.

GENERAL INFORMATION

V-10170 2.13 SC is a broad spectrum insecticide, for control of a wide spectrum of insects infesting turfgrass, landscape ornamentals, interior plantscapes and non-bearing fruit (including apples and pears) and nut trees (in landscapes). When applied as directed, *V-10170 2.13 SC* provides excellent and long residual insect control.

RESTRICTIONS AND LIMITATIONS

- Do not use a foliar application of clothianidin (*V-10170 2.13 SC*) following a soil application of clothianidin.
- Regardless of formulation or type of application (soil or foliar), Do not apply more than a
 total of 0.2 lb active ingredient clothianidin per acre per season for all crops, except for
 Turf and Landscape Ornamental use, which is not to exceed 0.4 lb active ingredient.
- If the maximum season limit of clothianidin as mentioned above has been applied and
 pest populations require additional treatments, use another registered pesticide that is
 not in the neonicotinoid class of chemistry.
- Do not apply by air.

PLANT TOLERANCE

Neither the manufacturer nor the seller has determined whether or not *V-10170 2.13 SC* can be used safely on all cultivars of plants listed on the label. *V-10170 2.13 SC* has been tested on many cultivars with no phytotoxicity observed at label rates. Since all plant species and their varieties and cultivars have not been tested for tolerance, it is recommended that a small number of plants be sprayed to make certain that no phytotoxicity occurs, prior to any large scale application to plants. The end user assumes all risks arising from application of *V-10170 2.13 SC* in a manner inconsistent with its labeling.

V-10170 2.13 SC can be tank mixed. However, all plant species and their varieties and cultivars have not been tested with possible tank mix combinations, sequential pesticide treatments and adjuvants and surfactants. The user should conduct a spray mix compatibility and phytotoxicity trial under local conditions to ensure compatibility prior to any large-scale use.

MIXING INSTRUCTIONS

- 1. Begin with clean equipment.
- 2. Add sufficient clean water to the spray tank for 1/2 of the mix load.
- 3. Start tank agitation.
- 4. Add and properly suspend the necessary amount of *V-10170 2.13 SC* before adding any other products. Agitate to ensure thorough mixing while adding the remaining required water. A high quality wetting agent or other spray adjuvant, approved for use on your crop, may be added to spray solutions according to the manufacturer's use instructions. *V-10170 2.13 SC* should be properly suspended and diluted prior to the addition of any adjuvant. Consult adjuvant label or manufacturer for crop tolerance and safety information when used with this product.
- 5. Maintain agitation during mixing and application.
- 6. Apply with properly calibrated spray equipment.

APPLICATION PROCEDURES

Foliar Application

Spray nozzles should be selected which will provide accurate and uniform spray deposition. Use spray nozzles which provide medium sized droplets and reduce drift. To help insure accuracy, calibrate sprayer before each use. For information on spray equipment and calibration, consult nozzle manufacturers and/or State and County Extension Service.

Apply *V-10170 2.13 SC* using sufficient water volume to provide thorough and uniform coverage. In situations where a dense canopy exists and/or pest pressure is high, use greater water volumes. The use of a spray adjuvant may improve spray coverage. Avoid making applications under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur.

Application Through Irrigation Systems (Chemigation)

V-10170 2.13 SC alone or in combination with other products which are registered for application through sprinkler irrigation may be applied through irrigation systems. Apply this product only through micro-irrigation (individual spaghetti tube), drip irrigation, overhead irrigation or motorized calibrated irrigation equipment. Do not apply through any other type of irrigation system. Lack of effectiveness can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact your State Extension Service specialist, equipment manufacturer or other experts. 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.

Using Water from Public Water Systems

• Do not apply V-10170 2.13 SC through any irrigation system physically connected to a public water system.

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 daily at least 60 days per year. *V-10170 2.13 SC* may be applied through irrigation systems which may be supplied by a public water system only if the water from the public water system is 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 to top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. Before beginning chemigation, always make sure that the air gap exists and that there is no blockage of the overflow of the reservoir tank.

Any irrigation system using water supplied from a public water system must also meet the following requirements:

Operating Instructions for All Recommended Types of Irrigation Systems

- 1. The system must be calibrated to uniformly apply the rates specified. If you have questions about calibration, you should contact your State Extension Service specialist, equipment manufacturer or other experts.
- 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.
- 3. The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.
- 4. 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.
- 5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 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.
- 7. 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 and capable of being fitted with a system interlock.
- 8. Do not apply when wind speed favors drift beyond the area intended.

Calibration and Application Instructions

V-10170 2.13 SC should be applied under the schedule specified in the specific crop use recommendations, not according to the irrigation schedule, unless the events coincide. In general, set the equipment to apply the minimum amount of water per acre. Run the system at 86 to 90% of the manufacturer's maximum rated travel speed.

The following calibration and application techniques are provided for user reference, but do not constitute a warranty of fitness for application through sprinkler irrigation equipment. Users should check with state and local regulatory agencies for potential use restrictions before applying any agricultural chemical through sprinkler irrigation equipment.

Center Pivot Irrigation Equipment

- 1. Use only drive systems that provide uniform water distribution.
- 2. Do not use end guns when chemigating *V-10170 2.13 SC* through center pivot systems because of non-uniform application.
- 3. Plug the first nozzle closest to the well head to protect the water source.
- 4. Determine the size of the area to be treated.

- 5. Determine the time required to apply 0.1 to 0.25 inches of water over the area to be treated when the system and injection equipment are operated at normal pressures as recommended by the equipment manufacturer. Run the system at 80 to 95% of the manufacturer's rated maximum travel speed.
- 6. Using water, determine the injection pump output when operated at normal line pressure.
- 7. Determine the amount of *V-10170 2.13 SC*, and any tank mix partners, required to treat the area covered by the irrigation system.
- 8. Add the required amount of *V-10170 2.13 SC*, and any tank mix partners, and sufficient water to meet the injection time requirements to the solution tanks. (See "Mixing Instructions" section of this label.)
- 9. Make sure the system is fully charged with water before starting injection of the *V-10170* 2.13 SC solution. Time the injection to last at least as long as it takes to bring the system to full pressure.
- 10. Maintain constant agitation in the solution tank during the injection period.
- 11. Inject the specified amount of *V-10170 2.13 SC* per acre continuously for one complete revolution of the system.
- 12. Stop the injection equipment after treatment is complete. Continue to operate the system until the *V-10170 2.13 SC* solution has cleared all of the sprinkler heads.
- 13. Allow time for all lines to flush the pesticide through all nozzles before turning off irrigation water.

Solid Set, Hand Move and Moving Wheel Irrigation Equipment

- 1. Determine the acreage covered by the sprinklers.
- 2. Fill injector solution tank with plain water and calibrate the flow rate of the system to deliver the contents of the tank over a 20 to 40 minute time interval.
- 3. Determine the amount of *V-10170 2.13 SC* required to treat the area covered by the irrigation system.
- 4. Add the required amount of *V-10170 2.13 SC*, and any other tank mix partners, into the same quantity of water used to calibrate the injection period. (See "Mixing Instructions" section of this label.)
- 5. Operate the system at the same pressure and time interval established during the calibration.
- 6. Inject specified amount of *V-10170 2.13 SC* per acre for either a 20 to 40 minute period at the end of a regular irrigation set, or as a 20 to 40 minute injection as a separate application not associated with a regular irrigation to maximize retention of the insecticide by the foliage.
- 7. Stop injection equipment after treatment is completed. Continue to operate the system until the *V-10170 2.13 SC* solution has cleared the last sprinkler head. To ensure lines are flushed and free from remaining pesticides, a dye indicator may be injected into the lines to mark the end of the application period.

ORNAMENTALS

V-10170 2.13 SC is for use on ornamentals in commercial and residential landscapes and interior plantscapes. To assure optimum effectiveness, good spray coverage of the target plant is essential. Application can be made by foliar application or soil applications including soil injection, drenches and broadcast sprays. For optimum control, applications should be made prior to anticipated pest infestation.

V-10170 2.13 SC should be applied when threshold populations are observed. Do not wait until large insect populations have been established. Apply *V-10170 2.13 SC* in sufficient water to ensure uniform and thorough coverage of foliage. Thorough coverage is required for optimum control. To achieve adequate coverage, use proper spray pressures, nozzles, nozzle spacing, and water volume per acre.

Apply at planting or after planting to established plants. For optimum control on established plants, irrigate the treated area thoroughly but do not allow leaching and runout from containers for at least 10 days.

Do not apply more than a total of 24 fl oz. of *V-10170 2.13 SC* (0.4 lbs. active ingredient) per acre per season.

Choose lower rates for light infestations and/or smaller plants and higher rates for heavy infestations and/or larger plants.

RESTRICTIONS AND LIMITATIONS

- Do not apply more than a total of 24 fl oz of *V-10170 2.13 SC* (0.4 lb active ingredient clothianidin) per acre per season.
- Drench or broadcast applications will provide control of foliage feeding insects, however, control will not be achieved until the product has been taken up by the plant roots and translocated to the area where the insects are feeding.
- If making broadcast applications, water in with enough irrigation or rainfall to move the product into the zone where insects are active.
- For drench applications, use enough water to move the product into the zone where the insects are active.

Pests	V-10170 2.13 SC Application Rates (per 100 gals of water)	Special Instructions
		Uniformly apply the spray
Aphid	1.2 to 2.4 fl oz	solution to the point of drip.
		Reapply as needed but do not
Mealybug		exceed a total of 24 fl oz of V-
Whitefly	,	10170 2.13 SC (0.4 lbs active
		ingredient clothianidin) per acre
	4 0 1- 0 4 5	per season.
	1.8 to 2.4 fl oz	The emerint of energy collection
:		The amount of spray solution
		needed per acre will depend on the ornamental size and the
		density of the leaf canopy.
I	Mealybug	Mealybug

DRENCH APPLICATION* ON ORNAMENTALS					
PLANTS IN CONTAINERS	PESTS	V-10170 2.13 SC APPLICATION RATES	CONTAINER SIZE (INCHES)	NUMBER OF POTS	
Herbaceous	Aphid	1.2 to 2.4 fl oz	2	6000	
Species (one or			3	4000	
two plants per pot)	Mealybug	1.8 to 2.4 fl oz	4	3000	
	Whitefly		5	2400	
			6	2000	
			7	1700	
,		·	8	1500	
	2		9	1350	
			10	1200	
·			11	1100	
			12	1000	
Herbaceous	Aphid	1.2 to 2.4 fl oz	2 3	4000	
Species (three or				2680	
more plants per	Mealybug	1.8 to 2.4 fl oz	4	2000	
pot)	Whitefly		5	1600	
			6	1320	
Woody Perennials			7	1120	
			. 8	1000	
			9	880	
			10	800	
			11	720	
			12	640	

^{*}The specified amount of product should be mixed with a sufficient volume of water to evenly disperse the solution into the pots and to thoroughly wet the planting medium, without resulting in overflow or leaching and the loss of product. When watering treated pots, avoid watering to the point of overflowing or leaching for 10 days after application.

DRENCH APPLICATION* PLANTS IN CONTAINERS	PESTS	V-10170 2.13 SC APPLICATION RATES
Ornamental plants grow in flats, benches or beds	Aphid	1.2 to 2.4 fl oz per 7500 sq ft
	Mealybug Whitefly	1.8 to 2.4 fl oz per 7500 sq ft

^{*}The specified amount of product should be mixed with a sufficient volume of water to evenly disperse the solution into the pots and to thoroughly wet the planting medium, without resulting in overflow or leaching and the loss of product. When watering treated pots, avoid watering to the point of overflowing or leaching for 10 days after application.

NON-BEARING FRUIT AND NUT TREES (IN LANDSCAPES WHICH ARE NOT INTENDED FOR USE IN COMMERCIAL PRODUCTION)

V-10170 2.13 SC should be applied when threshold populations are observed. Do not wait until large insect populations have been established. Apply *V-10170 2.13 SC* in sufficient water to ensure uniform and thorough coverage of foliage. Thorough coverage is required for optimum control. To achieve optimum coverage, use proper spray pressures, nozzles, nozzle spacing and water volume per acre.

RECOMMENDED APPLICATION RATES ON NON-BEARING FRUIT AND NUT TREES (Post-Bloom Application)

PESTS	V-10170 2.13 SC APPLICATION RATES	SPECIAL INSTRUCTIONS
Aphid Apple Maggot Codling Moth Leafhopper Leafminers Oblique-Banded Leafroller Oriental Fruit Moth Plum Curculio Spotted Tentiform Leafminer Western Tentiform Leafminer	5.6 to 12 fl oz/A 1.4 to 3.0 fl oz/100 gals	Non bearing fruit and nut trees in landscapes are only for ornamental use. Do not harvest fruit or nuts from treated trees within one year of application. The amount of <i>V-10170 2.13 SC</i> per acre will depend on tree size, pest pressure and the volume of foliage present. The rate of water carrier per acre is based on a standard of 400 gallons of dilute spray per acre for large trees. Apply V-10170 2.13 SC in a full coverage spray to the point of drip. The spray volume will depend on tree size and density of the canopy. Repeat applications as needed to maintain control but do not apply more often than every 10 days.
		For control of Codling Moth and Oriental Fruit Moth: Apply V-10170 2.13 SC in a program of rotational sprays with other labeled insecticides. When using the 5.6 fl oz rate of V-10170 2.13 SC to control the Codling Moth and/or Oriental Fruit Moth, do not apply treatments less than a 14 day interval. For control of Leafminers and Leafrollers: Make the first application as soon as pollination is complete and bees are no longer present. Repeat application as necessary to maintain control. A single application may result in

- Do not apply more than 12 oz of *V-10170 2.13 SC* (0.2 lb ai) per acre per season.
- Do not apply treatments less than a 10 day interval.

TURFGRASS

V-10170 2.13 SC can be used as directed on grass grown in industrial, commercial and residential landscapes such as, but not limited to airports, athletic fields, cemeteries, commercial sod farms, golf courses, home lawns, parks and playgrounds.

V-10170 2.13 SC has sufficient residual activity to provide high levels of control when applications are made proceeding or during the egg laying activity of the target pests. The need for an application can be based on historical monitoring of the site, previous records or experiences, current season adult trapping or other methods. Optimum control will be achieved when applications are made to egg hatch of target pests, followed by sufficient irrigation or rainfall to move the active ingredient through the thatch.

V-10170 2.13 SC can be applied to turf at 12 to 24 fl oz per acre. The rate is dependent on the target pest(s), their stage of development and the desired level of control. Optimum results for grubs (larvae) will be achieved when applications are made just prior to or just after peak egg laying. Higher rates should be used when long residual control is desired or late season curative applications are made to turf already showing grub damage. Multiple applications can be made but do not exceed the maximum amount per year (24 fl oz per acre). Consult your local State Agricultural Experiment Station, State Extension Turf Specialists or other turf experts for specific information concerning the timing of application(s).

Apply V-10170 2.13 SC in sufficient water to provide optimal distribution in the treated area. The use of properly calibrated equipment normally used for the application of turfgrass insecticides is required. Use equipment which will produce a uniform, coarse droplet spray, using a low pressure setting to eliminate off target drift. Check calibration periodically to ensure that equipment is working properly.

Avoid mowing turfgrass until after irrigation or rainfall has occurred so that uniformity of application will not be affected.

PESTS	V-10170 2.13 SC APPLICATION RATES	
Annual Bluegrass Weevil	·	
Billbugs		
Black Turfgrass Ataenius		
Cinch Bugs*		
Sod Webworms		
White Grubs	·	
Asiatic Garden Beetle	12 to 24 fl oz/A (0.2 to 0.4 lb ai/A)	
European Chafer		
Green June Beetle		
Japanese Beetle		
Northern Masked Chafer		
Oriental Beetle		
Southern Masked Chafer		
Cutworms (suppression)*		
Mole Crickets (suppression)*	24 fl oz/A (0.4 lb ai/A)	

season.

*Use the higher rate for control of these insects.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Store in a dry place away from excessive heat.

Do not store near food or feed.

Store in original container only.

To close package, replace and tighten cap to form an airtight seal.

PESTICIDE DISPOSAL

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

CONTAINER DISPOSAL

Triple rinse (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or (if allowed by State and local authorities) by burning. If burned, stay out of smoke.

Copyright© 2008 by Valent U.S.A. Corporation.

Manufactured for:

Valent U.S.A. Corporation

P.O. Box 8025 Walnut Creek CA 94596 - 8025 www.valent.com

Made in U.S.A.

EPA Reg. No. 59639-150 EPA Est. No.

059639-00150.20080327.V10170 2.13SC.NOTIF.



March 27, 2008

V-10170 2.13 SC Insecticide EPA Reg. No. 59639-150 NOTIFICATION OPP ID. No. 306387

Mr. Kable Bo Davis
Insecticide Branch
Document Processing Desk (NOTIF)
Office of Pesticide Programs (7505P)
U.S. Environmental Protection Agency
One Potomac Yard - Room S4900
2777 S. Crystal Drive
Arlington, VA 22202-4501

Dear Mr. Davis:

Valent U.S.A. Corporation is notifying the agency of an update to our product label V-10170 2.13 SC Insecticide (EPA Reg. No. 59639-150) as follows:

 Addition of a pest "Leafhoppers" to the Potato Seed-Piece application on page 14.

I have enclosed the following for this label notification: the V-10170 2.13 SC label clearly marked in red, an OPP ID Form No. 306387 and a certification statement consistent with PR-Notice 98-10.

If you should have any questions please contact me at (925) 256-2791 or Eric Maurer at our Washington DC office at (202) 872-4682.

Sincerely,

Linda Obrestad Labeling Specialist

Registration and Regulatory Affairs

Enclosures