



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

April 15, 2022

Sue-Chi Shen
Sr. Regulatory Project Manager
Registration and Regulatory Affairs
Valent U.S.A. LLC
4600 Norris Canyon Road
P.O. Box 5075
San Ramon, CA 94538

Subject: Label Amendment – revising label to be identical to EPA Reg. No. 59639-245
Product Name: V-10170 5 FS Insecticide
EPA Registration Number: 59639-151
Application Date: August 12, 2021
Decision Number: 578622

Dear Ms. Shen:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

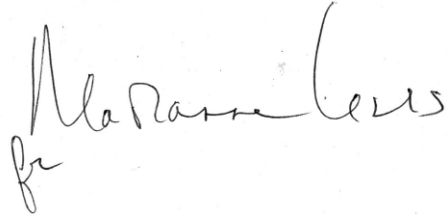
A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or 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.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

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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 Joseph Belsky at belsky.joseph@epa.gov or at (202) 566-2495.

Sincerely,

A handwritten signature in black ink, appearing to read "Venus Eagle" with a small "for" written below the name.

Venus Eagle, Product Manager 01
Invertebrate & Vertebrate Branch 3
Registration Division (7505P)
Office of Pesticide Programs

Enclosure



CLOTHIANIDIN GROUP 4A INSECTICIDE

ACCEPTED
04/15/2022
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 59639-151

[Bracketed information is optional text]
[Bracketed italicized information is note for reviewer]

V-10170 5 FS INSECTICIDE

AN INSECTICIDE SEED TREATMENT PRODUCT PROVIDING PROTECTION AGAINST LISTED INSECT PESTS

Table with 2 columns: Active Ingredient, By Wt.
Clothianidin* 47.8%
Other Ingredients 52.2%
Total 100.0%

*(E)-1-[(2-chlorothiazol-5-yl)methyl]-3-methyl-2-nitroguanidine

V-10170 5 FS Insecticide contains 5 lb clothianidin per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE NEXT PAGE [PANEL] [BOOKLET] FOR PRECAUTIONARY STATEMENTS [AND] [DIRECTIONS FOR USE]

NET CONTENTS _____

EPA Reg. No. 59639-151
EPA Est.
[Lot No.:]

FIRST AID	
If swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have a person sip a glass of water if able to swallow. • Do not induce vomiting unless told to by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
NOTE TO PHYSICIAN	
Treatment is supportive and symptomatic.	
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.	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

Harmful if swallowed.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, loaders, applicators and other handlers must wear: long-sleeved shirt and long pants, shoes plus socks and chemical resistant gloves made out of: barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, natural rubber ≥14 mils, polyethylene, polyvinyl chloride (PVC) ≥14 mils or Viton ≥14 mils.

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

USER SAFETY RECOMMENDATIONS
<p>Users should:</p> <ul style="list-style-type: none"> • Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. • Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. • Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to birds, mammals, and aquatic invertebrates. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment washwater or rinsate. Do not apply where runoff is likely to occur. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Apply this product only as specified on label.

Treated seed exposed on soil surface maybe hazardous to birds and mammals. Cover or collect spilled seed.

This compound is highly toxic to bees exposed directly (contact). Ensure that planting equipment is functioning properly in accordance with manufacturing recommendations to minimize seed coat abrasion during planting to reduce dust which can drift to blooming crops or weeds.

DIRECTIONS FOR USE

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

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval (REI). The requirements in this box only apply to uses of this product that are covered by the WPS.

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

Exception: Once the seeds are planted in soil, the WPS, under certain circumstances, allows workers to enter the treated area without restriction if there will be no worker contact with the soil subsurface or treated seed. PPE required for early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil, or water, is: long-sleeved shirt and long pants; shoes plus socks, and chemical resistant gloves.

RESISTANCE MANAGEMENT

For insecticide resistance management, please note that V-10170 5 FS Insecticide contains a Group 4A insecticide: clothianidin. Any insect population may contain individuals naturally resistant to V-10170 5 FS Insecticide and other Group 4A insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Appropriate resistance management strategies should be followed.

To delay insecticide/acaricide resistance, take the following steps:

- Rotate the use of V-10170 5 FS Insecticide or other Group 4A insecticides/acaricides within a growing season, or among growing seasons, with different groups that control the same pests.
- Use tank mixtures with insecticides/acaricides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
 - Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
 - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
 - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
 - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
 - The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide/acaricides use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological, and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Valent at 800-6-VALENT (682-5368).

Use Instructions

This product is for commercial seed treatment facilities as specified below. This product may only be used for on-farm application for cereal grains (except corn, rice, sorghum, and wild rice). Use V-10170 5 FS Insecticide only in accordance with specifications on this label utilizing mechanical, slurry, or mist-type seed treating equipment, provided that the equipment can be calibrated to accurately and uniformly apply the product to seed. Always mix product thoroughly before use.

As stated by regulations specified in 40 CFR 153.155, all seed treated with V-10170 5 FS Insecticide must be colored with an EPA-approved dye or colorant to visually distinguish seed that is treated with a pesticide. It is mandatory that such dye or colorant be added into the slurry mixture containing V-10170 5 FS Insecticide, prior to application. This regulation is necessary to prevent treated seed from accidental use as a food for man or feed for animals.

RESTRICTIONS

- Regardless of application method, do not apply more than 0.2 lb active ingredient clothianidin/A/calendar year.
- Do not use treated seed for feed, food, or oil processing.
- Store treated seed away from feeds and other foodstuffs.
- Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticide remain in ethanol by-products that are used in agronomic practice.
- Dispose of all excess treated seed. Left over treated seed may be double-sown around the headland or buried away from water sources in accordance with local requirements. Do not contaminate water bodies when disposing of planting equipment washwaters.
- Dispose of seed packaging in accordance with local requirements.
- This compound is highly toxic to bees exposed directly (contact). Ensure that planting equipment is functioning properly in accordance with manufacturing recommendations to minimize seed coat abrasion during planting to reduce dust which can drift to blooming crops or weeds.
- Do not re-use bags from treated seed to handle food or feed products.
- The compound is toxic to birds and mammals. Treated seeds exposed on soil surface may be hazardous to birds and mammals. Cover or collect treated seeds spilled during loading.
- Do not apply this product in hopper box or planter box at planting time.
- Do not use for on-farm seed treatment applications except for cereal grains (except corn, rice, sorghum and wild rice).
- All treated seeds must be planted at a minimum depth of 1 inch unless otherwise specified.
- Not for use on canola/rapeseed, rice, sorghum, or soybean in the state of California.

Seed Quality And Storage Of Treated Seed

Seed treatments applied to low vigor or poor quality seed or to mechanically damaged seed may result in loss of seed germination or reduced seedling vigor. To verify seed safety, treat a small portion of seed with the desired slurry mixture (V-10170 5 FS Insecticide alone or in combination with other commercial seed treatment products) prior to treatment of an entire seed lot. Utilize standard seed germination methodologies to determine and verify seed safety. Proper storage conditions of treated seed are to be

followed. Due to seed quality and seed storage conditions beyond the control of Valent U.S.A. LLC, no claims are made to guarantee the germination of carry-over treated seed.

Tank Mixing

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Accurate application of V-10170 5 FS Insecticide to seed is required for control of pests. Pre-test tank mixtures with other seed treatment products to verify formulation compatibility and to assure proper physical compatibility of products.

PRODUCT INFORMATION

V-10170 5 FS Insecticide (clothianidin) is a systemic insecticide seed treatment providing early season protection against listed insect pests of barley, broccoli, buckwheat, canola/rapeseed**, field corn, leafy greens (subgroup 4A, including amaranth, arugula, chervil, edible-leaved chrysanthemum, garland chrysanthemum, corn salad, garden cress, upland cress, dandelion, dock, endive, lettuce, orach, parsley, garden purslane, winter purslane, radicchio, spinach, New Zealand spinach, vine spinach), leek, pearl millet, popcorn, proso millet, oats, onion (bulb), onion (bunching), rice**, rye, sorghum**, soybean**, sugar beet, sweet corn, teosinte, triticale and wheat. This product provides protection under low to moderate corn rootworm pressure.

**Not for use in California.

ROTATIONAL CROP PLANT-BACK INTERVALS					
Crops Planted	Immediate Plant-back	30-Day Plant-back	4-Month Plant-back	8-Month Plant-back	12-Month Plant-back
Barley Broccoli Buckwheat Field Corn Leafy Greens (subgroup 4A) Leek Pearl Millet Popcorn Proso Millet Oats Onion (bulb) Onion (bunching) Rice** Rye Soybean** Sugar Beet Teosinte Triticale Wheat	Bulb Vegetables Canola Cereal Grains Cotton Fruiting Vegetables (including Cucurbits) Leafy Vegetables (including Brassica Vegetables) Rapeseed Root and Tuber Vegetables Soybean	Dry Beans Grasses Non-grass Animal Feeds		Sugarcane	Any crops without an earlier plant-back interval
Canola** Rapeseed** Sorghum** Sweet Corn	Bulb Vegetables Canola Cereal Grains Cotton Fruiting Vegetables (including Cucurbits) Leafy Vegetables (including Brassica Vegetables) Rapeseed Root and Tuber Vegetables Soybean	Dry Beans Grasses Non-grass Animal Feeds	Any crop without an earlier plant-back interval		

**Not for use in California.

ON-FARM APPLICATION

CEREAL GRAINS (Except Corn, Rice, Sorghum and Wild Rice)			
Crops	Insect Pests	V-10170 5 FS Insecticide Use Rates fl oz/100 lb seed	Rates/Instructions
Barley Buckwheat Pearl Millet Proso Millet Oats Rye Teosinte Triticale	Wireworm	0.25 – 1.79 (0.0098-0.07 lb ai/100 lb seed)	For wireworm seed protection, use a 0.25 fl oz/100 lb seed rate or higher, depending on field history and site populations. Use the higher rate to provide protection from heavy insect pressure.
	Aphid	0.75 – 1.79 (0.029-0.07 lb ai/100 lb seed)	Use the higher rate to provide increased length of protection and for heavy insect pressure.
	Grasshopper (Not for use in CA)	1.79 (0.07 lb ai/100 lb seed)	Grasshopper feeding damage to seedling plants under low to moderate insect pressure will be reduced when V-10170 5 FS Insecticide seed treatment is used. Treated seed may be planted as a 50 to 60 foot border around the edges of the crop field as a barrier to grasshoppers advancing into the interior of the field.
Wheat	Wireworm	0.25 – 1.79 (0.0098-0.07 lb ai/100 lb seed)	For wireworm seed protection, use a 0.25 fl oz/100 lb seed rate or higher, depending on field history and site populations. Use the higher rate to provide protection from heavy insect pressure.
	Aphid	0.75 – 1.79 (0.029-0.07 lb ai/100 lb seed)	Use the higher rate to provide increased length of protection and for heavy insect pressure.
	Grasshopper (Not for use in CA) Hessian Fly	1.79 (0.07 lb ai/100 lb seed)	Grasshopper feeding damage to seedling plants under low to moderate insect pressure will be reduced when V-10170 5 FS Insecticide seed treatment is used. Treated seed may be planted as a 50 to 60 foot border around the edges of the crop field as a barrier to grasshoppers advancing into the interior of the field. For Hessian Fly protection to wheat seedlings in the Fall season, use 1.79 fl oz/100 lb seed.
Restriction Regardless of application method, do not apply more than 0.2 lb active ingredient clothianidin/A/calendar year.			

COMMERCIAL SEED TREATMENT FACILITIES ONLY

BROCCOLI			
Insect Pests	V-10170 5 FS Insecticide Use Rates		
Aphids Bagrada Bug Cabbage Maggot Flea Beetle	fl oz/1000 seeds	ml/1000 seeds	g ai/1000 seeds
		0.0673	1.99
<p>Restriction Regardless of application type, do not apply more than 0.2 lb active ingredient clothianidin/A/calendar year.</p>			

BULB VEGETABLES				
Crop	Insect Pest	V-10170 5 FS Insecticide Use Rates		
		fl oz/1000 seeds	ml/1000 seeds	g ai/1000 seeds
Onion (bulb)	Onion Maggot Seedcorn Maggot Thrips	0.00666 – 0.01016	0.197 – 0.3	0.118 – 0.18
Leek		0.01129	0.3338	0.2
Onion (bunching)		0.00508 – 0.00598	0.15023 – 0.17694	0.09 – 0.106
<p>For onions (bulb and bunching) use the higher rate to provide increased length of protection and for heavy insect pressure.</p> <p>Restriction Regardless of application method, do not apply more than 0.2 lb active ingredient clothianidin/A/calendar year.</p>				

CANOLA/RAPESEED (Not for use in California)		
Insect Pests	V-10170 5 FS Insecticide Use Rates fl oz/100 lb seed	Rates/Instructions
Flea Beetle Wireworm	10.23 (0.4 lb ai/100 lb seed)	V-10170 5 FS Insecticide provides early season protection against listed insect pests.
Restriction Regardless of application method, do not apply more than 0.2 lb active ingredient clothianidin/A/calendar year.		

CEREAL GRAINS
(Except Corn, Rice, Sorghum and Wild Rice)

Crops	Insect Pests	V-10170 5 FS Insecticide Use Rates fl oz/100 lb seed	Rates/Instructions
Barley Buckwheat Pearl Millet Proso Millet Oats Rye Teosinte Triticale	Wireworm	0.25 – 1.79 (0.0098-0.07 lb ai/100 lb seed)	For wireworm seed protection, use a 0.25 fl oz/100 lb seed rate or higher, depending on field history and site populations. Use the higher rate to provide protection from heavy insect pressure.
	Aphid	0.75 – 1.79 (0.029-0.07 lb ai/100 lb seed)	Use the higher rate to provide increased length of protection and for heavy insect pressure.
	Grasshopper (Not for use in CA)	1.79 (0.07 lb ai/100 lb seed)	Treated seed may be planted as a 50 to 60 foot border around the edges of the crop field as a barrier to grasshoppers advancing into the interior of the field.
Wheat	Wireworm	0.25 – 1.79 (0.0098-0.07 lb ai/100 lb seed)	For wireworm seed protection, use a 0.25 fl oz/100 lb seed rate or higher, depending on field history and site populations. Use the higher rate to provide protection from heavy insect pressure.
	Aphid	0.75 – 1.79 (0.029-0.07 lb ai/100 lb seed)	Use the higher rate to provide increased length of protection and for heavy insect pressure.
	Grasshopper (Not for use in CA) Hessian Fly	1.79 (0.07 lb ai/100 lb seed)	Treated seed may be planted as a 50 to 60 foot border around the edges of the crop field as a barrier to grasshoppers advancing into the interior of the field.

Restriction
Regardless of application method, do not apply more than 0.2 lb active ingredient clothianidin/A/calendar year.

CORN				
Crops	Insect Pests	V-10170 5 FS Insecticide Use Rates		Rates/Instructions
		fl oz/ per 80,000 seeds	mg ai/kernel	
Corn Seed Field Pop Sweet Corn	Chinch Bug Corn Flea Beetle Corn Leaf Aphid Cutworm (black) Grape Colaspis Seedcorn Maggot Southern Corn Leaf Beetle Southern Corn Rootworm Southern Green Stinkbug Storage Pests, including: Indian Meal Moth Lesser Grain Borer Red Flour Beetle Rice Weevil Rusty Grain Beetle Sugarcane Beetle White Grub, including: European Chafer Larvae May/June Beetle Larvae Japanese Beetle Larvae Thrips Wireworm	1.13 to 2.26	0.25 to 0.5	Provide early seed protection against listed insect pests. For additional insect protection commercially treated seed with 0.25 mg ai/kernel rate of clothianidin may be over-treated with up to 0.25 mg/ai/kernel to equal total dose rate of 0.5 mg ai/kernel. For Storage Pests: Follow guidelines for control of stored grain insects, it is advised that seed with existing populations of storage pests be fumigated prior to treating and bagging of seed.
Field Corn Popcorn	Corn Rootworm (including: Mexican Northern Southern Western) Southern Corn Billbug	5.64	1.25	
Restriction Regardless of application method, do not apply more than 0.2 lb active ingredient clothianidin/A/calendar year.				

Leafy Greens (Subgroup 4A)				
Crop		V-10170 5 FS Insecticide Use Rates fl oz/100 lb seed ³	V-10170 5 FS Insecticide Use Rates mg ai/seed	Insect Pest
Short Season Crops	Spring Mix Lettuce, Lettuce	66.3 - 132.6	0.025 - 0.05	Aphids Leafminers (Suppression) Use the higher rate to provide increased length of protection and for heavy insect pressure.
	Baby Spinach	6.4 - 12.8		
	Amaranth	56.4 - 112.9		
	Arugula	36.7 - 73.4		
	Chervil	22.9 - 45.9		
	Edible-Leaved Chrysanthemum, Garland Chrysanthemum	56.4 - 112.9		
	Corn Salad	24.3 - 48.7		
	Garden Cress, Upland Cress	27.1 - 54.3		
	Dandelion	4.9 - 9.9		
	Dock	45.9 - 91.7		
	Endive	60.2 - 120.4		
	Orach	18.8 - 37.6		
	Parsley	41.5 - 83.0		
	Garden Purslane, Winter Purslane	153.6 - 307.2		
Radicchio	33.9 - 67.7			
Full Season Crops	Leaf Lettuce Romaine Lettuce Head Lettuce ⁴	1060.9 – 1989.2	0.4 - 0.75	
	Spinach New Zealand Spinach Vine Spinach	38.4	0.15	

³, fl oz/100 lb seeds is calculated based on the following seed size (seeds/pound): Lettuce, 469-933; Spinach, 45,360; Amaranth, 400,000; Arugula, 260, 000; Chervil, 162,532; Chrysanthemum, 400,000; Corn Salad, 172,400; Cress, 192,320; Dandelion, 35,000; Dock, 325,000; Endive, 426,400; Orach, 133,329; Parsley, 293,920; Purslane, 1,088,400; Radicchio, 240,000

⁴For high application rate of 0.75 mg ai/seed for lettuce, incorporate V-10170 5 FS Insecticide into pelleting process. Minimum pelleting build-up weight of 40 X is required for the highest rate of 0.75 g.ai/seed. The minimum pelleting build-up weight is allowed to be reduced proportionally (build up = 40X (target rate/0.75) for the lower rate. Do not apply the product on the raw seeds.

Important: Each fluid ounce of V-10170 5 FS Insecticide contains 17.7 g of clothianidin.

Restrictions

- Regardless of application method, do not apply more than 0.2 lb active ingredient clothianidin/A/calendar year

- Pelleted leaf, Romaine and head lettuce seeds treated with rates higher than 0.4 mg ai/seed must be planted at a minimum depth of ½ inch.

Rate Guide Chart for Leafy Greens (Subgroup 4A)	
Maximum seeding rates are based on the application rate and range from 120,000 to 3.6 million Seeds per acre	
Application Rate (mg ai/seed)	Maximum Seeding Rate (seeds/A)
0.025	3,600,000
0.05	1,800,000
0.15	600,000
0.4	225,000
0.75	120,000

RICE (Not for Use in California)		
Insect Pests	V-10170 5 FS Insecticide Use Rates fl oz/100 lb seed	Rates/Instructions
Aphid Black Bug Chinch Bug Grape Colaspis Rice Water Weevil Thrips	1.92 (0.075 lb ai/100 lb seed)	V-10170 5 FS Insecticide provides early season protection against listed insect pests.
Restrictions		
<ul style="list-style-type: none"> • V-10170 5 FS Insecticide is to be used only as a dry-seeded rice seed treatment. Cover the planted seed thoroughly by soil. • V-10170 5 FS Insecticide is not to be used in areas where rice/crawfish aquaculture practices are in place or in or near fish farms, shrimp, prawn or crab pond or nursery operations. • V-10170 5 FS Insecticide is not to be followed by a spray treatment of another neonicotinoid insecticide. Follow approved guidelines established for insect resistance management by consulting your local extension pest management expert. • Do not apply to Wild Rice. • Regardless of application method, do not apply more than a total of 0.2 lb active ingredient clothianidin/A/calendar year. 		

SORGHUM (Not for use in California)		
Insect Pests	V-10170 5 FS Insecticide Use Rates fl oz/100 lb seed	Rates/Instructions
Black Granulate Cutworm Chinch Bug Corn Leaf Aphid English Grain Aphid Greenbug Seed Corn Maggot White Grub Wireworm Yellow Sugarcane Aphid	5.1 to 6.4 (0.2 to 0.25 lb ai/100 lb seed)	V-10170 5 FS Insecticide provides protection against listed insect pests. Use the higher rate to provide increased length of protection and for heavy insect pressure.
Restriction Regardless of application method, do not apply more than 0.2 lb active ingredient clothianidin/A/calendar year.		

SOYBEAN (Not for use in California)			
Insect Pests	V-10170 5 FS Insecticide Use Rates fl oz/140,000 seeds	V-10170 5 FS Insecticide Use Rates mg ai/seed	Rates/Instructions
Aphids Bean Leaf Beetle Grape Colaspis Leafhoppers Pea Leaf Weevil Seed Corn Maggot Three Cornered Alfalfa Hopper Thrips White Grubs Wireworm	0.87	0.11	V-10170 5 FS Insecticide provides protection against listed insect pests.
Restrictions			
<ul style="list-style-type: none"> • Regardless of application method, do not apply more than 0.2 lb active ingredient clothianidin/A/calendar year. • Do not graze or feed soybean forage and hay to livestock. 			

SUGAR BEET		
Insect Pests	V-10170 5 FS Insecticide Use Rates fl oz/ per 100,000 pelleted seeds	Rates/Instructions
Black Bean Aphid Cutworms Flea Beetle Garden Springtail Sugar Beet Leafhopper Sugar Beet Leafminer Sugar Beet Root Maggot Wireworm	3.4 (0.6 mg ai/seed)	V-10170 5 FS Insecticide provides protection against listed insect pests. Protection against beet leafhopper injury aids in reducing potential spread of beet curly top virus, vectored by beet leafhopper. Apply V-10170 5 FS Insecticide to seed with a coating system giving a minimum weight gain build-up of approximately 30%.
Restriction		
Regardless of application method, do not apply more than 0.2 lb active ingredient clothianidin/A/calendar year.		

SEED BAG TAG

The Federal Seed Act requires that the container of seed treated with V-10170 5 FS Insecticide must be labeled with the following information:

- This seed has been treated with V-10170 5 FS Insecticide which contains clothianidin.
- Do not use treated seed for feed, food, or oil processing.

In addition, the U.S. Environmental Protection Agency requires the following statements on the container of seed treated with V-10170 5 FS Insecticide:

- Regardless of application method, do not apply more 0.2 lb active ingredient clothianidin/A/year.
- V-10170 5 FS Insecticide is to be used only as a dry-seeded rice seed treatment. Cover the planted seed thoroughly by soil.
- Do not plant V-10170 5 FS Insecticide treated rice in areas where rice/crawfish aquaculture practices are in place or in or near fish farms, shrimp, prawn or crab pond or nursery operations.
- Rapeseed greens and seed grown or harvested from V-10170 5 FS Insecticide treated seed must not be used for feed or human consumption. Rapeseed grown and harvested from V-10170 5 FS Insecticide treated seed is only for industrial uses and cannot be used for edible oil or any human/feed consumption.
- Store treated seed away from feeds and other foodstuffs.
- Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticide remain in ethanol by-products that are used in agronomic practice.
- Wear long sleeved shirt, long pants and chemical resistant gloves when handling treated seed.
- Dispose of all excess treated seed. Left over treated seed may be double-sown around the headland or buried away from water sources in accordance with local requirements. Do not contaminate water bodies when disposing of planting equipment washwaters.
- This compound is highly toxic to bees exposed directly (contact). Ensure that planting equipment is functioning properly in accordance with manufacturing recommendations to minimize seed coat abrasion during planting to reduce dust which can drift to blooming crops or weeds.
- Dispose of seed packaging or containers in accordance with local requirements. Do not use empty seed bags for any other purpose.
- The compound is toxic to birds and mammals. Treated seeds exposed on soil surface may be hazardous to birds and mammals. Cover or collect treated seeds spilled during loading.
- Pelleted leaf, Romaine and head lettuce seeds treated with rates higher than 0.4 mg ai/seed must be planted at a minimum depth of 1/2 inch. All other seeds must be planted at a minimum depth of 1 inch.
- Do not graze or feed soybean forage and hay to livestock.
- Not for use on canola/rapeseed, rice, sorghum and soybean in California.

- **Rotational Crop Plant Back Intervals:** Areas planted with treated seed of barley, broccoli, buckwheat, field corn, leafy greens (subgroup 4A), leek, pearl millet, popcorn, proso millet, oats, onion (bulb), onion (bunching), rice**, rye, sugar beet, soybean**, teosinte, triticale, and wheat may be replanted immediately with bulb vegetables, canola, cereal grains, cotton, fruiting vegetables (including cucurbits), leafy vegetables (including brassica vegetables), rapeseed, root and tuber vegetables and soybean. These areas may also be replanted after 30 days with dry beans, grasses and non-grass animal feeds. These areas may also be replanted after 8 months with sugarcane. Do not plant any other crop in the treated area for at least one year after these treated seeds are planted.
- **Rotational Crop Plant Back Intervals:** Areas planted with treated seed of canola**, rapeseed**, sorghum** and sweet corn may be replanted immediately with bulb vegetables, canola, cereal grains, cotton, fruiting vegetables (including cucurbits), leafy vegetables (including brassica vegetables), rapeseed, root and tuber vegetables, and soybean. These areas may also be replanted after 30 days with dry beans, grasses, and non-grass animal feeds. Do not plant any other crops in the treated area for at least 4 months after these treated seeds are planted.

**Not for use on canola/rapeseed, rice, sorghum and soybean in California.

- For broccoli, this seed has been treated with 1.1925 g clothianidin per 1,000 seeds.
- For bulb onion, this seed has been treated with XX [0.118 - 0.180] g clothianidin per 1,000 seeds.
- For bunching onion, this seed has been treated with XX [0.09 - 0.106] g clothianidin per 1,000 seeds.
- For leek, this seed has been treated with 0.2 g clothianidin per 1,000 seeds.
- For canola, this seed has been treated with 0.4 lb ai clothianidin per 100 lb seed.
- For barley, buckwheat, pearl millet, proso millet, oats, rye, teosinte, triticale wheat, this seed has been treated with a rate of XX [0.0098 - 0.07] fl oz/100 lb seed which will result in XX lb ai clothianidin per 100 lb seed.
- For field corn, popcorn, seed corn, sweetcorn, this seed has been treated with XX [0.25 - 1.25] mg clothianidin per seed.
- For Spring Mix Lettuce, Lettuce, Baby Spinach, Amaranth, Arugula, Chervil, Edible-Leaved Chrysanthemum, Garland Chrysanthemum, Corn Salad, Garden Cress, Upland Cress, Dandelion, Dock, Endive, Orach, Parsley, Garden Purslane, Winter Purslane, Radicchio, this seed has been treated with XX [0.025 - 0.05] mg clothianidin per seed.
- For leaf lettuce, head lettuce, Romaine lettuce, this seed has been treated with XX [0.4 - 0.75] mg clothianidin per seed.
- For spinach, New Zealand Spinach, vine spinach, this seed has been treated with 0.15 mg clothianidin per seed.
- For rice, this seed has been treated with 0.075 lb ai clothianidin per 100 lb seed.
- For sorghum, this seed has been treated with a rate of XX [5.1-6.4] fl oz/100 lb seed which will result in XX lb ai clothianidin per 100 lb seed.
- For soybean, this been treated with 0.11 mg clothianidin per seed.
- For sugar beet, this seed has been treated with 0.6 mg clothianidin per seed.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Store in a cool, dry secured storage area.

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 HANDLING

[Statement for containers equal to or less than 5 gallons]

Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available; otherwise dispose of in a sanitary landfill or by other procedures allowed by State and local authorities.

[Statement for rigid nonrefillable/greater than 5 gallon containers]

Nonrefillable container. Do not reuse or refill this container. Clean container 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. Offer for recycling, if available; otherwise dispose of in a sanitary landfill or by other procedures allowed by State and local authorities.

[Statement for all high-density polyethylene (HDPE) refillable containers]

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Offer for recycling, if available; otherwise dispose of in a sanitary landfill or by other procedures allowed by State and local authorities.

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

IMPORTANT: Read the entire Label including this section titled Risks of Using this Product, Limited Warranty and Disclaimer, 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. 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. 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.

The Directions for Use of this product must be followed carefully. 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. To the extent consistent with applicable law, 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 AND DISCLAIMER

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, 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. 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 later, so that an immediate inspection of the affected property and growing crops can be made.

To the extent consistent with applicable law, if Buyer does not notify Valent of any claims, in such period, it shall be barred from obtaining any remedy.

NO AMENDMENTS

Valent and Seller offer this product, and Buyer accepts it, subject to the foregoing **Risks of Using This Product, Limited Warranty and Disclaimer, 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.

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Manufactured For:

Valent U.S.A. LLC

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(800)-682-5368

Made in U.S.A.

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EPA Est.

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