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

OFFICE OF
CHEMICAL SAFETY
AND POLLUTION PREVENTION

Anna Armstrong
Nichino America, LLC
4550 New Linden Hill Rd, Ste 501
Wilmington, DE 19808

FEB 2, 2012

Subject: Vetica Insecticide, EPA Reg. No. 71711-32
Date of Registrant Submission: May 20, 2011
Decision: 449536

Dear Ms. Armstrong:

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

Two (2) copies of the finished labeling must be submitted prior to releasing each product for shipment. If you have any questions regarding this letter, please contact Samantha Hulkower at (703) 603-0683.

Sincerely,

Mark Suarez
Product Manager 13
Insecticide Branch
Registration Division (7505P)

Enclosure: Copy of Label Master Label, and Cucurbit Supplemental Label Stamped "Accepted" and "Revised Buprofezin Cucurbit PHI Reduction" Memo

SUPPLEMENTAL LABEL

GROUP 28

Vetica® Insecticide

EPA Reg. No. 71711-32

For Use on Cucurbit Vegetables

ACCEPTED
FEB 2, 2012
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 71711-32

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This labeling and the EPA approved container label must be in the possession of the user at the time of application.

The use of adjuvants is prohibited when using the labeled pre-harvest interval of 1-day for cucurbits.

New use directions appear on this supplemental labeling that supersede the Section 3 container label.

NOTICE: Before using this product, read the First Aid, Precautionary Statements, Conditions of Sale and Warranty, and complete Directions for Use found on the container labeling. All applicable directions, restrictions, and precautions on the EPA registered label are to be followed.

CUCURBIT VEGETABLES (CROP GROUP 9)

Chayote (fruit); Chinese waxgourd (Chinese preserving melon); Citron melon; Cucumber; Gherkin; Edible gourd (includes, hyotan, cucuzza, hechima, Chinese okra); *Momordica* spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber); Muskmelon (hybrids and/or cultivars of *Cucumis melo* includes true cantaloupe, cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, snake melon); Pumpkin; Squash (includes summer squash types such as crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini and winter squash types such as acorn squash, butternut squash, calabaza, hubbard squash, spaghetti squash); Watermelon (includes hybrids and/or varieties of *Citrullus lanatus)*

Pest	Formulated Product Rate/Acre (lb ai/Acre)	Directions for Use
Armyworms Cabbage looper Corn earworm Cutworm species Melonworm Pickleworm Rindworm species Squash vine borer Tobacco budworm	12.0 to 17.0 fl oz/acre	• For ground application, use a minimum of 20 gallons of water per acre. • For aerial application, use a minimum of 5 gallons of water per acre. • Do not make more than 3 applications per crop cycle. • Allow at least 7 days between applications. • Do not apply more than 38.0 fl oz per acre per crop cycle. • Pre-Harvest Interval: 1 day
Leafhoppers Whiteflies	14.0 to 17.0 fl oz/acre	
Leafhoppers (suppression) Whiteflies (suppression)	12.0 to 13.0 fl oz/acre	

NICHINO AMERICA
Nichino America, Inc.
4550 New Linden Hill Road
Wilmington, DE 19808
888-740-7700

GROUP	28	16	INSECTICIDES

NICHINO AMERICA

VETICA® Insecticide

ACCEPTED
FEB 2, 2012
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 71711-32

Marketing Brand: VETICA® insecticide

ACTIVE INGREDIENTS:

Flubendiamide: N^2 –(1,1-dimethyl-2-methylsulfonylethyl)-3-iodo-N^1-{2-methyl-4-[1,2,2,2-tetrafluoro-1-(trifluoro-methyl)ethyl]phenyl}phthalamide	3.8%
Buprofezin: 2-*tert*-butylimino-3-isopropyl-5-phenyl-1,3,5-thiadiazinan-4-one	26.4%
OTHER INGREDIENTS:	69.8%
TOTAL	**100.0%**

Contains 0.33 lbs. flubendiamide and 2.33 lbs. buprofezin as active ingredient per U.S. gallon

EPA Reg. No. 71711-32
EPA Est. No. 67545-AZ-1

KEEP OUT OF REACH OF CHILDREN
CAUTION

FIRST AID	
If in eyes	• Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call a poison control center or doctor for treatment advice.
If on skin or clothing	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
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 1-800-348-5832 for emergency medical treatment information. In case of fire or spills, information may be obtained by calling 1-800-424-9300.	

NET CONTENTS: _____

Active Ingredients Made in Japan and China; Formulated and Packaged in USA

NICHINO AMERICA, INC.
4550 New Linden Hill Rd., Suite 501
Wilmington, DE 19808
888-470-7700

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear protective eyewear (safety glasses, goggles, or face shield). Wash hands thoroughly with soap and water after handling and before eating, drinking, and chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

User Safety Recommendations

Users should:

- Wash hands thoroughly 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.

ENGINEERING CONTROLS STATEMENT

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4–6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates. For terrestrial uses, 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 washwater or rinsate.

Ground Water Advisory

Flubendiamide and its degradate NNI-0001-des-iodo have properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Surface Water Advisory

Flubendiamide and its degradate NNI-0001-des-iodo may also impact surface water quality due to runoff of rainwater. This is especially true for poorly draining soils and soils with shallow groundwater. These chemicals are classified as having a medium potential for reaching both surface water and aquatic sediment via runoff several months or more after application. A well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams and springs, as required under the Directions for Use, will reduce the potential for loading of flubendiamide and its degradate NNI-0001-des-iodo from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

DIRECTIONS FOR USE

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

USE RESTRICTIONS

- Apply this product only as specified on this label.
- Do not contaminate food or feedstuffs.
- **This product is not for sale, sale into, distribution, and/or use in Nassau and Suffolk counties of New York State.**
- Aerial application is prohibited in New York State.
- This product cannot be applied within 100 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch) in New York State.
- Do not apply this product through any type of irrigation system.
- Do not apply by chemigation.
- 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 treated area during application.
- Use in enclosed structures, such as greenhouses or planthouses, is not permitted unless specified otherwise by state-specific supplemental labeling.
- For any use requirement specific to your State or Tribe, consult the agency in your State responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours following application.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls worn over short-sleeved shirt and short pants
- Socks
- Chemical-resistant footwear
- Protective eyewear (such as safety glasses, goggles, or face shield)
- Chemical-resistant gloves (such as nitrile or butyl)

PRODUCT INFORMATION

VETICA® insecticide is formulated as a suspension concentrate containing two active ingredients, flubendiamide (0.33 lbs) and buprofezin (2.33 lbs) with a total of 2.66 lbs per gallon. This product is used for the control of Lepidopteran and Hemipteran insect pests. VETICA insecticide is active on lepidoptera by larval ingestion leading to a rapid cessation of feeding followed by death of the insect. Vetica is also effective by contact action against the nymphal stages of listed hemipteran pests (whiteflies, scales, mealybugs, planthoppers, and leafhoppers) by inhibiting chitin biosynthesis, suppressing oviposition of adults, and reducing viability of eggs. VETICA insecticide should be used in a program with other products to provide season long protection.

VETICA insecticide works primarily through contact action and ingestion, so good spray coverage is necessary for maximum results. Mix with sufficient water and apply as a foliar spray to obtain uniform coverage. Dense foliage or excessive growth will often prevent adequate coverage; adjust spray volumes

accordingly. Treat plants when pests are immature or at a susceptible stage and populations are building, before crop damage occurs.

APPLICATION DIRECTIONS

Applications should be made immediately after the spray solution is prepared. Thorough spray coverage is essential for effective control. Applications may be made with high or low volume spray equipment that provides thorough coverage of the plant. Apply with properly calibrated spray equipment. For best results, apply when pest populations are beginning to build, before reaching economic thresholds. Consult your local agricultural advisor or state cooperative extension service for recommendations.

BUFFER ZONES

Vegetative Buffer Strip

Construct and maintain a minimum 15-foot wide vegetative filter strip of grass or other permanent vegetation between field edge and down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries; and commercial fish farm ponds). Only apply products containing flubendiamide onto fields where a maintained vegetative buffer strip of at least 15 feet exists between the field edge and down gradient aquatic habitat. For guidance, refer to the following publication for information on constructing and maintaining effective buffers: Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. USDA, http://www.in.nrcs.usda.gov/technical/agronomy/newconbuf/pdf

CROP ROTATIONAL RESTRICTIONS:

CROP/CROP GROUP	PLANTBACK TIMING
All crops listed on this label	0 days following application
Leafy Brassica Greens (Subgroup 5B)	30 days following application
Cereal grains	30 days following application
Alfalfa; Peanuts; Safflower; Soybean; Sugarcane; Sunflower; Tobacco; Vegetables - Legume (except Snap Beans); Root, Tuber and Bulb	60 days following application
All other crops	9 months following application

RESISTANCE MANAGEMENT

VETICA insecticide contains two active ingredients with different modes of action. Flubendiamide is classified by IRAC in Group 28-ryanodine receptor modulators. Buprofezin is classified by IRAC in Group 16- chitin biosynthesis inhibitors. Cross-resistance between these classes of chemistry and other modes of action has not been documented. However, repeated use of the same crop protection product may increase development of resistant strains of insects. Rotate the use of VETICA insecticide with alternate mode of action insecticides. Consult your local horticultural advisor for the most appropriate alternative products.

Unless directed otherwise in the specific crop/insect sections of the label, the following practices are recommended to prevent or delay the development of insecticide resistance to VETICA insecticide:

- Do not apply VETICA insecticide or other Group 28 insecticides to successive generations of the same insect pest. Multiple successive applications of VETICA insecticide are acceptable if they are used to treat a single insect generation.
- Avoid using less than labeled rates when applied alone or in tank mixtures.
- Target most susceptible insect life stages, whenever possible.
- Incorporate IPM techniques into the overall pest management program.

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

MIXING DIRECTIONS
Shake well before using. Read and follow all label directions for each tank mix product prior to any tank mixing with VETICA insecticide. This product can be mixed with other registered pesticides for use on labeled crops or sites, in accordance with the most restrictive use directions and precautions. No labeled dose rate should be exceeded. VETICA insecticide cannot be mixed with any product containing a label prohibition against such mixing.

VETICA INSECTICIDE ALONE: Begin with clean equipment. Fill spray tank with ¾ of the amount of water needed for the intended application and then turn on agitation. Pour recommended amount of product on the surface of water in the spray tank. Add the balance of the water to the spray tank with agitation running. Keep agitation running during filling and spraying operations. If spraying must be stopped before emptying the sprayer, resume agitation before spraying the remainder of the load.

VETICA INSECTICIDE TANK MIXTURES: Follow all use directions as listed above under **VETICA INSECTICIDE ALONE** with the following exception: after the VETICA insecticide is thoroughly mixed and the tank is ¾ full, add the recommended amount of wettable powder, soluble powder, flowable, emulsifiable concentrate, or soluble liquid product, **while maintaining agitation**. Then continue adding water to the tank to achieve the desired level, while maintaining agitation.

VETICA INSECTICIDE TANK MIXTURES WITH PRODUCTS IN WATER-SOLUBLE PACKAGING: Follow all use directions as listed above under **VETICA INSECTICIDE ALONE** with the following exception: add the desired number of water-soluble bags to the tank (if allowed by their label instructions) at the same time the VETICA insecticide is added. **Note:** If using products in water soluble packaging, do not tank mix with products that contain boron, chromium, or other micronutrients.

VETICA insecticide is physically and biologically compatible with many registered pesticides, fertilizers or micronutrients. If you have no experience with the combination you are considering, you should conduct a test to determine physical compatibility. To determine physical compatibility, add the recommended proportions of each chemical with the same proportion of water, as will be present in the chemical supply tank, into a suitable container, mix thoroughly and allow to stand for five minutes. If the combination remains mixed, or can be readily re-mixed, the mixture is considered physically compatible.

SPRAY DRIFT REDUCTION MANAGEMENT
Do not apply when wind speed favors drift beyond the area intended for treatment. The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator is responsible for considering all of these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator.

Importance of Droplet Size:
An important factor influencing drift is droplet size. Small droplets (<150 - 200 microns) drift to a greater extent than large droplets. Within typical equipment specifications, applications should be made to deliver the largest droplet spectrum that provides sufficient control and coverage. Use only Medium or coarser spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

Ground Applications:
Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application. For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy. For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two (2) rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

Aerial Applications:

The spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used, and must not exceed 75% of the wing span or 80% rotor diameter. Flight speed and nozzle orientation must be considered in determining droplet size. Spray must be released at the lowest height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety. When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind. Making applications at the lowest height that is safe reduces the exposure of the droplets to evaporation and wind.

Wind Speed Restrictions:
Drift potential increases at wind velocities of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size, canopy and equipment specifications determine drift potential at any given wind speed. Only apply this product if the wind direction favors on-target deposition. Do not apply when wind velocity exceeds 15 mph and avoid gusty and windless conditions. Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.

Restrictions During Temperature Inversions:
Do not make ground applications during temperature inversions. Drift potential is high during temperature inversions. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by stable air and increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by mist or ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source. Smoke that layers and moves laterally near the ground surface in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical mixing.

APPLICATION RATE CHART FOR VETICA Insecticide

CUCURBIT VEGETABLES (CROP GROUP 9)

Chayote (fruit); Chinese waxgourd (Chinese preserving melon); Citron melon; Cucumber; Gherkin; Edible gourd (includes, hyotan, cucuzza, hechima, Chinese okra); *Momordica* spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber); Muskmelon (hybrids and/or cultivars of *Cucumis melo* includes true cantaloupe, cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, snake melon); Pumpkin; Squash (includes summer squash types such as crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini and winter squash types such as acorn squash, butternut squash, calabaza, hubbard squash, spaghetti squash); Watermelon (includes hybrids and/or varieties of *Citrullus lanatus)*

Pest	Rate/Acre	Notes and Use Restrictions
Armyworms Cabbage looper Corn earworm Cutworm species Melonworm Pickleworm Rindworm species Squash vine borer Tobacco budworm	12.0 to 17.0 fl oz	• For ground application, use a minimum of 20 gallons of water per acre. • For aerial application, use a minimum of 5 gallons of water per acre. • Do not make more than 3 applications per crop cycle. • Allow at least 7 days between applications. • Do not apply more than 38.0 fl oz per acre per crop cycle. • Pre-Harvest Interval (PHI): 1 day. • The use of an adjuvant is restricted for use with cucurbits.
Leafhoppers Whiteflies	14.0 to 17.0 fl oz	
Leafhoppers (suppression) Whiteflies (suppression)	12.0 to 13.0 fl oz	

LEAFY VEGETABLES (CROP GROUP 4) - EXCEPT BRASSICA VEGETABLES

Amaranth (leafy amaranth, Chinese spinach, tampala); Arugula (Roquette); Cardoon; Celery; Celtuce; Chervil Chinese celery; Chrysanthemum (edible-leaved and garland); Corn salad; Cress (garden); Cress (upland, yellow rocket, winter cress); Dandelion; Dock (sorrel); Endive (escarole); Florence fennel (sweet anise, sweet fennel, Finocchio); Lettuce (head and leaf); Orach; Parsley; Purslane (garden and winter); Radicchio (red chicory); Rhubarb; Spinach [including New Zealand and vine (Malabar spinach, Indian spinach)]; Swiss chard

Pest	Rate/Acre	Notes and Use Restrictions
Alfalfa looper Armyworms Cabbage looper Corn earworm Cutworm species Diamondback moth European corn borer Green cloverworm Imported cabbage worm Saltmarsh caterpillar Tobacco budworm Tomato hornworm	12.0 to 17.0 fl oz	• For ground application, use a minimum of 20 gallons of water per acre. • For aerial application, use a minimum of 5 gallons of water per acre. • Do not make more than 3 applications per crop cycle. • Allow at least 7 days between applications. • Do not apply more than 38.0 fl oz per acre per crop cycle. • Pre-Harvest Interval (PHI): 7 days
Leafhoppers Whiteflies	14.0 to 17.0 fl oz	
Leafhoppers (suppression) Whiteflies (suppression)	12.0 to 13.0 fl oz	

HEAD and STEM BRASSICA (CROP SUBGROUP 5A)
Broccoli, Brussels sprouts, Cabbage, Cauliflower, Cavalo broccolo, Chinese broccoli, Chinese cabbage (Napa), Chinese mustard cabbage, Kohlrabi

Pest	Rate/Acre	Notes and Use Restrictions
Alfalfa looper Alfalfa caterpillar Armyworms Cabbage looper Cabbage webworm Corn earworm Cross-striped cabbageworm Cutworm species Diamondback moth Garden webworm Green cloverworm Imported cabbage worm Leafhoppers (suppression) Planthoppers (suppression) Saltmarsh caterpillar Southern cabbageworm Tobacco budworm Tomato hornworm Whiteflies	10.0 to 20.0 fl oz	• For ground application, use a minimum of 20 gallons of water per acre. • For aerial application, use a minimum of 5 gallons of water per acre. • Do not make more than 2 applications per crop cycle. • Allow at least 7 days between applications. • Do not apply more than 40 fl oz per acre per crop cycle. • Pre-Harvest Interval (PHI): 1 day

FRUITING VEGETABLES (CROP GROUP 8) PLUS OKRA Eggplant, Groundcherry, Pepino, Pepper (*Capsicum* spp., including bell pepper, chili pepper, cooking pepper, pimento, sweet pepper), Okra, Tomatillo, Tomato		
Pest	**Rate/Acre**	**Notes and Use Restrictions**
Armyworms Cabbage looper Celery leaftier Cutworm species Diamondback moth European corn borer Garden webworm Melonworm Pickleworm Rindworm species Saltmarsh caterpillar Southwestern corn borer Tobacco budworm Tobacco hornworm Tomato fruitworm Tomato hornworm Tomato pinworm	12.0 to 17.0 fl oz	• For ground application, use a minimum of 20 gallons of water per acre. • For aerial application, use a minimum of 5 gallons of water per acre. • Do not make more than 3 applications per crop cycle. • Allow at least 5 days between applications. • Do not apply more than 38.0 fl oz per acre per crop cycle. • Pre-Harvest Interval (PHI): 1 day
Leafhoppers Planthoppers Whiteflies	14.0 to 17.0 fl oz	
Leafhoppers (suppression) Planthoppers (suppression) Whiteflies (suppression)	12.0 to 13.0 fl oz	

SNAP BEANS (Bush beans, Green beans, Snap beans, String beans, Wax beans)		
Pest	**Rate/Acre**	**Notes and Use Restrictions**
Armyworms Bean leafroller Bean leaf skeletonizer Cabbage looper Corn earworm Cutworm species European corn borer Garden webworm Gray hairstreak caterpillar Green cloverworm Lesser cornstalk borer Saltmarsh caterpillar Soybean looper Yellow woollybear caterpillar	12.0 to 17.0 fl oz	• For ground application, use a minimum of 20 gallons of water per acre. • For aerial application, use a minimum of 5 gallons of water per acre. • Do not make more than 3 applications per crop cycle. • Allow at least 14 days between applications. • Do not apply more than 38.0 fl oz per acre per crop cycle. • Pre-Harvest Interval (PHI): 14 days
Leafhoppers Planthoppers Whiteflies	13.6 to 17.0 fl oz	

LOW-GROWING BERRY (CROP SUBGROUP 13-07G) – EXCEPT CRANBERRY Strawberry, Bearberry, Bilberry, Blueberry (lowbush), Cloudberry, Lingonberry, Muntries, Partridgeberry		
Armyworms Apple pandemis Bollworms Budworms Corn earworm Cutworm species Garden tortrix Leafrollers Leaftiers Lesser cornstalk borer Light brown apple moth Loopers Orange tortrix Saltmarsh caterpillar Tobacco budworm Tomato fruitworm Whiteflies	12.0 to 18.5 fl oz	• For ground application, use a minimum of 100 gallons of water per acre. • For aerial application, use a minimum of 10 gallons of water per acre. • Do not make more than 2 applications per crop cycle. • Allow at least 10 days between applications. • Do not apply more than 37 fl oz per acre per crop cycle. • Pre-Harvest Interval (PHI): 3 days

COTTON		
Pest	**Rate/Acre**	**Notes and Use Restrictions**
Armyworms Cabbage looper Cotton bollworm Cotton leafworm Cotton leafperforator Cutworm species European corn borer Omnivorous leafroller Saltmarsh caterpillar Soybean looper Tobacco budworm	24.0 to 36.0 fl oz	• For ground application, use a minimum of 10 gallons of water per acre. • For aerial application, use a minimum of 5 gallons of water per acre. • For early season use, when cotton is less than 10 inches in height, apply in a directed spray using ground spray equipment. • Do not make more than 3 applications per crop cycle. • Allow at least 28 days between applications. • Do not apply more than 36.0 fl oz per acre per crop cycle. • Pre-Harvest Interval (PHI): 28 days
Whiteflies	14.0 to 17.0 fl oz	

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original container, unopened in a cool, dry place.

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

CONTAINER DISPOSAL: Non-refillable container. Do not reuse or refill this container. Triple rinse, or equivalent, promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State or local authorities, by burning. If burned, stay out of smoke.

IMPORTANT: READ BEFORE USE

By using this product, user or buyer accepts the following conditions, warranty, disclaimer of warranties and limitations of liability.

CONDITIONS: The directions for use of this product are believed to be accurate and must be followed carefully. However, because of extreme weather and soil conditions, use methods and other factors beyond the control of Nichino America, Inc. (NAI), it is impossible for NAI to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. To the extent consistent with applicable law, all such risks are assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of NAI is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, NAI disclaims any liability whatsoever for incidental or consequential damages, including, but not limited to, liability arising out of breach of contract, express or implied warranty (including warranties of merchantability and fitness for a particular purpose), tort, negligence, strict liability or otherwise.

LIMITATIONS OF LIABILITY: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT THE ELECTION OF NICHINO AMERICA, THE REPLACEMENT OF PRODUCT.

LABEL CODE: D-102 112311