



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

JUL 3 1 2013

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Ms. Carrie M. Tackema Cleary Chemicals, LLC 11901 S. Austin Ave. Alsip, IL 60803

Subject: Notification to Rise Language found in the Storage and Disposal Section of the Label

Dear Ms. Tackema:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated June 28, 2013 for:

EPA Registration 228-717

KilterTM Insecticide

The Registration Division (RD) has conducted a review of this request of applicability under PRN 98-10 and finds that the label changes(s) requested falls within the scope of PRN 98-10. The label has been date-stamped "Notification" and will be placed in our records.

If you have any questions, call me at 703 305-5409 or at daniel.dani@epa.gov.

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Dani Daniel

Registration Division (7504P)

Insecticide/Rodenticide Branch

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	United States	3 U ZUIS	☐ Registr		OPP Identifier Number
EPA Enviro	nmental Protection	Agency	☐ Amend		
	Washington, DC 2046	0	☑ Other:		·
	Application	for Pestic	ide - Section	 	· · · · · · · · · · · · · · · · · · ·
1. Company/Product Number 228-717		2. EPA Prod V e	uct Manager nus Eagle	. 3	. Proposed Classification
4. Company/Product (Name) Kilter™ Insecticide		PM#			None Restricted
5. Name and Address of Applicant (In	clude ZIP Code)	6. Expedit	ed Review. In	accordance wit	th FIFRA Section
Nufarm Americas, Inc.				s similar or ider	ntical in composition
11901 S. Austin Ave. Alsip, IL 60803		and labelin		•	
Aisip, IL 00003	!	Product Na	NO ame		
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		Section -			-
Amendment – Explain below.			Final printed lab	els in response to	Agency letter dated
Resubmission in response to A	gency letter dated	[Me Too" Applica	tion	
Notification - Explain below.			Other - Explain b		
Explanation: Use additional	page(s) if necessary.	(For Section	I and Section I	II.)	
This notification is consistent with the p to the labeling or the confidential staten false statement to EPA. I further under product may be in violation of FIFRA ar	nent of formula of this prod stand that if this notification	10 and EPA reguent. I understar	ulations at 40 CFR id that it is a violation int with the terms of	152.46, and no oth on of 18 U.S.C. Se f PR Notice 98-10 a	ner changes have been made c. 1001 to willfully make any and 40 CFR 152.46, this
	,,	Section -	111		
Material This Product Will Be Pac Child-Resistant Packaging	kaged In: Unit Packaging		Vater Soluble Pack	aging T	2. Type of Container
Yes*	Yes	} [Yes		Metal
⊠ No	⊠ No		⊠ No		Plastic
1			"Yes"	No. per	Glass
*Certification must	Onit Packaging wgt.	ontainer F	ackage wgt.	container	Paper
be submitted	·				Other (Specifiy)
3. Location of Net Contents Informa	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	tail Container		K_3	Label Directions
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Contact Point (Complete items direct Name	ectly below for identification Title	n of individual to	pe contacted, if ne		es this application) ne No. (Include Area Code)
Carrie M. Tackema	,	ılatory Mana	ger	reiepno	(919) \$79-2528
I certify that the statements I have m I acknowledge that any knowingly fal both under applicable-law.		achments there			6. Date Application 'ਨ੍ਵcaived (Stamped)

3. Title

4. Date

Regulatory Manager

June 28, 2013

2. Signature

4. Typed Name



Nufarm Americas Inc.

3/27

11901 S. Austin Avenue Alsip, IL 60803

Phone: 708-377-1330 Fax: 708-377-1333

4020 Aerial Center Parkway, Suite 101 Morrisville, NC 27560

Phone: 919-379-2510 Fax: 919.467.5923 www.us.nufarm.com

Via Courier Delivery

June 28, 2013

Ms. Venus Eagle, PM#1 USEPA (7504P) Document Processing Desk (NOTIF) Room S4900, One Potomac Yard 2777 S. Crystal Drive Arlington, VA 22202

Subject:

Kilter[™] Insecticide EPA Reg. No. 228-717 Notification per PRN 98-10

Dear Ms. Eagle:

On behalf of Nufarm Americas Inc., enclosed please find a Notification for the above-reference product. The purpose of this Notification is to revise certain language found in the storage and disposal section of the label.

Also enclosed in support of this Notification are the following:

- Application for Pesticide Registration;
- Proposed product labeling, one copy with changes highlighted. CD-rom which includes the pdf version of the clean copy label.

Should you have any questions or require additional information, please contact me at (919)379-2528 or by email at cerc core.

Sincerely,

Carrie M. Tackema Regulatory Manager

Enclosure(s)

RESTRICTED USE PESTICIDE

DUE TO PRIMARY EYE TOXICITY AND TOXICITY TO FISH AND AQUATION ORGANISMS

FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS, OR PERSONS UNDER THEIR DIRECT SUPERVISION, AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.

Sale, use and distribution of this product in Nassau and Suffolk counties in the State of New York is prohibited.

GROUP 3 & 4A INSECTICIDE

Kilter[™] Insecticide

FOR AGRICULTURAL USE TO CONTROL LISTED PESTS.

ACTIVE INGREDIENTS:

KEEP OUT OF REACH OF CHILDREN DANGER - PELIGRO

PRECAUCION AL USUARIO: Si usted no puede leer o entender ingles, no use este product hasta que la etiqueta le haya sido explicada ampliamente. (TO THE USER: If you cannot read or understand English, do not use this product until the label has been fully explained to you.)

SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300 For Medical Emergencies Only, Call (877) 325-1840

EPA REG. NO. 228-717 EPA EST. NO. MANUFACTURED FOR NUFARM AMERICAS INC. 150 HARVESTER DRIVE BURR RIDGE, IL 60527 800-455-2000



NET CONTENTS GAL. (___Liters)
[Designation as "NONREFILLABLE" or "REFILLABLE" for containers > 5 GAL]

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^{*}Contains 1.34 pounds of imidacloprid per gallon

^{**}Contains 1.00 pounds of lambda-cyhalothrin per gallon This product is a Suspension Concentrate.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER - PELIGRO

Corrosive. Causes irreversible eye damage. May be fatal if swallowed. Causes skin irritation. Avoid contact with eyes, skin or clothing. Wear protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Skin exposure may also result in a sensation described as tingling, itching, burning, or prickly feeling. Onset may occur immediately to 4 hours after exposure and may last 2 to 30 hours, without damage. Wash exposed areas once with soap and water. Relief from the skin sensation may be obtained by applying an oil-based cream.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category F on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Protective eyewear (goggles, face shield or safety glasses)
- Long-sleeved shirt and long pants
- · Chemical-resistant footwear plus socks, and
- Chemical-resistant gloves.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. **DO NOT** reuse them. 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.

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.

USER SAFETY RECOMMENDATIONS

User should:

- Wash hands thoroughly with soap and water after handling and 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.

	FIRST AID
IF IN EYES	Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
IF SWALLOWED	 Call a poison control center or doctor immediately for treatment advice. DO NOT give any liquid to the person. DO NOT induce vomiting unless told to do so by the poison control center or doctor. DO NOT give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of a gastric lavage. Contains petroleum distillate – vomiting may cause aspiration pneumonia.

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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 1-877-325-1840 for emergency medical treatment information.

Physical-Chemical Hazards

DO NOT store near or use with oxidizing agents.

Environmental Hazards

This pesticide is extremely toxic to fish and 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 apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. DO NOT contaminate water when disposing of equipment washwater.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. **DO NOT** apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Additional information may be obtained by consulting your Cooperative Extension service.

Imidacloprid demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

DIRECTIONS FOR USE

Restricted Use Pesticide

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

RESTRICTIONS FOR ALL USES

- DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only
 protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult
 the agency responsible for pesticide regulation.
- DO NOT apply this product or allow it to drift onto blooming plants or weeds while bees are foraging in/or adjacent to the treated area.
- DO NOT use this product in nurseries, greenhouses, plant propagation houses, or any plants grown for use as transplants.
- . This product is classified as restricted use in the state of New York.
- . Sale, use and distribution of this product in Nassau and Suffolk counties in the State of New York is prohibited.
- This label must be in possession of the user at the time of application.
- DO NOT apply when the wind velocity exceeds 15 mph. Only apply this product if the wind direction favors ontarget deposition.
- DO NOT apply more than 0.5 lb. the active ingredient Imidacloprid per acre, per year regardless of formulation or method of application.
- DO NOT apply more than the maximum seasonal total for Lambda-Cyhalothrin when each product is used alone or as a component of this product.

Maximum Application Rate

DO NOT exceed the maximum application rate of ai per acre per crop season allowed by using other gamma-cyhalothrin, lambda-cyhalothrin or imidacloprid containing products The maximum rate allowed for use of gamma-cyhalothrin, lambda cyhalothrin and imidacloprid products used during the same crop growing season can be derived from the maximum rates in the following table:

CROP	Gamma-Cyhalothrin ^{1, 3} (lb/ai/acre/season)	Lambda-Cyhalothrin ^{1, 3} (lb/ai/acre/season)	Imidacloprid ² (lb/ai/acre/season)
Cole Crops	0.12	0.24	0.24
Cotton	0.10	0.20	0.31
Fruiting Vegetables	0.18	0.36	0.24
Legume Vegetables	0.06	0.12	0.13
Lettuce	0.15	0.30	0.24
Peanuts	0.06	. 0.12	0.13
Pome Fruits	0.10	0.20	0.50
Potato	0.06	0.12	0.20
Soybean	0.04	0.08	0.14
Stone Fruit - Apricot, Nectarine, Peach	0.10	0.20	0.30
Stone Fruits- Cherries, Plums, Plumcot, Prune	0.10	0.20	0.50 °
Sweet Potato, Tuberous & Corm Vegetables	0.06-	0.12	0.13 ε
Tobacco	0.045	0.09	0.28
Tree Nuts	0.08	0.16	0.36

¹ The following is applicable if both lambda-cyhalothrin and gamma-cyhalothrin are used on a crop during the same crop growing season:

When the maximum application rate of lambda-cyhalothrin is reached alone no gamma-cyhalothrin product can be used and when the maximum application rate of gamma-cyhalothrin is reached alone no lambda-cyhalothrin product can be used. If used in combination, the amounts of each that can be used can be calculated as shown in the following examples [the gamma-cyhalothrin quantity can be multiplied by 2 to calculate the total ai based upon lambda-cyhalothrin]:

Example 1: If the maximum use rate for lambda-cyhalothrin = 0.12 lb ai/acre/year and 0.06 lb ai has been applied, (0.12 - 0.06) + 2 = 0.03 lb ai of gamma-cyhalothrin could be applied during the remainder of the crop use season. Example 2: If the maximum use rate for gamma-cyhalothrin = 0.06 lb ai/acre/year and 0.03 lb ai has been applied, (0.06 - 0.03) X 2 = 0.06 lb ai of lambda-cyhalothrin could be applied during the remainder of the crop use season.

When the maximum application rate of imidacloprid is reached no imidacloprid product can be used.

Includes any lambda-cyhalothrin or gamma-cyhalothrin product approved for crop uses.

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 24 hours.

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

- · Coveralls over short sleeve shirt and short pants,
- Chemical-resistant gloves, Category F (such as nitrile rubber, butyl rubber, barrier laminate, or Viton® ≥ 14 mils),
- · Chemical-resistant footwear plus socks, and
- · Chemical-resistant headgear for overhead exposure.

APPLICATION INSTRUCTIONS

Shake well before using.

Apply as a directed or broadcast foliar spray. Thorough coverage of foliage is necessary without runoff for optimum insecticidal efficacy. Use adequate spray volumes, properly calibrated application equipment and spray adjuvant if necessary to obtain thorough coverage. Failure to provide adequate coverage and retention of this product on leaves and fruit may result in loss of insect control or delay in onset of activity. Apply this product with properly calibrated ground or aerial application equipment. Minimum spray volumes, unless otherwise specified on crop specific application instructions sections, are 10 gallons/Acre by ground applications and 5 gallons/Acre through aerial equipment. This product may also be applied by overhead chemigation (see additional Chemigation Directions for Use section below) if allowed in crop specific application instruction section.

RESISTANCE MANAGEMENT

Some insects are known to develop resistance to insecticides after repeated use. As with any insecticide, the use of this product should conform to resistance management strategies established for the use area.

This product contains a Group 3 Insecticide and a Group 4A Insecticide (lambda-cyhalothrin, belonging to the pyrethroid class of chemistry is a Group 3 Insecticide / imidacloprid, belonging to the neonicotinoid class of chemistry is a Group 4A Insecticide). Insect biotypes with acquired or inherent resistance to Group 3 and/or Group 4A may eventually dominate the insect population if Group 3 and/or Group 4A insecticides are used repeatedly as the predominant method of control for targeted species. This may result in partial or total loss of control of those species by this product or other Group 3A or Group 4A Insecticides.

One of the active ingredients in this product Insecticide is a member of the neonicotinoid chemical class. Avoid using a block of more than three consecutive applications of this product and/or other Group 4A products having the same or similar mode of action.

Following a neonicotinoid block of treatments, Nufarm strongly encourages the rotation to a block of applications with effective products of a different mode before using additional applications of neonicotinoid products. Using, a block

rotation or windowed approach, along with other IPM practices, is considered an effective use strategy for preventing or delaying an insect pest's ability to develop resistance to this class of chemistry.

Contact your local extension specialist, certified crop advisor and/or product manufacturer for additional insect resistance management recommendations. Also, for more information on Insect Resistance Management (IRM), visit the Insecticide Resistance Action Committee (IRAC) on the web at http://irac-online.org/.

ROTATIONAL CROPS

Treated areas may be replanted with any crop specified on an imidacloprid label as specified below. There are no rotational crop restrictions based on lambda-cyhalothrin.

ROTATIONAL PLANT-BACK INTERVALS*

IMMEDIATE PLANT-BACK

All crops on this label plus the following crops not on this label; barley, canola, Christmas trees, corn (field, sweet and pop), cranberry, Globe artichoke, mustard seed, onion and bulb vegetables, rapeseed, strawberry, sorghum, sugarbeet, sunflower, tobacco, watercress, wheat and all crops from the following Crop Groups as recognized and defined by EPA. LEAFY PETIOLE VEGETABLES - Crops of Crop Subgroup 4B

LEGUME VEGETABLES - Crops of Crop Group 6 including: Edible Podded plus Succulent Shelled, Peas and Beans CUCURBIT VEGETABLES - Crops of Crop Group 9

BUSHBERRY and CANEBERRY - Crops of Crop Group 13

HERBS - Crops of Crop Subgroup 19A

ROOT VEGETABLES - Crops of Crop Subgroup 1B

TROPICAL FRUIT - Including: Acerola, Alemoya, Avocado, Biriba, Black sapote, Canistel, Cherimoya, Custard apple, Feijoa, Llama, Jaboticaba, Guava, Longan, Lychee, Mamey sapote, Mango, Papaya, Passionfruit, Persimmon, Pulasan, Rambutan, Sapodilla, Soursop, Spanish lime, Star apple, Starfruit, Sugar apple, Wax jambu____

30-DAY PLANT-BACK

Cereals (including buckwheat, millet, oats, rice, rye, and triticale), safflower

12-MONTH PLANT-BACK

All other crops

*Cover crops for soil building or erosion control may be planted any time, but do not graze or harvest for food or feed.

FOLIAR APPLICATIONS

Apply using properly calibrated ground sprayers, fixed- or rotary-winged aircraft or through properly designed, sprinkler-type, chemigation equipment. Thorough and uniform coverage of plants, is required for pest control. Use of spray nozzles that provide medium-sized droplets are encouraged to reduce drift potential. For all aphids, apply as pest population begins to build and prior to build up of damaging levels. See **Spray Drift Management** section below for application quidelines on all application methods.

Ground equipment applications must be made in a minimum of 10 gallons/A. A non-ionic surfactant (NIS) is recommended for this use. See Adjuvant section below.

Aerial applications must be made in a minimum of 2 gallons/A. A crop-oil-concentrate (COC) is recommended for this use. See Adjuvant section below.

Chemigation applications must be made as concentrated as possible. For best results apply at 100% input for center pivots or 0.10 inch (2,716 gallons) up to 0.15 inch (4,073 gallons) of water/A for other systems. See additional directions and precautions given below. Use only the highest labeled rate for chemigation applications.

TANK MIXES

Unless otherwise prohibited on this label or the label of an intended tank mix product, this product may be applied in combination with any pesticide registered for the same crop, timing, and method of application. Follow the most restrictive label statements of various tank mix products used.

Prepare no more spray mixture than is needed for the immediate operation. Thoroughly clean spray equipment before using this product. Maintain agitation throughout the spraying operation. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area. Keep product container tightly closed when not in use.

COMPATIBILITY

Before full-scale mixing of this product with foliar-applied adjuvants, fungicides, herbicides and insecticides/miticides and fertilizers determine the compatibility of the proposed mixture.

.

, e.c.

Adjuvants

The use of an adjuvant may improve deposition, coverage and pest control.

- A high quality, non-ionic surfactant (NIS) is recommended for ground applications.
- A crop-oil-concentrate (COC) is recommended for aerial applications.
- All adjuvants regardless of their composition must be used according to the adjuvants manufacturer's use directions.
- DO NOT use petroleum-based and other non-emulsifiable oils with this product.

Mixing order

When pesticide or fertilizer mixtures are needed, add products in the following order:

- · Products packaged in PVA;
- · Wettable-powders-or wettable granules;
- This product or other flowable type products;
- Emulsifiable concentrates;
- Fertilizer or micro-nutrient solutions

Ensure good agitation as each component is added. DO NOT add an additional component until the previous is thoroughly mixed. If a fertilizer or micro-nutrient solution is used, a fertilizer/pesticide compatibility agent may be needed. Maintain constant agitation during both mixing and application to ensure uniformity of spray mixture.

Compatibility Note (Jar Test)

Test compatibility of the intended mixture before adding this product to the spray or mix tank. Add proportionate amounts of each ingredient in the appropriate order, to a pint or quart jar, cap, shake for 5 minutes, and let set for 5 minutes. Poor mixing or formation of precipitates that do not readily redisperse indicates an incompatible mixture that should not be used. For further information, contact your local Nufarm representative.

IMPORTANT

PESTICIDE TANK MIXES MAY INCREASE THE RISK OF MIXING INCOMPATIBILITIES, REDUCED EFFECTIVENESS AND/OR CAUSE CROP INJURY OR LOSS. ANY LIABILITY FOR LOSS, INJURY OR DAMAGE RESULTING FROM A TANK MIXTURE NOT SPECIFIED ON THIS LABEL OR IN MANUFACTURER'S SUPPLEMENTAL LABELING DISTRIBUTED FOR THIS PRODUCT IS SPECIFICALLY DISCLAIMED BY MANUFACTURER.

MIXING WITH OTHER SUBSTANCES MAY INCREASE THE RISK OF MIXING INCOMPATIBILITIES, REDUCED EFFECTIVENESS AND/OR CAUSE CROP INJURY OR LOSS. ANY LIABILITY FOR LOSS, INJURY OR DAMAGE RESULTING FROM A MIXTURE NOT SPECIFIED ON THIS LABEL OR IN MANUFACTURER'S SUPPLEMENTAL LABELING DISTRIBUTED FOR THIS PRODUCT IS SPECIFICALLY DISCLAIMED BY MANUFACTURER.

SPRAY DRIFT MANAGEMENT

BUFFER ZONES

Vegetative Buffer Strip

Construct and maintain a minimum 10-foot-wide vegetative filter strip of grass or other permanent vegetation between the 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 this product onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field 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, NRCS. 2000. Fort Worth, Texas. 21 pp.

www.in.nrcs.usda.gov/technical/agronomy/newconbuf.pdf

In the State of New York, a 25 ft. vegetated, non-cropped buffer strip untraversed by drainage tiles must be maintained between a treated field and a coastal salt marsh or stream that drains into a coastal salt marsh, for both aerial or ground application. For aerial applications, the 25 ft. vegetated non-cropped buffer strip for runoff protection would be part of the larger 150 ft. buffer strip (or 450 ft. buffer strip for ULV application) required for spray drift.

Buffer Zone for Ground Application (groundboom, overhead chemigation, or airblast)

DO NOT apply within 25 feet of aquatic habitats (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes; natural ponds; estuaries; and commercial fish ponds).

Buffer Zone for ULV Aerial Application

DO NOT apply within 450 feet of aquatic habitats (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes; natural ponds; estuaries; and commercial fish ponds).

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Buffer Zone for Non-ULV Aerial Application

DO NOT apply within 150 feet of aquatic habitats (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes; natural ponds; estuaries; and commercial fish ponds).

SPRAY DRIFT REQUIREMENTS

Wind Direction and Speed

Only apply this product if the wind direction favors on-target deposition.

DO NOT apply when the wind velocity exceeds 15 mph.

Temperature Inversion

DO NOT make aerial or ground applications into temperature inversions.

Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

Droplet Size

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.

Additional Requirements for 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 rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

Additional Requirements for Aerial Applications

The spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor 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 downward. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

CHEMIGATION

Sprinkler Irrigation Application

Apply this product at rates and timing described in the **Specific Use Directions** provided on this label. As local recommendations differ, consult your local State Extension Service or other local experts for recommendations on adjuvant or diluent types, adjuvant rates and mixing instructions.

Check the irrigation system to insure uniform application of water to all areas. Thorough coverage of foliage is required for good control. Good agitation in the pesticide supply tank should be maintained prior to and during the entire application period.

Apply by injecting the specified rate of this product into the irrigation system using a metering device that will introduce a constant flow and by distributing the product to the target area in 0.1-0.2 acre inch of water. In general, use the least amount of water required for proper distribution and coverage. It is recommended that the product be injected into the main irrigation line ahead of a right angle turn in the line to insure adequate dispersion or mixing in the irrigation water. Once the application is completed, flush the entire irrigation and injection system with clean water before stopping the system.

In addition to the above instructions, if application is being made during a normal irrigation set of a stationary sprinkler, the specified rate of this product for the area covered should be injected into the system only during the end of the irrigation set for sufficient time to provide adequate coverage and product distribution.

DO NOT apply this product through an irrigation system 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 out of the year.

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Sprinkler Irrigation Application Directions & Restrictions

- A. Apply this product only through (sprinkler including center pivot, lateral move, end tow, side [wheel] roll, traveler, big gun, solid set, or hand move) irrigation system(s). DO NOT apply this product through any other type of irrigation system.
- Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
- C. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
- D. DO NOT connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- E. 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.
- F. 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.
- G. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- H. 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.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- J. 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.
- K. 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.
- L. Any alternatives to the above required safety devices must conform to the list of EPA-approved alternative devices.
- M. DO NOT apply when wind speed favors drift beyond the area intended for treatment or non-uniform distribution of treated water.
- N. DO NOT apply through chemigation systems connected to public water systems.

SPECIFIC USE DIRECTIONS AGRICULTURAL USES

For Foliar Applications

Apply specified rate per acre as a broadcast or directed foliar spray as pest populations begin to build. Thorough uniform coverage is necessary to achieve optimal control. A spray adjuvant may be used to improve coverage. This product may not knock down established and heavy insect populations. Two applications may be required to achieve control. Scout fields and retreat if needed. This product may be tank mixed with other insecticides for knockdown of pests or for improved control of other pests.

Pests	napa), Chinese mustard cab		Remarks
For control of: Alfalfa Looper Cabbage Looper Cabbage Webworm Cutworm species Imported Cabbageworm Southern Cabbageworm Aphid species³ Armyworm Beet Armyworm¹,³ Corn Earworm Diamondback Moth³ Fall Armyworm¹ Flea Beetle species Grasshopper species Japanese Beetle (Adult) Leafhopper species Meadow Spittlebug Plant Bug species including Lygus species³ Spider Mite species² Stink Bug species	1.9 – 2.5 2.5 – 3.8	Apply before pests reach damaging levels. Apply as required by scouting, at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds. Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of foliage. When applying by ground, apply in a minimum of 10 gallons of water / acre. When applying by air, apply in a minimum of 2 gallons of	¹ For control of first and second instars only. ² Suppression only. ³ See Resistance statement under Use Requirements and Precautions.
Thrips species ² Vegetable Weevil (Adult) Yellowstriped Armyworm		water / acre.	
Whitefly species ³	3.8	1	

Restrictions

DO NOT apply more than 23.0 fl. oz. of this product per acre per crop season.

DO NOT apply within 7 days of harvest (PHI - 7 Days).

DO NOT apply within 5 days of previous application (Minimum retreatment interval - 5 Days).

*Not for use on crops grown for seed unless allowed by state-specific 24(c) labeling.

Pests	Fluid ounces/Acre	Application Methods	Remarks
For control of:		Apply before pests reach	For control of first
Cutworm species		damaging levels. Apply as	and second instars
Soybean Thrips	1.9 – 3.0	required by scouting, at	only.
Tobacco Thrips	·	intervals of 7 or more days.	
Aphids		Timing and frequency of	² Suppression only.
Banded-winged whitefly		applications should be based	1.
Bollworm/Budworm (ovicidal effect)	1	upon insect populations	³ See Resistance
Cabbage Looper	3.0 – 3.8	reaching locally determined	statement under
Cotton Fleahopper	l l	economic thresholds.	Use Requirement
Cotton Leafperforator	1		and Precautions.
Cotton Leafworm	1	Apply with ground or air	j .
Green Stink Bug	İ	equipment using sufficient	^⁴ For control before
Lygus Bug species ³	1	water and application methods	the larva bores into
Pink Bollwrom	Ì	to obtain full coverage of	the plant stalk.
Saltmarsh Caterpillar	1	foliage.	
Southern Green Stink Bug		1	
Beet Armworm ^{1,3}	l	When applying by ground,	
Boll Weevil	}	apply in a minimum of 10	1
Cotton Bollworm	1	gallons of water / acre.	
European Corn Borer⁴	3.8 – 5.0		
Fall Armyworm	į	When applying by air, apply in	
Sweetpotato Whitefly ^{2,3}	İ	a minimum of 3 gallons of	l
Tobacco Budworm ³		water / acre.	
Twospotted Spider Mite ²			l

Aphids: For best results, use the higher listed rate after first bloom or on rapidly increasing populations.

Bollworm/budworm: Under light infestation levels 2.6 fl. oz. of product per acre may be applied in conjunction with intense field monitoring. When applied according to label this product also provided ovicidal control of unhatched Heliothine species eggs.

For boll weevil control: spray on a 3 - 5 day schedule.

Adjuvants: Insect control can be improved with the use of a non-ionic surfactant or COC. DO NOT use binder or sticker type surfactants.

Restrictions

- DO NOT apply more than 25.6 fl. oz. of this product acre per crop season.
- DO NOT apply within 21 days of harvest. (PHI 21 Days).

 DO NOT apply within 7 days of previous application (Minimum retreatment interval 7 Days).
- DO NOT graze livestock in treated areas.
- DO NOT apply more than a total of 6 applications of the active ingredient per season.

Regardless of formulation or method of application, apply no more than 0.5 lb active ingredient of Imidacloprid per acre per season, including seed treatment soil and foliar uses.

FRUITING VEGETABLES* - Foliar:

Crops of Crop Group 8 including: Eggplant, Ground cherry, Pepino, Peppers (including bell, chili, cooking, pimento and sweet), Tomatillo, Tomato

Pepper weevil: Apply specified dosage of this product by ground equipment only, timing applications prior to a damaging pest population becoming established. Good coverage of foliage and fruit is necessary for optimal control. Applications of this product must be incorporated into a full-season program, where alternations of effective products from multiple classes of chemistry and different modes of actions are utilized in a blocked or windowed approach. For additional information, please contact your Nufarm representative, Extension Specialist or crop advisor.

Restrictions

DO NOT apply more than 23.0 fl. oz. of this product per acre per crop season.

DO NOT apply within 5 days of harvest (PHI - 5 Days).

DO NOT apply within 5 days of previous application (Minimum retreatment interval – 5 Days).

*Not for use on crops grown for seed unless allowed by state-specific 24(c) labeling.

LEGUME VEGETABLES* - Beans & Peas, except Soybean - Foliar:

Crops of Crop Group 6 (Except soybean, dry) including: Edible Podded and Succulent Shelled Pea and Bean and Dried Shelled Pea and Bean, Bean (Lupinus spp., includes grain lupin, sweet lupin, white lupin, and white sweet lupin), Bean (Phaseolus spp., includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean), Bean (vigna spp., includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean cowpea, Crowder pea, moth bean, mung bean, rice bean, Southern pea, urd bean, yardlong bean), Pea (Pisum spp. includes dwarf pea, edible pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea), Other Beans and Peas [Broad bean (fava), chickpea (garbanzo bean), Guar, Jackbean, Lablab bean (hyacinth

For control of: Cutworm species Green Cloverworm Imported Cabbageworm Mexican Bean Beetle Saitmarsh Caterpillar Velvetibean Caterpillar Aphid species' Armyworm² Bean Leaf Beetle Blister Beetle species (Adult) Cucumber Beetle species (Adult) Curculio and Weevil species' (foliage & pod feeding adults & larvae) European Corn Borer' Fela Ampyworm² Flea Beetle species (Adult) Fleahopper species Grasshopper species Gersen Clovery Beetle species Gersen Clovery Beetle species Gom Eanworm Com Rootworm Beetle species (Adult) Cucumber Beetle species (Adult) Cucumber Beetle species (Adult) Cucumber Beetle species (Adult) Fleahopper species Grasshopper species Grasshopper species Gersen Clovery Beetle species (except Soybean Looper) Meadow Spittlebug Painted Lady Butterfly (Larva) Plant Bug species including Lygus species¹ Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' Stalk Borer' St	bean, lentil, Pigeon pea, soybean (immature		A b b b	
Cutworm species Green Cloverworm Imported Cabbageworm Mexican Bean Beetle Salimarsh Caterpillar Aphid species Armyworm Bean Leaf Beetle Bister Beetle species Corn Rootworm Beetle species (Adult) Cucrubia and Weevil species' (foliage & pod feeding adults & larvae) European Corn Borer' Fell Armyworm² Flea Beetle species (Adult) Fleahopper species Leaffier species Stalk Borer' Stink Bug species Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds. Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gallons of water per acre. Sobes not include Western Flower Thrips. Sobes not include Western Flower Thrips. Sobes not include Western Flower Thrips. Thrips. Thrips. Thrips. Thrips. Thrips. Thrips. Thrips. Thrips. Thrips. The larmyworm ² Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gallons of water per acre. Sobes not include Western Flower Thrips. Thrips. Thrips.	Pests	Fluid ounces/Acre	Application Methods	Remarks
Beet Armyworm ^{3,4} Leafminer species ^{3,4} 3.8	Cutworm species Green Cloverworm Imported Cabbageworm Mexican Bean Beetle Saltmarsh Caterpillar Velvetbean Caterpillar Alfalfa Caterpillar Aphid species Armyworm² Bean Leaf Beetle Bean Leafskeletonizer Blister Beetle species Corn Earworm Corn Rootworm Beetle species (Adult) Cucumber Beetle species (Adult) Curculio and Weevil species¹ (foliage & pod feeding adults & larvae) European Corn Borer¹ Fall Armyworm² Flea Beetle species (Adult) Fleahopper species Grasshopper species Japanese Beetle (Adult) Leafhopper species Leaftier species Looper species Leaftier species Leaftier species Leafter species Leafter species Leafter species Leafter species Looper species Leafter Species Looper species Leafter Species Looper species Tolat Bug species Threecornered Alfalfa Hopper Thrips species Tobacco Budworm⁴		damaging levels. Apply as required by scouting, at intervals of 7 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds. Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gallons of	the larva bores into the plant stalk or pods. ² Use higher listed rates for large larvae. ³ Suppression only. ⁴ See Resistance statement under Use Requirements and Precautions. ⁵ Does not include Western Flower
Soybean Looper ^{3,4}	Beet Armyworm ^{3,4} Leafminer species ^{3,4} Lesser Cornstalk Borer ³	3.8		

Restrictions

DO NOT apply more than 12.4 fl. oz. of this product per acre per crop season.

For edible podded and succulent shelled legume vegetables, DO NOT apply within 7 days of harvest (PHI - 7 Days). For dried shelled legume vegetables, DO NOT apply within 21 days of harvest (PHI - 21 Days).

DO NOT apply within 7 days of previous application (Minimum retreatment interval - 7 Days).

For succulent and dried shelled peas and beans, DO NOT graze livestock in treated areas or harvest vines for forage or

*Not for use on crops grown for seed unless allowed by state-specific 24(c) labeling.

Pests	Fluid ounces/Acre	Application Methods	Remarks
For control of: Alfalfa Looper Cabbage Looper Cutworm species Green Cloverworm Imported Cabbageworm Saltmarsh Caterpillar	1.9 – 2.5	Apply before pests reach damaging levels. Apply as required by scouting, at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations	¹ For control of first and second instars only. ² Suppression only. ³ See Resistance
Aphid species ³ Armyworm Beet Armyworm ^{1,3} Corn Earworm Diamondback Moth ³ European Corn Borer ⁴ Fall Armyworm ¹ Flea Beetle species Grasshopper species Japanese Beetle (Adult) Leafhopper species Meadow Spittlebug Plant Bug species including Lygus species ³ Southern Armyworm Spider Mite species ² Stink Bug species Tobacco Budworm ³ Vegetable Weevil (Adult)	2.5 - 3.8	reaching locally determined economic thresholds. Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When applying by ground, apply in a minimum of 10 gallons of water / acre. When applying by air, apply in a minimum of 2 gallons of water / acre.	statement under Use Requirements and Precautions. For control before the larva bores into the stem or head.
Whitefly species ³	3.8	1	

Restrictions

DO NOT apply more than 23.0 fl. oz. of this product per acre per crop season.

DO NOT apply within 7 days of harvest (PHI - 7 Days).

DO NOT apply within 5 days of previous application (Minimum retreatment interval - 5 Days).

*Not for use on crops grown for seed unless allowed by state-specific 24(c) labeling.

Pests	Fluid ounces/Acre	Application Methods	Remarks
For control of:		Apply before pests reach	¹ Use higher listed
Cutworm species]	damaging levels. Apply as	rates for large
Green Cloverworm		required by scouting, at	larvae.
Leafhoppers	1.9 – 2.5	intervals of 7 or more days.	
Rednecked Peanut Worm		Timing and frequency of	² Suppression only.
Threecornered Alfalfa Hopper		applications should be based]
Velvetbean Caterpillar		upon insect populations	³ See Resistance
For control of:		reaching locally determined	statement under
Armyworm ¹		economic thresholds.	Use Requirements
Bean Leaf Beetle			and Precautions.
Corn Earworm		Apply with ground or air	·
Fall Armyworm ¹		equipment using sufficient	
Grasshopper Species		water to obtain full coverage of	
Southern Corn Rootworm (Adult)		foliage.	
Stink Bug species.			
Tobacco Thrips	2.5 – 3.8	When applying by air, apply in	
Vegetable Weevil		a minimum of 2 gallons of	
Whitefringed Beetle (Adult)		water per acre.	
For control of:		j	}
Aphids ³			
Lesser Cornstalk Borer ²			_
Soybean Looper ^{2,3}	3.8		
Spider Mite Species ²			
Whitefly species ³			

Restrictions

DO NOT apply more than 12.4 fl. oz. of this product per acre per crop season.

DO NOT apply within 14 days of harvest (PHI - 14 Days) (minimum time between final application and threshing for seed).

DO NOT apply within 5 days of previous application (Minimum retreatment interval - 5 Days).

POME FRUITS - Foliar:			
Crops of Crop Group 11 including: App			
Pests	Fluid ounces/Acre	Application Methods	Remarks
For control of:		Apply before pests reach	¹ Suppression only.
Apple Aphid	2.5 -5.0	damaging levels. Apply as	
Apple Maggot (Adult) ²	ì	required by scouting, at	² Applications
Cherry Fruit Fly species (Adult)		intervals of 10 or more days.	targeting apple
Codling Moth		Timing and frequency of	maggot should be
Green Fruitworm	!	applications should be based	combined with
Japanese Beetle	ļ	upon insect populations	manufacturer's
Leafhopper species		reaching locally determined	specified rate of a
Leafroller species		economic thresholds.	sticker.
Lesser Appleworm			
Omnivorous Leafroller		Apply with ground or air	
Orange Tortrix		equipment using sufficient	· ·
Oriental Fruit Moth		water to obtain full coverage of	,
Pear Psylla ¹		all above ground plant parts.	
Periodical Cicada	į		
Plant Bug species		When applying by air, apply in	
Plum Curculio		a minimum of 2 gallons of	
Rosy Apple Aphid		water per acre, but use higher	
San Jose Scale		listed rates as appropriate for	
(crawlers, fruit infestations only)	1	thorough coverage.	
Sawfly species			
Spirea Aphid		When applying by ground,	
Stink Bug species		apply in a minimum of 10	
Tent Caterpillar species		gallons of water per acre. For	
Tentiform Leaf Miner species		best results apply in a	
Tree Borer species (Adult)		minimum of 50 gallons of	
Tufted Apple Budworm		water / acre to ensure	
Webworm species	Dagtrictic	thorough coverage.	<u> </u>

Restrictions

DO NOT apply more than 25.6 fl. oz. of this product per acre per crop season.

DO NOT apply more than 20.5 fl. oz. of this product per acre per year post bloom.

DO NOT apply within 21 days of harvest (PHI - 21 Days).

DO NOT apply within 10 days of previous application (Minimum retreatment interval – 10 Days).

DO NOT apply pre-bloom or during bloom or when bees are actively foraging.

Pests	Fluid ounces/Acre	Application Methods	Remarks
For control of: Cutworm species Leafhopper species Saltmarsh Caterpillar Woollybear Caterpillar species Aphid species Armyworm species Blister Beetle species Colorado Potato Beetle Corn Earworm Cricket Species Cucumber Beetle species (Adult) European Corn Borer Flea Beetle Species (Adult) Fleahoppers Grasshopper species Looper species Looper species Plant Bug species including Lygus species Potato Psyllid Potato Tuberworm Stink Bug species Thrips species Thrips species Webworm species Webworm species Weevil species (Adult)	1.9 – 2.5 2.5 – 3.8	Apply before pests reach damaging levels. Apply as required by scouting, at intervals of 7 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds and IPM recommendations. Apply with ground or air equipment using sufficient water to obtain full coverage of all above ground plant parts. When applying by air, apply in a minimum of 2 gallons total solution per acre. When applying by ground, a minimum of 10 gallons total solution per acre is recommended.	¹ Use higher listed rate for large larvae. ² Suppression only. ³ See Resistance statement under Use Requirements and Precautions. ⁴ Does not include Western Flower Thrips.
Leafminer species 2,3			
Spider Mite species ²	3.8		
Whitefly species ³	1		

Restrictions

DO NOT apply more than 15.4 fl. oz. of this product per acre per crop season.

DO NOT apply within 7 days of harvest (PHI - 7 Days).

DO NOT apply within 7 days of previous application (Minimum retreatment interval - 7 Days).

Pests	Fluid ounces/Acre	Application Methods	Remarks
For control of:		Apply before pests reach	¹ Use higher listed
Bean Leaf Beetle		damaging levels. Apply as	rate for large larvae
Cabbage Looper		required by scouting, at	
Corn Earworm	1.9 – 3.2	intervals of 7 or more days.	² Suppression only.
Corn Rootworm Beetle Species (Adult) 6		Timing and frequency of	1
Cutworm species		applications should be based	³ See Resistance
Green Cloverworm		upon insect populations	statement under
Mexican Bean Beetle		reaching locally determined	Use Requirements
Painted Lady Butterfly (Larva)		economic thresholds.	and Precautions.
Potato Leafhopper			
Saltmarsh Caterpillar		Apply with ground or air	⁴ Use higher listed
Soybean Aphids⁴		equipment using sufficient	rate for heavy
Threecornered Alfalfa Hopper		water and application methods	populations and/or
Thrips species⁵		to obtain full coverage of	late-season
Velvetbean Caterpillar		foliage.	applications.
Woollybear Caterpillar species			_
Armyworm ¹		When applying by ground,	⁵ Does not include
Blister Beetle species		apply in a minimum of 10	Western Flower
European Corn Borer		gallons of water / acre.	Thrips.
Fall Armyworm ¹			6
Grasshopper species		When applying by air, apply in	⁶ For control of adul
Japanese Beetle (Adult)		a minimum of 2 gallons of	corn rootworm
Plant Bug species		water per acre.	beetles (Diabrotica
Silverspotted Skipper			species) as part of
Stink Bug species	3.2 – 3.8		an aerial-applied
Tobacco Budworm ³			corn rootworm
Webworm species			control program us
Yellowstriped Armyworm ¹			a minimum of 2.5 fl
Beet Armyworm ^{2,3}			oz. of this product
Lesser Comstalk Borer ²	3.8		per acre.
Soybean Looper ^{2,3}			
Spider Mite species ²			
Whitefly species ³	<u> </u>		<u> </u>

Stink bugs: Control may require the use of two applications made at 7 to 10 day intervals.

Restrictions

DO NOT apply more than 7.7 fl. oz. of this product per acre per crop season.

DO NOT apply within 30 days of harvest (PHI - 30 Days).

DO NOT apply within 7 days of previous application (Minimum retreatment interval - 7 Days).

DO NOT graze or harvest treated soybean forage, straw, or hay for livestock feed.

DO NOT apply this product within 45 days of planting if soybean seeds were treated with a neonicotinoid product.

* Use not permitted in California unless otherwise directed by state-specific 24(c) labeling.

STONE FRUITS1 - Foliar:

Crops of Crop Group 12 including: Apricot², Cherry³ (including sweet and tart), Nectarine², Peach², Plum³ (including chickasaw, damson and Japanese), Plumcot³, Prune³ (fresh and dried)

Pests	Fluid ounces/Acre	Application Methods	Remarks
For control of:		Apply before pests reach	⁴ Suppression only.
American Plum Borer	2.5 -5.0	damaging levels. Apply as	
Aphid Species		required by scouting, at	
Apple Maggot (Adult)		intervals equal or greater than	
Cherry Fruit Fly species (Adult)		those specified under	
Codling Moth		Restrictions. Timing and	
Green Fruitworm		frequency of applications	
Japanese Beetle		should be based upon insect	
June Beetle		populations reaching locally	
Leafhopper species		determined economic	
Leafroller species		threshold and IPM	
Oriental Fruit Moth		recommendations.	
Peach Twig Borer			İ
Peachtree Borer species		Apply with ground equipment	
Periodical Cicada		using sufficient water and	
Plant Bug species		application methods to obtain	İ
Plum Curculio		full coverage of foliage.	
Rose Chafer			
Sawfly species		When applying by ground,	
Stink Bug species		apply in a minimum of 50	
Tent Caterpillar species		gallons of water / acre.	
Thrips species ⁴		<u> </u>	

For Stone Fruit: DO NOT apply this product between the pre-bloom (swollen bud) and post bloom (petal fall) growth stages.

²For Apricot, Nectarine, Peach: Minimum application volume (water): 50 GPA - ground application; 25 GPA - aerial application.

³For Cherries, Plums, Plumcot, Prune: Minimum application volume (water): 50 GPA - ground application; 25 GPA aerial application.

Restrictions

DO NOT apply more than 25.6 fl. oz. of this per acre per crop season.

DO NOT apply more than 20.5 fl. oz. of this product per acre per year post bloom.

DO NOT apply within 14 days of harvest (PHI - 14 Days).

DO NOT apply pre-bloom or during bloom or when bees are actively foraging.

For Apricot, Nectarine and Peach:
DO NOT apply within 7 days of previous application (Minimum retreatment interval – 7 Days).

For Cherry, Plum, Plumcot and Prune:

DO NOT apply within 10 days of previous application (Minimum retreatment interval - 10 Days).

SWEET POTATO and other TUBEROUS & CORM VEGETABLES* - Foliar:

Crops of Crop Group 1C including: Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Canna (edible. Queensland arrowroot), Cassava (bitter and sweet)*, Chayote (root), Chufa, Dasheen (taro) *, Ginger, Leren, Sweet Potato, Tanier (cocoyam)*, Turmeric, Yam bean (jicama, manoic pea), Yam (true)*

For application	to Potato see Potato	Section.

For control of:		
Cutworm species Leafhopper species Saltmarsh Caterpillar Sweet Potato Hornworm Woollybear Caterpillar species Aphid species Aphid species Blister Beetle species Corn Earworm Cricket Species Cucumber Beetle species (Adult) Flea Beetle Species (Adult) Grasshopper species Looper species Looper species Stink Bug species including Lygus species Sweet Potato Leaf Beetle (Adult) Sweet Potato Leaf Beetle (Adult) Sweet Potato Vine Borer Thrips species Weevil species Weevil species (Adult) Leafminer species Spider Mite species Spider Mite species 3.8	Apply before pests reach damaging levels. Apply as required by scouting, at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds and IPM recommendations. Apply with ground or air equipment using sufficient water to obtain full coverage of all above ground plant parts. When applying by air, apply in a minimum of 2 gallons total solution per acre. When applying by ground, a minimum of 10 gallons total solution per acre is recommended.	¹ Use higher listed rate for large larvae. ² Suppression only. ³ See Resistance statement under Use Requirements and Precautions. ⁴ Does not include Western Flower Thrips.

Restrictions

DO NOT apply more than 12.4 fl. oz. of this product per acre per crop season. DO NOT apply within 7 days of harvest (PHI - 7 Days).

DO NOT apply within 5 days of previous application (Minimum retreatment interval – 5 Days). DO NOT apply this product for these listed crops more than 3 times per crop season.

*Not for use on crops grown for seed unless allowed by state-specific 24(c) labeling.
*Tops or greens from these crops may be utilized for food or feed.

Pests	Fluid ounces/Acre	Application Methods	Remarks
For control of:		Apply before pests reach	For control of first
Aphids ³		damaging levels. Apply as	and second instars
Armyworm species ¹	1.9 – 3.8	required by scouting, at	only.
Blister Beetle species		intervals of 7 or more days.	
Cabbage Looper		Timing and frequency of	² Suppression only.
Corn Earworm		applications should be based	,
Cucumber Beetle species (Adult)		upon insect populations	³ See Resistance
Cutworm species		reaching locally determined	statement under
Grasshopper species	, i	economic thresholds.	Use Requirement
Japanese Beetle (Adult)			and Precautions.
Katydid species	İ	Apply with ground or air	
Plant Bug species		equipment using sufficient	}
Potato Tuberworm		water and application methods	
Saltmarsh Caterpillar		to obtain full coverage of	
Stink Bug species	·	foliage.	
Thrips species ²			
Tobacco Budworm ³	1	When applying by air, apply in	
Tobacco Flea Beetle (Adult)		a minimum of 5 gallons of	
Tobacco Hornworm		water per acre.	
Tomato Hornworm		water per acre.	
Tree Cricket species			
Vegetable Weevil (Adult)			
Webworm species			

Restrictions

DO NOT apply more than 11.5 fl. oz. of this product per acre per crop season.

DO NOT apply within 40 days of harvest (PHI - 40 Days).

DO NOT apply within 7 days of previous application (Minimum retreatment interval - 7 Days).

TREE NUTS - Foliar:

Crops of Crop Group 14 (except Almonds) including: Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (Hazelnut), Hickory nut, Macadamia nut (Bush nut), Pecan, Pistachio, Walnut (black and English)

Pests	Fluid ounces/Acre	Application Methods	Remarks
For control of:		Apply before pests reach	¹ Time applications to
Ant species	2.5 -5.0	damaging levels. Apply as	control San Jose
Aphids	1	required by scouting, at	scale according to
Chinch Bug		intervals of 6 or more days.	crawler stage,
Codling Moth		Timing and frequency of	treating each
Filbertworm		applications should be based	successive
Hickory Shuckworm		upon insect populations	generation. Two
Leaffooted Bug		reaching locally determined	applications on a 10
Leafroller species	\	economic threshold.	to 14-day interval
Navel Orangeworm			may be required to
Peach Twig Borer		When applying with ground	achieve control.
Pecan Casebearer species		equipment use a minimum	1
Phylloxera species (leaf infestations)		application volume (water) of	
Pecan Spittlebug	İ	50 GPA.	1
Pecan Weevil		,	
Plant Bug species		When applying with aerial	
Stink Bug species	1	application equipment use a	
Walnut Husk Fly species (Adult)		minimum application volume	
Leafhoppers & Sharpshooters		(water) of 25 GPA.	
Whiteflies	5.0	•	
San Jose scale ¹			'

Restrictions

DO NOT use in Almonds.

DO NOT apply more than 20.5 fl. oz. of this product per acre per crop season.

DO NOT apply more than 15.4 fl. oz. of this product per acre per crop season.

DO NOT apply more than 15.4 fl. oz. of this product per acre per year post bloom.

DO NOT apply within 14 days of harvest (PHI - 14 Days).

DO NOT apply within 6 days of previous application (Minimum retreatment interval – 6 Days).

DO NOT apply pre-bloom or during bloom or when bees are actively foraging.

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: DO NOT STORE PRODUCT IN AREAS THAT EXCEED TEMPERATURES OF GREATER THAN 420110°F. DO NOT store near or use with oxidizing agents. Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking, invert to prevent leakage. If container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. **DO NOT** walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away.

You may contact CHEMTREC at 800-424-9300 for decontamination procedures or any other assistance that may be necessary.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING:

[Note to Reviewer: The following statement will be included on all Final Printed Labels bearing multiple Container Disposal (Container Handling) statements] "This product is available in multiple containers. Refer to the Net Contents section of this products labeling for the applicable "Nonrefillable" or "Refillable" designation. Follow the container disposal [handling] instructions below that apply to your container type / size."

[Note to Reviewer: The bracketed section headers will be included when multiple container types / sizes are listed on the label.]

[Nonrefillable Containers 5 Gallons or Less]

Nonrefillable container: DO NOT reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

[Nonrefillable Containers Larger than 5 Gallons]

Nonrefillable container. DO NOT reuse or refill this container. Offer for recycling if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

[Refiliable Containers Larger than 5 Gallons]

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 a mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

[Refillable Containers for Return to Nufarm]

Refillable container: Refill this container with pesticide only. DO NOT reuse this container for any other purpose. Close all openings and replace all caps. Contact Nufarm's Customer Service Department at 1-800-345-3330 to arrange for return of the empty refillable container.

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WARRANTY DISCLAIMER

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION ON WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

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If you do not agree with or do not accept any of directions for use, the warranty disclaimers, or limitations on liability, do not use the product, and return it unopened to the Seller, and the purchase price will be refunded.

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LABEL HISTORY

File Name	Revision Mark	Comments
000228-00XXX.20120608.NUP-11045.New	RV060812	New Section 3 Label - Draft
000228-00TRT.20121218.NUP-11045.New	RV121812	EPA Change
000228-00TRT.20121219.NUP-11045.New	RV121912	EPA Changes
000228-00TRT.20121220.NUP-11045.New	RV122012	EPA Change
000228-00TRT.20121221.NUP-11045.New	RV122112	EPA Changes
000228-00TRT.20121227.NUP-11045.New	RV122712	EPA Changes
000228-00717.20130102.MASTER	RV010213	EPA SAL
000228.00717.20130628.nofit.MASTER	RV062813	Revise storage from 120*F to 110*F