11/18/2010



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

> OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

NuFarm Americas, Inc. c/o Ms. Georgia Anastasiou Lewis & Harrison 122 C Street, N.W. Suite 740 Washington, DC 20001

NOV 1 8 2010

Dear Ms. Anastasiou:

Subject: Amendment: Add restrictions per Agency pyrethroid labeling letter dated June 4, 2009, Update per PR Notices 2000-5, 2007-1 and 2008-1, and Revise Warranty section NUP-06211
EPA Reg. No. 228-560
Your submission dated September 3, 2010

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) section 3(c)(7)(a), is acceptable provided the following revision is made prior to release for shipment:

- 1) On page 4 at the end of the Imported Fire Ants paragraph, add "Food utensils such as teaspoons must not be used for food purposes after use in measuring pesticides.".
- 2) On page 5, in the second paragraph under the heading Foliar and Broadcast Applications for Ornamental Pests (which more correctly would be Foliar and Broadcast Application for Pests of Ornamentals), you have changed the meaning of the fourth sentence. Initially it was a precaution noting that uptake could be delayed by 60 days (waiting for the roots to pick up the product and move it through the plant). As revised, you are encouraging the user to delay translocation (impossible, unless you are encouraging delaying application for 60 days ("or less" ?)) after the pest appears. This contradicts the next sentence, which advocates applying prior to anticipated pest infestation to allow for the pickup delay. Reverting back to the original fourth sentence would avoid this contradiction.
- 3) On page 7, under the heading Soil Injection and Soil Drench for Ornamental Pests. the same comments as for item "2" above.

A stamped copy of the label is enclosed for your records. Please submit two copies of the revised amended labeling prior to release for shipment.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on <u>nonrefillable</u> containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions regarding this letter, please contact Dana Pilitt, PhD of my staff at (703) 305-7071 or via e-mail at <u>pilitt.dana@epa.gov</u>.

Sincerely,

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Richard Gebken Product Manager 10 Insecticide Branch Registration Division (7505P)

NUP-06211

FOR FOLIAR AND SYSTEMIC CONTROL OF INSECT PESTS OFTURFGRASS, LANDSCAPE ORNAMENTALS, SHRUBS AND TREES IN LAWNS, LANDSCAPES, PLAYGROUNDS, PARKS AND ATHLETIC FIELDS.

ACTIVE INGREDIENTS:		
Imidacloprid		5.0%
Bifenthrin*		
OTHER INGREDIENTS:		
	TOTAL:	100.0%

*Cis isomers 97% minimum, trans isomers 3% maximum Contains 0.45 pounds of imidacloprid and 0.36 pounds of bifenthrin per gallon

KEEP OUT OF REACH OF CHILDREN CAUTION - PRECAUCION

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

[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

NOTE: Spanish language is optional

EPA REG. NO. 228-560 EPA EST. NO.

NET CONTENTS

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MANUFACTURED FOR NUFARM AMERICAS INC. 150 HARVESTER DRIVE BURR RIDGE, IL 60527



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	Under the Federal Insecticide,	.)
PRN2000-5.2007-4.2008-1.Letter6-4-09	as amended, for the pesticide registered under EPA Reg. No.	נ ניני ניני נ
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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION - PRECAUCION

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Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

Applicators should wear long-sleeved shirt and long pants, socks, shoes and gloves.

USER SAFETY RECOMMENDATIONS

Users Should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside.
- 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.

IF SWALLOWED:	Call poison control center or doctor immediately for treatment advice.
	Have person sip a glass of water if able to swallow.
	 Do not induce vomiting unless told to do so by the poison control center or doctor.
	Do not give anything to an unconscious person.

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)-325-1 840 for emergency medical treatment information.

NOTE TO PHYSICIAN

Note to Physician: No specific antidote is available. Treat the patient symptomatically. This product contains a pyrethroid. If large amounts have been ingested, milk, cream and other digestible fats and oils may increase absorption and should be avoided.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish and aquatic invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does no blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems. Runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

This product contains a chemical with 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

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

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

Do not allow children or pets on treated surfaces until the spray has dried.

Do not water the treated area to the point of run-off. Do not make applications during rain.

Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage into sewers, storm drains, water bodies, or aquatic habitat can occur. DO NOT allow the product to enter any drain during or after application.

INFORMATION

This product controls or suppresses a wide spectrum of insects and mites on turfgrass, trees (including non-bearing fruit and nut trees), shrubs, evergreens, flowers, ground covers, bedding plants and foliage plants at and/or around residential dwellings (single and multi-family), office, commercial, shopping and institutional buildings and complexes, grounds, parks, recreational areas, athletic fields, playgrounds, airports, cemeteries, lawns and interior plantscapes. (Non-bearing crops are perennial crops that will not produce a harvestable raw agricultural commodity during the season of application.) This product mixes readily with water and other aqueous carriers.

This product is not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. This product is not for use in commercial greenhouses, nurseries, or on grasses grown for seed, golf courses, turfgrass grown for sale (sod farms) or on commercial fruit and nut trees.

Some insects can develop resistance to products used repeatedly for their control. Because the development of resistance by an insect to an insecticide cannot be predicted, use this product according to established resistance management strategies. Consult your local or state pest management authorities for details.

If necessary, consult resources in horticulture in your area (such as your Cooperative Extension Service) to determine appropriate application timing and cultural practices to control different types of pests.

APPLICATION FOR TURF PESTS

Use this product for the control of a wide range of pests of turfgrass. Because this product's active ingredients have long lasting residual activity, for control of subsurface feeders apply before the occurrence of egg laying activity. This product's active ingredients also have sufficient knockdown and residual activity to provide curative and residual control of surface feeding pests.

Do not apply more than 4.5 pints (0.25 lb. imidacloprid, 0.2 lb. bifenthrin) per acre or 1.65 fluid ounces per 1,000 square feet per application of product to turf. Do not apply more than 9.0 pints (0.5 lb. of imidacloprid active ingredient, 0.4 lb. bifenthrin) per acre or 3.3 fluid ounces per 1,000 square feet per year of product to turf.

Applications Sites

Permitted sites include but are not limited to lawns, grounds and landscapes at and/or around residential dwellings (single and multifamily), office, commercial, shopping and institutional buildings and complexes, grounds, parks, recreational areas, athletic fields, playgrounds, airports and cemeteries. New York State only: Do not apply solutions containing this product to grass or turf within 100 feet of a body of water (lake, pond, river, stream, wetland or drainage ditch).

Application Timing

The active ingredients in this product have sufficiently long-lasting residual activity that allows applications to be made prior to egg laying by the target pest(s). Optimum control of turf pests will be achieved when application is made prior to egg hatch followed by sufficient irrigation of rainfall to move the active ingredient through thatch and down into the underlying soil. Time applications based on past experiences at the site or in the area, current results of adult monitoring/trapping or other methods.

Post Application Watering and Mowing

Optimum control is achieved if irrigation or rainfall occurs within 24 hours after application. Uniformity of application may be adversely affected if turf is mowed prior to irrigation/rainfall occurring.

Application Precautions and Preparations

Keep children and pets off treated areas until spray has dried.

Do not apply to turf that is frozen, waterlogged or is saturated with water. Turf in this condition will not allow the necessary vertical distribution of the active ingredient down into the soil.

This product can be mixed with other insecticides, miticides, fungicides and fertilizers. Follow the label directions of all the products mixed, making sure not to exceed the labeled application rate of any individual product in the mixture. Test any tank mixture that has not been tested before prior to full scale use by first mixing a small quantity of the mixture to ensure there is no physical or chemical incompatibility.

Because certain cultivars may be sensitive to the final spray solution, test the effects of applications of different rates and volumes of mixed solution on a small patch of a type of grass (with observations over one week to detect the occurrence of negative effects) before application of solutions to large areas of that type of grass.

Applications Equipment and Methods

Apply this product mixed in water (according to the table below) as a spray of uniform, coarse droplets at a pressure low enough to eliminate drift from the target area. Properly calibrated application equipment must be used to apply this product. Check calibration periodically to ensure that equipment is working properly.

Reapplication

Reapply in the event of high pest pressure. Reapply as necessary to achieve control using higher application rates as pest pressure and foliage area increases but make reapplications no more often than once every 7 days. New York State only: Do make a single reapplication of this product if there is renewed insect activity, but not sooner than two weeks after first application.

Turf Pest Application Use Rates

Use rates for this product for turf pests are stated in fluid ounces of this product per 1,000 square feet and pints per acre. The application use rates listed below provide control of the listed pests under normal conditions. Apply this product at 0.4 to 1.65 fluid ounces per 1,000 square feet or 1.1 to 4.5 pints per acre, depending on the target pest. Use rates for specific pests within this range are given below. Use the higher application rates when maximum residual control is needed. However, applications of up to 1.65 fluid ounce per 1,000 square feet or 4.5 pints per acre are permitted at the first discretion of the applicator to control any pest. Do not apply more than 9 pints (0.5 lb. of imidacloprid active ingredient, 0.4 lb. bifenthrin) per acre or 3.3 fluid ounces per 1,000 square feet of product per year to turf.

Turf Pests Groups by Use Rates

Use R	ate Ranges for the following Turf P	ests Group
1.32- 1.65 fluid ounces of this	product per 1,000 square feet or 3.	6-4.5 pints of this product per acre.
Annual bluegrass weevil, Aphodius spp. Asiatic garden beetle Black turfgrass ataenius Black vine weevil European chafer European crane fly	Fruit fly Green June beetle Imported Fire Ants Japanese beetle Mole crickets Northern masked chafer	Nuisance ants Oriental beetle, Phyllophaga spp. Southern masked chafer Ticks

Use	Rate Ranges for the following T	urf Pests Group
0.40 - 1.65 fluid ounces of this product per 1,000 square feet or 1.1 - 4.5 pints of this product per acre.		
Annual bluegrass weevil, Aphodius	Crickets	Mealybugs
spp. Armyworms	Cutworm	Millipedes
Banks grass mites	s Earwigs	Mites
Billbugs	Fleas	Pillbugs
Chinch bugs	Grasshoppers	Sod
Centipedes	Leafhoppers	webworms
-		Sowbugs

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1 fluid ounce = 2 tablespoons = 6 teaspoons. Do not use household utensils to measure this product.

Application Directions Against Specific Turf Pests

Annual Bluegrass Weevil (Hyperodes) adults: Time applications to control adult weevils as they leave their overwintering sites and move into grass areas. This movement generally begins when Forsythia is in full bloom and concludes when flowering dogwood (cornus florida) is in full bloom. Consult your Cooperative Extension Service for more specific information regarding application timing.

Annual Bluegrass Weevil (Listronotus maculicollis) larvae: Apply at the first sign of wilting of bluegrass. For the first generation, this wilting often occurs after full bloom of flowering dogwood (Cornus florida).

Armyworms, Cutworms and Sod Webworms: To ensure control, delay watering (irrigation) or mowing for 24 hours after application. Use the highest application rate during periods of highest pest pressure if the grass is being maintained at a mowing height of 1 inch or greater.

Billbug adults: Apply when adults first appear in the spring or when chewed or brown grass indicates damage. Degree day models have been developed to optimize application timing. Consult your Cooperative Extension Service for information specific to your region. In temperate regions, spring applications targeting billbug adults will also provide control of over- wintered chinch bugs.

Chinch Bugs: Because they infest the base of grass plants, chinch bugs are often found in the thatch layer. Irrigation of the grass or high volume applications of solution can increase penetration of the solution to where the chinch bugs are located. Chinch bugs can be one of the most difficult turf pest to control. Use high application rates to achieve effective control, particularly in the middle of the summer when both nymphs and adults are present.

Mites: To ensure optimal control of eriophyid mites, apply in combination with the labeled application rate of a surfactant. A second application, five to seven days after the first, may be necessary to achieve acceptable control.

Flea larvae: Flea larvae develop in the soil of shaded areas that are accessible to pets or other animals. Use a higher volume application when treating these areas to ensure penetration of the insecticide into the soil.

Imported Fire Ants: Combine broadcast treatments to control newly invading ants and mound treatments to eliminate existing ant colonies. If the soil is not moist, irrigate before application or use a high volume application. Apply broadcast treatments at 1.65 fluid ounces per 1,000 square feet. Treat mounds by diluting 1/3 fluid ounce (2 teaspoons) of this product per gallon of water and applying 1 to 2 gallons of finished spray per mound. Treat mounds with sufficient force to break their apex and allow the insecticide solution to flow into the ant tunnels. Treat a four foot diameter circle around the mound. For best results, apply in cool weather (65 - 80°F) or in early morning or late evening hours.

Mole Cricket adults: Adult mole cricket control is difficult to attain because of continuous invasion during the early spring. Apply as late in the day as possible and water in with 0.5 inches of water immediately following treatment. Irrigating dry soil before application will bring crickets closer to the surface.

Mole Cricket nymphs: Treat grass areas that received intense adult mole cricket pressure in the spring immediately prior to peak egg hatch when young nymphs are located near the soil surface. Use higher application rates and more frequent applications to control larger, more damaging, nymphs later in the yea. Water in with 0.5 inches immediately following applications made late in the day. Irrigating dry soil before application will bring crickets closer to the surface.

Ticks (Including ticks that may transmit Lyme Disease and Rocky Mountain Spotted fever): Treat the entire area where exposure to ticks occurs. Avoid spot applications. Use higher spray volumes when treating areas with dense ground cover or heavy leaf litter. Ticks may be reintroduced from surrounding areas on host animals. Retreat to achieve and/or maintain control during periods of high pest pressure. Repeat application is necessary only if there are signs of renewed activity. Limit repeat application to no more than once per seven days.

Deer ticks (Ixodes sp.) have a complicated two year life cycle that involves four life stages. Apply in the late fall and/or early spring to control adult ticks that are usually located on brush or grass above the soil surface and in mid to late spring to control larvae and nymphs that reside in the soil and leaf litter.

American dog ticks commonly congregate along paths or roadways where humans are likely to be encountered. Apply as necessary from mid-spring to early fall to control their larvae, nymphs and adults.

Turf Application Volumes

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Apply the indicated amount of this product mixed in a volume of water sufficient to adequately distribute the active ingredient to the target area(s) and to wet all foliage.

The calculated amount of this product can be applied in any volume of water provided the maximum label rate is not exceeded. Do not exceed the maximum label rate by applying solution to an area smaller than intended when it was mixed and diluted unless such under dosing will not result in an application rate in excess of the maximum label rate.

Calculating Amounts to Mix for Turf Pests

To mix and apply any amount of this product for turf pests based on a number of square feet, determine:

A = # of Square feet of area to be treated / 1,000 (for example 5,000 sq. ft. / 1,000 = 5.0)

B = Applicable Use Rate of this product (fluid ounces per 1,000 square feet) for the target pest(s) from the Use Rate Table. If treating for more than one type of pest, select the highest rate.

Calculate the amount of this product to mix for turf pests as follows:

Ounces of this product to use = A X B

Mix this amount of this product in the amount of water needed to make the application.

To mix and apply any amount of this product for turf pests based on number of acres, determine:

A = # of acres of areas to be treated = square feet of area to be treated / 43,560 (1 acre = 43,560 sq. ft.)

B = Applicable Use Rate of this product (pints per acre) for the target pest(s) from the Use Rate Table. If treating for more than one type of pest, select the highest rate.

Calculate the amount of this product to mix for turf pests as follows:

Pints of this product to use = A X B

Mix this amount of this product in the amount of water needed to make the application. 1

Pint = 16 ounces.

FOLIAR AND BROADCAST APPLICATION FOR ORNAMENTAL PESTS

This product applied to foliage and broadcast on the soil, controls or suppresses a wide range of pests on trees (including nonbearing fruit and nut trees), shrubs, evergreens, flowers, ground covers, bedding plants and foliage plants including plants in interior plantscapes. (Non-bearing trees are perennial plants that will not produce a harvestable agricultural commodity within the next 12 months.) This product is not for use on plants being grown for sale, fruit, nut or commercial seed production or for research purposes.

This product is a systemic insecticide meaning it can be translocated by the plant's vascular system from the roots up into the body of the plant. This means optimum effectiveness of this product is realized when this product is applied on or near a growing portion of the plant from which it may be translocated to other parts of the plant. Combine this product with a nitrogen containing fertilizer to accelerate or otherwise enhance the uptake of the active ingredient into the plant. Delay translocation of soil directed applications to woody stemmed plants by 60 days or less. For this reason, apply prior to anticipated pest infestation to achieve optimum levels of control. Foliar applications of this product also have local systemic activity against insect pests.

For outdoor ornamentals, broadcast applications cannot exceed a total of 9.0 pints (0.5 lb. of imidacloprid and 0.4 lb. of bifenthrin) per acre per year.

Application Sites

For use on ornamental plants including but not limited to trees (including non-bearing fruit and nut trees), shrubs, evergreens, flowers, ground covers, bedding plants and foliage plants including plants in interior plantscapes.

Application Preparation

This product can be mixed with other insecticides, miticides, fungicides and fertilizers. Follow the label directions of all the products mixed, making sure not to exceed the labeled application rate of any individual product in the mixture. Test any tank mixture that has not been tested before prior to full scale use by first mixing a small quantity of the mixture to ensure there is no physical or chemical incompatibility.

FOLIAR APPLICATION

Ornamental Application to Control Ants

This product can be used to indirectly control ants when applied to control aphids, scale insects, mealybugs and other sucking insects on ornamentals thereby limiting the amount of honeydew available.

Foliar Application Volumes and Application Methods

This product mixes readily with water and can be used in many types of application equipment. Mix required amount of product (from the table below) with the amount of water required to uniformly wet foliage and apply as directed dependent upon the selected use pattern. Add a spreader/sticker when making foliar applications on hard to wet foliage such as holly, pine, or ivy. If concentrate or mist type spray equipment is used, use an equivalent amount of product on the area sprayed, as would be used in a dilute application. Begin treatments prior to establishment of high pest populations. Reapply as needed.

Foliar Application Use Rates

Use rates for this product for foliar application for ornamental pests are stated in fluid ounces (and millimeters) of this product per 100 gallons of water. The application rates listed below provide control of the listed pests under normal conditions. Apply this product at 6.7 to 21.3 fluid ounces per 100 gallons, depending on the target pests. Use rates for specific pests within this range are given below. Use the higher application rates when maximum residual control is needed. However, applications of up to 21.3 fluid ounces per 100 gallons are permitted at the discretion of the applicator to control any pest.

Use Rate Ran	ges for the following Ornamental Pests Grou	p by Foliar Application
21.3 fluid ounces of this product per 100 gallons of water or 630 ml of this product per 100 gallons of water.		
Ants Beet Armyworm Black vine weevil adult Broad mites Broad mites Budworms Scale crawlers Citrus thrips Clover mites Diaprepes (adults)	European red mites Fleabeetles Fungus gnats (adults) Grasshoppers Leaf rollers Mites Mosquitos Orchid weevil Pine needle scales (crawlers)	Plant bugs San Jose scale (crawlers) Spider Mites Thrips Tip moths Twig borers Wasps

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10.7-21.3 fluid ounces of this product per 100 gallons of water or 315-630 ml of this product per 100 gallons of water.		
Bagworms	Fall webworms	Leaf feeding caterpillars
Cutworms	Gypsy moth caterpillars	Tent caterpillars

6.70-21.3 fluid ounces of this product pe	r 100 gallons of water or 200-630 m	l of this product per 100 gallons of water
Adelgids Aphids Japanese beetles Lace bugs Leafbeetles (including elm and viburnum leaf	beetles) Leafhoppers (including glassy- winged sharpshooter) Mealybugs Psyllids	Sawfly larvae Thrips (suppression) Treehoppers Whitef lies

1 fluid ounce = 2 tablespoons = 6 teaspoons.

Do not use household utensils to measure this product.

BROADCAST APPLICATION

Broadcast Application Volumes and Application Methods

Mix required amount of product in a quantity of water sufficient to uniformly treat area. Use a minimum of 2 gallons of water per 1,000 square feet. To achieve control, irrigate treated area in order to incorporate treatment into upper level of soil.

Do not exceed the maximum label rate by applying solution to an area smaller than intended when it was mixed and diluted unless such under dosing will not result in an application rate in excess of the maximum label rate.

For outdoor ornamentals, broadcast applications cannot exceed a total of 9.0 pints (0.5 lb. of imidacloprid and 0.4 lb. of bifenthrin) per acre or 3.3 fluid ounces per 1,000 square feet per year.

Broadcast Application Use Rates

Use rates for this product for broadcast application for ornamental pests are stated in fluid ounces (and millimeters) of this product per 1,000 square feet. The application rates listed below provide control of the listed pests under normal conditions. Apply this product at 0.4 to 1.65 fluid ounces per 1,000 square feet, depending on the target pest. Use rates for specific pests within this range are given below. Use the higher application rates when maximum residual control is needed.

Use Rate Ranges for the following Ornamental Pests Group by Broadcast Application 1.32 - 1.65 fluid ounces of this product per 1,000 square feet or 40- 50 ml of this product per 1,000 square feet		
White grub larvae (such as Japanese beetle larvae, Chafers, Phyllophaga spp., Asiatic garden beetle, Oriental beetle)	Imported Fire Ants	Nuisance Ants

Use Rate R	anges for the following Ornamental Pests	Group by Broadcast Application
0.40 - 0.85 fluid ounce o	of this product per 1,000 square feet or 12	-26 ml of this product per 1,000 square feet.
Centipeds Crickets Earwigs	Pillbugs Sowbugs Armyworms	Cutworms Sod webworms

1 fluid ounce = 2 tablespoons = 6 teaspoons.

Do not use household utensils to measure this product.

SOIL INJECTION AND SOIL DRENCH FOR ORNAMENTAL PESTS

This product, applied as a soil drench or soil injection, controls or suppresses a wide range of insects on trees (including non-bearing fruit and nut trees), shrubs, evergreens, flowers, foliage plants, ground covers and interior plantscapes. (Non-bearing trees are perennial plants that will not produce a harvestable agricultural commodity within the next 12 months.) This product is not for use on plants being grown for sale, fruit, nut or commercial seed production or for research purposes.

This product is a systemic insecticide meaning it can be translocated by the plant's vascular system from the roots up into the body of the plant. This means optimum effectiveness of this product is realized when this product is applied on or near a growing portion of the plant from which it may be translocated to other parts of the plant. Combine this product with a nitrogen containing fertilizer to accelerate or otherwise enhance the uptake of the active ingredient into the plant. Delay translocation of soil drench applications to woody stemmed plants by 60 days or less. For this reason, apply prior to anticipated pest infestation to achieve optimum levels of control.

Applications to trees for the control of existing borer infestations may not prevent the eventual loss of the tree due to existing damage already caused by the pest and stress to the tree caused by the pest infestation.

Application Sites

For use on ornamental plants including but not limited to trees (including non-bearing fruit and nut trees), shrubs, evergreens, flowers, ground covers, bedding plants and foliage plants including plants in interior plantscapes.

Application Preparation

This product can be mixed with other insecticides, miticides, fungicides and fertilizers. Follow the label directions of all the products mixed, making sure not to exceed the labeled application rate of any individual product in the mixture. Test any tank mixture that has not been tested before prior to full scale use by first mixing a small quantity of the mixture to ensure there is no physical or chemical incompatibility.

Ornamental Pests Controlled by Soil Injection or Drench Application		
Adelgids	Lace bugs	Psyllids
Aphids	Leaf beetles (including elm and	Royal palm bugs
Armored scales (suppression)	viburnum leaf beetles)	Sawfly larvae
Black vine weevil larvae	Leafhoppers (including glassy-winged	Soft scales
Eucalyptus longhorned borer	sharpshooter)	Thrips (suppression)
Flatheaded borers (including bronze birch	Leafminers	White grub larvae
borer and alder borer)	Mealybugs	Whiteflies
Japanese beetles	Pine tip moth larvae	

SOIL INJECTION FOR TRESS

Soil injection is not allowed in Nassau and Suffolk Counties of New York.

Soil Injection Use Rate for Trees

0.45 to 0.90 fluid ounce per inch of trunk diameter (D. B. H.) / 14 to 27 milliliters per inch of trunk diameter (D. B. H.)

Soil Injection Volumes and Application Method for Trees

Mix the calculated amount of this product in the amount of water determined to be adequate for the treatment to be adequately dispersed. Apply at a low pressure according to one of the two following methods. Make a minimum of 4 injection holes per tree. For optimum control, maintain a high level of soil moisture in the treated area for 7 to 10 days after treatment.

Grid Injection: Evenly space holes on 2.5 foot centers in a grid pattern in the soil beneath the tree's branches/foliage out to the tree's drip line.

Basal Injection: Evenly space injection holes around the base of the tree no more than 12 inches out from the tree.

Circle System: Apply in holes evenly spaced in circles, (use more than one circle dependent upon the size of the tree) beneath the drip line of the tree extending in from that line.

SOIL DRENCH FOR TREES

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Soil Drench Use Rate for Trees

0.45 to 0.90 fluid ounce per inch of trunk diameter (D. B. H.) / 14 to 27 milliliters per inch of trunk diameter (D. B. H.)

Soil Drench Volume and Application Method for Trees

Mix the calculated amount of this product in the amount of water determined to be adequate for the solution to be adequately dispersed. Apply solution at a rate of no less than 10 gallons per 1,000 square feet around the base of the tree directed to the root zone. If present, remove any barrier to the movement of the solution into the soil such as a plastic vapor barrier.

SOIL INJECTION FOR SHRUBS

Soil injection is not allowed in Nassau and Suffolk Counties of New York

Soil Injection Use Rate for Shrubs

0.45 to 0.90 fluid ounce per foot of shrub height / 14 to 27 milliliters per foot of shrub height

Soil Injection Volume and Application Method for Shrubs

Mix the calculated amount of this product in the amount of water determined to be adequate for the treatment to be adequately dispersed. Apply to individual plants using dosage indicated at a low pressure, making a minimum of 4 injection holes per shrub. For optimum control, maintain a high level of soil moisture in the treated area for 7 to 10 days after treatment.

SOIL DRENCH FOR SHRUBS

Soil Drench Use Rate for Shrubs

0.45 to 0.90 fluid ounce per foot of shrub height / 14 to 27 milliliters per foot of shrub height

Soil Drench Volumes and Application Method for Shrubs

Mix the calculated amount of this product in the amount of water determined to be adequate for the solution to be adequately dispersed, but at a rate no less than 10 gallons per 1,000 square feet around the base of each shrub directed to the root zone. If present, remove any barrier to the movement of the solution into the soil such as a plastic vapor barrier.

Soil Incorporation for Flowers and Groundcovers

Apply as a broadcast treatment and incorporate into the soil before planting or apply after plants are established. If application is made to established plants, optimum control will be attained if area is irrigated thoroughly after application.

Soil Incorporation Use Rate for Flowers and Groundcovers

1.32 to 1.65 fluid ounces per 1,000 square feet / 40 to 50 milliliters per 1,000 square feet

RESTRICTIONS

Do not graze treated areas or use clippings from treated areas for feed or forage.

Avoid runoff or puddling of irrigation water following application.

Do not apply by air.

Do not apply by any type of irrigation system.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: 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 container is leaking, invert to prevent leakage. If container is leaking or if material is spilled for any reason or cause, carefully contain any spilled material to prevent non-target contamination. Do not walk through spilled material and dispose of as directed for pesticides below. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below. Refer to Precautionary Statements on label for hazards associated with the handling of this material. In spill or leak incidents, keep unauthorized people away. You may contact Chemtrec at 1-800-424-9300.

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

[Nonrefillable Containers 5 Gallons or Less:]

CONTAINER DISPOSAL: 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. Fill the container 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. Do not burn unless allowed by state and local ordinance If burned stay out of smoke.

[Nonrefillable containers larger than 5 Gallons:]

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. If recycling or reconditioning is not available, 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. Do not burn unless allowed by state and local ordinance. If burned stay out of smoke. 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 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.

[Refillable containers]

CONTAINER HANDLING [DISPOSAL]: 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 For return to Nufarm:]

CONTAINER HANDLING [DISPOSAL]: 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.

WARRANTY DISCLAIMER

The directions for use of this product must be followed carefully.TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVEREDTOYOU 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 PARTICULARTRADE USAGE. 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 OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

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