

42750-113

3/20/2014

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



OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

Albaugh, Inc.
P.O. Box 2127
Valdosta, GA 31604

Subject: Amended label adding pollinator protection language
Product Name: Imidacloprid 2FL GH
EPA Reg. No. 42750-113
Submission dated August 19, 2013
Decision #: 482516

MAR 20 2014

Dear Ms. Miter:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act is acceptable. A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release the product for shipment with the new labeling. See 40 CFR 156.10(a)(6).

Under 40 CFR 152.130(d), EPA may establish dates by which all product distributed or sold by the registrant must bear revised labeling. The following paragraphs set forth the schedule for ensuring that that your product bears revised labeling within a reasonable time period.

- Any product released for shipment after 2/28/14 must bear the new label.

If these conditions are not complied with, EPA will take appropriate action against this registration. If you have any questions please contact Dr. Jennifer Urbanski at 703-347-0156 or urbanski.jennifer@epa.gov.

Regards,

A handwritten signature in black ink that reads "Venus Eagle".

Venus Eagle, Product Manager (01)
Insecticide-Rodenticide Branch
Registration Division (7505P)

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EDITOR'S NOTE: 3/20/14 draft label amendment re-sbmtl in response to Agency's 8/15/13 Label Call-In for pollinator precautions

IMIDACLOPRID 2FL GH
Greenhouse and Nursery Insecticide

Group 4A Insecticide

For foliar and systemic insect control on ornamentals, non-bearing fruit and nut trees, and vegetable plants in greenhouses, nurseries, and interior plantscapes.

ACTIVE INGREDIENT:

Imidacloprid, 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimin. 21.4%

OTHER INGREDIENTS: 78.6%

TOTAL: 100.0%

Contains 2 pounds of imidacloprid per gallon

SHAKE WELL BEFORE USING

STOP - Read the label before use.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

ACCEPTED

MAR 20 2014

Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended, for the
pesticide registered under:

EPA. Reg. No: 42750-113

PRECAUCION AL USUARIO: Si usted no puede leer o entender ingles, no use este producto 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.)

FIRST AID	
IF SWALLOWED	<ul style="list-style-type: none"> • Call a 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 a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • 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.
IF IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minute. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
In case of emergency call CHEMTREC toll free at 1-800-424-9300. Have a product container or label with you when calling a poison control center or, doctor, or going for treatment.	
Note to Physician: No specific antidote is available. Treat the patient symptomatically.	

EPA Reg. No. 42750-113

EPA Est. No. xxxxxx-xx-xxx

NET CONTENTS:

Manufactured For:
ALBAUGH, INC.
ANKENY, IA 50021

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Keep children or pets off treated area until spray is dry.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

1. Long-sleeved shirt and long pants
2. Chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride (PVC) or viton
3. Shoes plus socks

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

ENGINEERING CONTROLS

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.

Important: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "Applicators and Other Handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

USER SAFETY RECOMMENDATIONS

USER SHOULD:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is highly toxic to aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops/plants or weeds. Do not apply this product or allow it to drift to blooming crops/plants or weeds if bees are foraging in the treatment area.

This chemical 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.

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PROTECTION OF POLLINATORS



APPLICATION RESTRICTIONS EXIST FOR THIS PRODUCT BECAUSE OF RISK TO BEES AND OTHER INSECT POLLINATORS. FOLLOW APPLICATION RESTRICTIONS FOUND IN THE DIRECTIONS FOR USE TO PROTECT POLLINATORS.



Look for the bee hazard icon in the Directions for Use for each application site for specific use restrictions and instructions to protect bees and other insect pollinators.

This product can kill bees and other insect pollinators.

Bees and other insect pollinators will forage on plants when they flower, shed pollen, or produce nectar.

Bees and other insect pollinators can be exposed to this pesticide from:

- o Direct contact during foliar applications, or contact with residues on plant surfaces after foliar applications
- o Ingestion of residues in nectar and pollen when the pesticide is applied as a seed treatment, soil, tree injection, as well as foliar applications.

When Using This Product Take Steps To:

- o Minimize exposure of this product to bees and other insect pollinators when they are foraging on pollinator attractive plants around the application site.
- o Minimize drift of this product on to beehives or to off-site pollinator attractive habitat. Drift of this product onto beehives or off-site to pollinator attractive habitat can result in bee kills.

Information on protecting bees and other insect pollinators may be found at the Pesticide Environmental Stewardship website at:

<http://pesticidestewardship.org/PollinatorProtection/Pages/default.aspx>.

Pesticide incidents (for example, bee kills) should immediately be reported to the state/tribal lead agency. For contact information for your state, go to: www.aapco.org/officials.html. Pesticide incidents should also be reported to the National Pesticide Information Center at: www.npic.orst.edu or directly to EPA at: beekill@epa.gov

STORAGE AND DISPOSAL

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 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 Statement 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.

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

CONTAINER HANDLING: Non-refillable containers (1, 2.5, 30 & 55 gallon): Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

(non-refillable ≤5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

(non-refillable >5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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. 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 (all sizes): 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 for 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 container (250 gallon & bulk): 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 the container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinseate into application equipment or rinsate collection system. Repeat this rinsing process two more times.

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 requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

See individual crops for specific pollinator protection application restrictions. If none exist under the specific crop, for foliar applications, follow these application directions for food/feed & commercially grown ornamentals that are attractive to pollinators, and for non-agricultural use sites.



FOR FOOD CROPS AND COMMERCIALY GROWN ORNAMENTALS NOT UNDER CONTRACT FOR POLLINATION SERVICES BUT ARE ATTRACTIVE TO POLLINATORS

Do not apply this product while bees are foraging. Do not apply this product until flowering is complete and all petals have fallen unless one of the following conditions is met:

- The application is made to the target site after sunset
- The application is made to the target site when temperatures are below 55°F
- The application is made in accordance with a government-initiated public health response
- The application is made in accordance with an active state-administered apiary registry program where beekeepers are notified no less than 48-hours prior to the time of the planned application so that the bees can be removed, covered or otherwise protected prior to spraying
- The application is made due to an imminent threat of significant crop loss, and a documented determination consistent with an IPM plan or predetermined economic threshold is met. Every effort should be made to notify beekeepers no less than 48-hours prior to the time of the planned application so that the bees can be removed, covered or otherwise protected prior to spraying.



NON-AGRICULTURAL USE SITES:

Do not apply Imidacloprid 2FL GH while bees are foraging. Do not apply Imidacloprid 2FL GH to plants that are flowering. Only apply after all flower petals have fallen off.

AGRICULTURAL USE REQUIREMENTS

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

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

Exception: If the product is drenched, soil-injected or soil-incorporated, workers may enter the treated area at any time if there will be no contact with anything that has been treated.

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:

1. Coveralls
2. Chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride (PVC) or viton
3. Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

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

Keep children and pets off treated area until dry.

RESTRICTIONS for All uses

- Do not graze treated areas or use clippings for treated areas for feed or forage.
- Do not formulate this product into other end-use products.
- Avoid runoff or puddling of irrigation water following application.
- Do not apply to soils which are water logged or saturated, which will not allow penetration into the root zone of the plants.
- Do not allow leachate run out for the first 10 days after application to allow full plant uptake of the active ingredient.
- For outdoor ornamentals, do not exceed a total of 1.6 pt (0.4 lb of active ingredient) per acre per year.

APPLICATION TO ORNAMENTALS AND VEGETABLE PLANTS

Apply IMIDACLOPRID 2FL GH to control labeled insects on ornamental and vegetable plants in nurseries and greenhouses and interior landscapes.

IMIDACLOPRID 2FL GH is a systemic insecticide that is transported within the plant system from the roots to upper foliage. IMIDACLOPRID 2FL GH must be applied into a growing area of the plant that allows absorption of the active ingredient. Adding soluble nitrogen-type fertilizers to the spray solution when appropriate can promote the uptake of the active ingredient. Application can be made by foliar application or soil applications; including soil injection, drenches, chemigation and broadcast sprays.

The systemic translocation of active ingredient will be slower when applied to woody plants with soil applications. This delay can take 60 days or longer depending on species and size of plant. To offset this, make applications before anticipated pest infestation.

For outdoor ornamentals applications, do not exceed a total of 1.6 pints (0.4 lb. of active ingredient) per acre per year.

Bark Media: Media with 30% or more bark content may confer a shorter period of protection when treated with IMIDACLOPRID 2FL GH.

RESISTANCE: Some insects may develop resistance to imidacloprid after repeated use. Users should incorporate resistance management practices such as rotating classes of insecticides when possible.

Insect species that have acquired a tolerance to imidacloprid and other neonicotinoid (Group 4A) insecticides may become dominant if Group 4A is used repeatedly. This can eventually result in the loss of this class of insecticides as a viable control.

Do not make over three consecutive applications of IMIDACLOPRID 2FL GH and/or other Group 4A neonicotinoid class products having a similar mode of action. Following a neonicotinoid series of treatments, Albaugh recommends rotation to application with products that control with a different mode of action before making more applications of neonicotinoid products. Using a rotation of insecticide classes approach, along with other IPM practices, is an effective strategy for minimizing insect pest's resistance to this class of chemistry.

Soil applications of neonicotinoid class insecticides to crops should be factored into the resistance management plans for foliar applications to the crops.

Application Equipment for Ornamentals and Vegetable Plants

IMIDACLOPRID 2FL GH mixes readily with water and may be used in many types of application equipment. Add a commercial spreader/sticker promote coverage on hard to wet foliage such as holly, pine, or ivy. If concentrate or mist type spray equipment is used, an equivalent amount of product should be used on the area sprayed, as would be used in a dilute application.

IMIDACLOPRID 2FL GH is compatible with many commonly used fungicides, miticides, liquid fertilizers, and other insecticides. If applicator has no prior experience with a particular tank mix, physical compatibility should be checked by making a small clear jar test using correct proportions of products to be tank mixed.

APPLICATION THROUGH IRRIGATION SYSTEMS

Apply Imidacloprid 2FL GH at the rate specified on the label. The normal dilution ratio is 1:100 to 1:200, depending on the design of the system. Meter the product into the irrigation water during the first part of the irrigation cycle. The product may be mixed separately prior to injection. Agitation may be necessary if the mixture is allowed to stand more than 24 hours.

Remove scale, pesticide residue and other foreign matter from the tank and entire Irrigation system.

Apply IMIDACLOPRID 2FL GH only through micro irrigation (individual spaghetti tubes), drip irrigation, overhead irrigation, ebb and flood, or hand-held or motorized calibrated irrigation equipment.

Do not apply this product through any other type of irrigation system. Crop injury or lack of effectiveness can result from non uniform distribution of treated water.

If you have any questions about calibration, contact your State Extension Service specialist, equipment manufacturers or other experts in this area.

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.

A person knowledgeable of the chemigation system and responsible for its operation, or a person who is under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

SAFETY DEVICES FOR IRRIGATION SYSTEMS CONNECTED TO PUBLIC WATER SUPPLIES:

If the source of water for your irrigation system is a public water supply, follow the instructions below:

1. 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.
2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
4. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. 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.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.

SAFETY DEVICES FOR IRRIGATION SYSTEMS NOT CONNECTED TO A PUBLIC WATER SUPPLY.

1. 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.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. 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.

4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. 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 the pesticide distribution is adversely affected.
6. Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of material that is compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.

APPLICATION TO GRASSY AREAS IN NURSERIES

IMIDACLOPRID 2FL GH will control soil inhabiting pests of grassy areas of nurseries, such as:

PEST	SCIENTIFIC NAME
Northern & Southern masked chafers	<i>Cyclocephala borealis, C. immaculata, and/or C. lurida</i>
Asiatic garden beetle	<i>Maladera castanea</i>
European chafer	<i>Rhizotrogus majalis</i>
Green June beetle	<i>Cotinis nitida</i>
May or June beetle	<i>Phyllophaga spp.</i>
Japanese beetle	<i>Popillia japonica</i>
Oriental beetle	<i>Anomala orientalis</i>
Billbugs	<i>Spherophorus spp.</i>
Annual bluegrass weevil	<i>Hyperodes spp.</i>
Black turfgrass ataenius	<i>Ataenius spretulus and Aphodius spp</i>
European Crane Fly	<i>Tipula paludosa</i>
Mole crickets	<i>scapteriscus spp.</i>

IMIDACLOPRID 2FL GH will suppress cutworms and chinchbugs.

Use IMIDACLOPRID 2FL GH as labeled on nursery grass in sites such as under or around field or container grown plants, on roadways or other grassy areas in or around nurseries.

IMIDACLOPRID 2FL GH has adequate residual activity that applications can be made preceding the egg laying activity of the target pests. Best control is achieved when applications are made prior to egg hatch of the pests. Sufficient irrigation or rainfall is required to move the active ingredient through the thatch.

Best results are achieved when rainfall or irrigation after application will penetrate vertically in the soil column carrying the active ingredient into the zone where insects are normally located.

RESTRICTION:

- Do not apply when infested turfgrass areas are waterlogged or soil beneath turf is saturated with water. These conditions prevent thorough and consistent distribution.
- Application cannot exceed a total of 1.6 pints (0.4 lb. of active ingredient) per acre per year.
- Do not use IMIDACLOPRID 2FL GH on commercial sod farms.
- Do not allow this product to contact plants in bloom if bees are foraging the treatment area.

Application Equipment for Use on Grassy Areas in Nurseries

Dilute IMIDACLOPRID 2FL GH with enough water to provide adequate volume to promote thorough

distribution into the pest zone. Use only accurately calibrated equipment for application to turfgrass. Apply a uniform, coarse droplet spray, using a low pressure setting to eliminate off target drift. Calibration should be performed on a regular basis to ensure that equipment is distributing product properly.

GRASSY AREAS OF FIELD & FOREST NURSERIES

To control larvae of:

- | | |
|-------------------------|--------------------------|
| Annual bluegrass weevil | Black turfgrass ataenius |
| Green June beetle | Oriental beetle |
| Asiatic garden beetle | Cutworms (suppression) |
| Japanese beetle | Phyllophaga spp. |
| Billbug | European chafer |
| Northern masked chafer | Southern masked chafer |

Apply 19.2 to 25.6 fluid ounces per acre (equivalent to 0.46 to 0.6 fl oz per 1000 sq ft). Make application prior to egg hatch of grubs, billbugs, and annual bluegrass weevil to maximize control.

For chinch bugs (suppression) and control of mole crickets apply 25.6 fluid ounces per acre (equivalent to 0.6 fl oz per 1000 sq ft). For suppression of chinchbugs, make application before the hatching of the first instar nymphs.

For control of mole crickets make application before or during the peak egg hatch period. If adults or large nymphs are actively tunneling, IMIDACLOPRID 2FL GH application should be combined with a curative insecticide. Follow label instructions for other insecticides when tank-mixing.

Consult your local turf, state Agricultural Experiment Station, or State Extension Service Specialists for more specific Information regarding timing of application.

Mow grass only after sufficient irrigation or rainfall has occurred so application will not be affected.

Restrictions for Application to Grassy Areas of Nurseries:

- Do not apply more than 1.6 pt (0.4 lb of active ingredient) per acre per year.
- Do not allow this product to contact plants in bloom if bees are foraging the treatment area.
- Do not graze treated areas or use clippings of treated areas for feed or forage.
- Do not apply to soils which are water logged or saturated, which will not allow penetration into the root zone of the plant.

ORNAMENTALS

For foliar and systemic insect control in and around field-grown nursery and containers stock, indoor and outdoor ornamentals (including both greenhouse and interior plantscapes) and ornamentals grown in flats benches or beds.

Use Sites: TREES (INCLUDING NON-BEARING FRUIT AND NUT), SHRUBS, EVERGREENS, FLOWERS, FOLIAGE PLANTS, GROUND COVERS, INTERIOR PLANTSCAPES AND VEGETABLE PLANTS*

To control Adelgids, Leafminers, Aphids, Mealybugs, Japanese beetles (adults), Sawfly larvae, Lacebugs, Thrips (suppression), Leaf beetles (including elm & viburnum leaf beetles, Whiteflies, Leafhoppers (including glassy-winged sharpshooter) apply 1.7 fluid ounces per 100 gallons of water.

Make foliar applications before pest exceeds economic threshold. For resistance management do not make a foliar application after a soil application in the same crop.

To control White grub larvae (such as Japanese beetle larvae, Chafers, Phyllophaga spp. Asiatic garden beetle, Oriental beetle) apply 0.45 to 0.6 fluid ounces per 1000 square feet.

Mix in sufficient water and apply as a broadcast application. Do not use less than 2 gallons of water per 1000 square feet. For best control, irrigate after application to move IMIDACLOPRID 2FL GH into the upper soil profile.

Refer to the section for use directions specific for "Flowers and Ground Covers" concerning additional use directions.

Restrictions for Ornamentals:

- Do not apply more than 1.6 pt (0.4 lbs ai) per acre per year outdoors.
- For use only on non-bearing fruit and nut trees. Non-bearing fruit and nut trees are those that will not bear fruit or nuts within one year after application.
- Do not apply to soils which are water logged or saturated, which will not allow penetration into the root zone of the plant.
- Do not apply this product in the state of Oregon, by any application method, to linden, basswood or other *Tilia* species

* Only for use on the following vegetable plants intended for resale: Broccoli, Chinese Broccoli, Broccoli Raab, Brussels Sprouts, Cabbage, Chinese Cabbage, Cauliflower, Collards, Eggplant, Ground Cherry, Kale, Kohlrabi, Lettuce, Mustard Greens, Pepinos, Peppers, Potatoes, Rape Greens, Sorghum, Sugarbeets, Tomatillo, and Tomato.

APPLICATIONS FOR NURSERY, GREENHOUSE AND INTERIORSCAPE PLANTS

To control:

- | | |
|---|----------------------|
| Adelgids | sharpshooter) |
| Aphids | Leafminers Mealybugs |
| Armored scales (suppression) | Pine Tip moth larvae |
| Black vine weevil larvae | Psyllids |
| Eucalyptus longhorned borers | Royal palm bugs |
| Flatheaded borers (including bronze birch and alder borers) | Sawfly larvae |
| Japanese beetles (adults) Lacebugs | Soft scales |
| Leaf beetles (including elm and viburnum leaf beetles) | Thrips (suppression) |
| Leafhoppers (including glassy-winged | White grub larvae |
| | Whiteflies |

For TREES, apply 0.1 to 0.2 fl oz (3 to 6 mL) per inch of trunk diameter (D.B.H.).

Application Technique:

Soil Injection

GRID SYSTEM: Make applications in a grid pattern on 2.5 foot centers within the drip line of the tree.

CIRCLE SYSTEM: Make applications in holes evenly spaced approximately 2 – 3 feet apart in a circle within the drip line of the tree. Larger trees may require additional application circles.

BASAL SYSTEM; Make applications into holes evenly spaced around the base of the tree trunk no more

than 6 to 12 Inches out from the base.

Restrictions for Soil Injection and Soil Drench:

- Do not apply more than 1.6 pt (0.4 lbs ai) per acre per year outdoors.
- For use only on non-bearing fruit and nut trees. Non-bearing fruit and nut trees are those that will not bear fruit or nuts within one year after application.
- Do not apply to soils which are water logged or saturated, which will not allow penetration into the root zone of the plant.
- Do not apply this product in the state of Oregon, by any application method, to linden, basswood or other *Tilia* species

Soil Drench

Apply in no less than 10 gallons of water per 1000 square feet as a drench around the base of the tree, directed to the root zone. Any plastic or other barrier that may prevent drench solution from reaching the root zone must be removed.

NOTE: Application to trees already heavily infested with borers listed may not prevent the eventual loss of the

For SHRUBS apply 0.1 to 0.2 fl oz (3 to 6 mL) per foot of shrub height.

Application Techniques:

Soil Injection:

Apply to individual plants using dosage indicated.

Soil Drench:

Uniformly apply the dosage in no less than 10 gallons of water per 1000 square feet as a drench around the base of the tree, directed to the root zone. Remove plastic or any other barrier that will stop solution from reaching the root zone.

For FLOWERS and GROWDCOVERS apply 0.45 to 0.6 fluid ounces (13 to 17 mL) per 1000 sq ft.

Apply as a broadcast treatment and incorporate into the soil before planting or apply prior to bloom or after all petals have fallen off for established plants. If application is made to established plants, best control is achieved by irrigating after application.

EBB & FLOOD APPLICATION

IMIDACLOPRID 2FL GH may be applied through Ebb and Flood applications.

Before making applications select at least 10 plants in same size pots and water to media's absorbent capacity. Then allow them to dry for 1 or 2 days then re-water back to capacity noting how much water is required on a per plant basis. Use that amount multiplied times total number of plants being treated to calculate total volume of water required to flood smallest treatment area. Unused treatment water should be returned to storage tank for used at next treatment.

To control:

- Adelgids
- Aphids
- Armored scales (suppression)

- Fungus Gnats (larvae only)¹
- Japanese beetles (adults)
- Lacebugs

Leaf beetles (including elm and viburnum leaf beetles)	Root Weevil Complex (such as Apopka Weevil, Black Vine Weevil, Citrus Root Weevil ³)
Leafhoppers (including glassy-winged sharpshooter)	Soft scales
Leafminers	Thrips (suppression) ⁴
Mealybugs	Whiteflies
Mealy bugs	White grub larvae such as Japanese Beetle.
Psyllids	Masked Chafers, European Chafer, Oriental Beetle, Asiatic Garden Beetle)
Root mealybugs ²	

Make ebb or flood application according to the following table:

Pot sizes (inches)	Herbaceous species including vegetable plants ⁵ (one or two plants per pot)	Woody perennials, Herbaceous species including vegetable plants ⁵ (3 or more per pot)
	mL per 100 Plants	mL per 100 Plants
2	1.6 mL	2.5 mL
3	2.5 mL	3.7 mL
4	3.3 mL	5 mL
5	4.2 mL	6.3 mL
6	5 mL	7.7 mL
7	5.9 mL	9.1 mL
8	6.6 mL	10 mL
9	7.4 mL	11.1 mL
10	8.3 mL	12.5 mL
11	9 mL	14.3 mL
12	10 mL	16.7 mL

¹ Fungus gnat larvae in the soil will be controlled by drench or incorporation. No adult Fungus Gnat control. Other foliar insect control is achieved by the uptake of IMIDACLOPRID 2FL GH from a healthy root system translocating the active ingredient up into the plant.

² Root Mealybug control will require a thorough drenching of containerized media. Coverage is essential for control while minimizing the amount of leachate. Rate: 1.7 fl oz (50 mL) in 150 gallons of water.

³ Citrus Root Weevil: For use on non-bearing citrus nursery stock.

⁴ Thrips suppression on foliage only. Thrips in buds and flowers will not be suppressed.

⁵ For use only on vegetable plants intended for resale: Broccoli, Chinese Broccoli, Broccoli Raab, Brussels Sprouts, Cabbage, Chinese Cabbage, Cauliflower, Collards, Eggplant, Ground Cherry, Kale, Kohlrabi, Lettuce, Mustard Greens, Pepinos, Peppers, Potatoes, Rape Greens, Sorghum, Sugarbeets, Tomatillo, and Tomato.

Restrictions for Ebb & Flood Application:

- Do not apply more than 1.6 pt (0.4 lbs ai) per acre per year outdoors.
- Do not apply to soils which are water logged or saturated, which will not allow penetration into the root zone of the plant.

DRENCH AND IRRIGATION APPLICATIONS

For use only in greenhouse and on nursery ornamentals, vegetable plants, and interiorscape plants using soil drenches, micro-irrigation, drip irrigation, overhead irrigation, ebb and flood irrigation, or hand-held or motorized calibrated irrigation equipment.

To control:

Adelgids	Root Weevil
Aphids	Complex
Fungus Gnats ¹ (larvae only)	(Such as Apopka Weevil, Black
Japanese Beetles (adults)	Vine Weevil, Citrus Root
Lacebugs	Weevil ³)
Leaf beetles (including elm and viburnum leaf beetles)	Sort Scale Thrips (suppression)*
Leafhoppers (including glassy- winged sharpshooter)	Whiteflies
Leafminers	White Grub larvae (such as Japanese Beetle, Masked Chafers, European Chafer, Oriental Beetle, Asiatic Garden Beetle)
Mealybugs	
Psyllids	
Root mealybugs ²	

Apply to containerized plants at the following dose rates:

Herbaceous Species (including vegetable plants ⁵ at one or two plants per pot)	
Container diameter (inches)	Number of containers to treat with 1.7 fluid ounces
2	3000
3	2000
4	1500
5	1200
6	1000
7	850
8	750
9	675
10	600
11	550
12	500
Woody Perennials and Herbaceous Species (including Vegetable plants ⁵ at three or more plants per pot)	
Container diameter (inches)	Number of containers to treat with 1.7 fluid ounces

2	2000
3	1350
4	1000
5	8000
6	650
7	550
8	500
9	450
10	400
11	350
12	300
All Plants	
Container Size	Number of containers to treat with 1.7 fluid ounces
1 gallon	340 to 244
2 gallon	280 to 210
3 gallon	220 to 165
5 gallon	160 to 110
7 gallon	100 to 75
10 gallon	60 to 45
15 gallon	40 to 30
20 gallon	20 to 15

Mix specified rate in enough water to wet potting media to capacity but without leakage from the bottom of the container. Avoid over watering for 10 days after application to prevent leaching of active ingredient.

For application to ornamental and vegetable plants^s grown in flats, benches, or bed apply 1.7 fluid ounces per 3,000 square feet. Apply as a broadcast spray in enough water to uniformly cover the area being treated. Do not use less than 2 gallons of mixture per 1000 square feet. Application can be made to soil medium prior to planting or after plants are established. Avoid over watering for 10 days after application to prevent leaching of active ingredient.

NOTES:

1. Fungus gnat larvae in the soil will be controlled by drench or incorporation. No adult Fungus Gnat control. Other foliar insect control is achieved by the uptake of IMIDACLOPRID 2FL GH from a healthy root system translocating the active ingredient up into the plant.
2. Root Mealybug control will require a thorough drenching of containerized media. Coverage is essential for control while minimizing the amount of leachate. Rate: 1.7 fl oz (50 mL) in 150 gallons of water.
3. Citrus Root Weevil: For use on non-bearing citrus nursery stock.
4. Thrips suppression on foliage only. Thrips in buds and flowers will not be suppressed.
5. Note: For use only on vegetable plants intended for resale: Broccoli, Chinese Broccoli, Broccoli Raab, Brussels Sprouts, Cabbage, Chinese Cabbage, Cauliflower, Collards, Eggplant, Ground Cherry, Kale, Kohlrabi, Lettuce, Mustard Greens, Pepinos, Peppers, Potatoes. Rape Greens, Sorghum, Sugarbeets, Tomatillo, and Tomato.
6. For use only on non-bearing fruit and nut trees. Non-bearing fruit and nut trees are those that will not bear fruit or nuts within one year after application.

Restrictions for Drench and Irrigation Applications:

- Do not apply more than 1.6 pt (0.4 lbs ai) per acre per year outdoors.

- Do not apply to soils which are water logged or saturated, which will not allow penetration into the root zone of the plant.

FIELD AND FOREST NURSERIES

To control White grub larvae (such as Japanese Beetle, Masked Chafers, European Chafer, Oriental Beetle, Asiatic Garden Beetle) apply 1.7 fluid ounces per 1,000 row feet as a band 6 inches wider than the root ball on either side of the row. Do not overlap in adjacent rows.

To control grubs in turf, apply as a broadcast application 1.35 to 1.7 fluid ounces (40 to 50 mL) per 3,000 square feet.

Vegetation in the area to be treated should be mowed to a height of 3 inches or less prior to application. Mowing to the lowest possible height will insure greater consistency of control.

Apply May through July. For optimum control, treatment should be followed by rainfall or irrigation. Do not use less than 2 gallons of spray volume per 1000 square feet.

Restrictions for Field and Forest Nurseries:

- Do not apply more than 1.6 pt (0.4 lbs ai) per acre per year outdoors.
- Do not apply to soils which are water logged or saturated, which will not allow penetration into the root zone of the plant.

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