

432-1393

04/26/2007

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Imidacloprid + Cyfluthrin Greenhouse and Nursery Insecticide

FOR COMMERCIAL USE ONLY

For Broad-Spectrum Foliar and Systemic Insect Control on Ornamentals, Non-Bearing Fruit and Nut Trees, in the Greenhouse, Field and Container Nurseries and Interior Plantscapes.

ACTIVE INGREDIENTS:

Cyfluthrin.....0.70%

*Imidacloprid.....2.94%

OTHER INGREDIENTS.....96.36%

TOTAL.....100.00%

EPA Reg. No. 432-1393

EPA Est. No XXXX-AA-1

0.262 Pounds ai imidacloprid/gallon 0.062 Pounds ai cyfluthrin/gallon

*Protected by U.S. Patent No. 4,742,060

PRECAUCION AL CONSUMIDOR: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

(TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

STOP-Read This Entire Label Before Use
KEEP OUT OF REACH OF CHILDREN
CAUTION

For MEDICAL And TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577

For PRODUCT USE Information Call 1-800-334-9745

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 IN EYES:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF INHALED:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.

Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

ACCEPTED

APR 26 2007

Under the Federal Insecticide, Fungicide, and Rodenticide Act, or amended, for the pesticide registered under EPA Reg. No. 432-1393

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Cyfluthrin CAS # 68359-37-5; Imidacloprid CAS # 138267-41-3

NOTE TO PHYSICIAN: No specific antidote is available. Treat the patient symptomatically.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Causes moderate eye irritation. Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

2/11

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Applicator and other handlers must wear:

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

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

Engineering Controls Statement:

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

User Safety Recommendations:

User Should:

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

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

This pesticide 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 Cooperation Extension Service.

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

DIRECTION FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. For best results read and follow all label directions. 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.

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 intervals. 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. Exception: If the product is applied by drenching, soil injection or soil incorporation, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area 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, soils, or water, is:

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

STORAGE AND DISPOSAL

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

Storage: Store in cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original containers 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 or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed above. In spill or leak incidents, keep unauthorized people away.

Pesticide Disposal: Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Do not formulate this product into other end-use products.

Read and follow these directions, when using: Shake well before use

GENERAL INFORMATION

When used at recommended rates and as directed under Recommended Application, Imidacloprid + Cyfluthrin Greenhouse and Nursery Insecticide will control designated pests on trees, shrubs, foliage plants and flowers in greenhouses, field and container nurseries and interior plantscapes. Shake or agitate the concentrate before mixing, and add the appropriate amount of product when filling the spray tank with water.

APPLICATION:

Imidacloprid + Cyfluthrin Greenhouse and Nursery Insecticide is a systemic product and will be translocated upward into the plant system. To assure optimum effectiveness, the product must be placed where the growing portion of the target plant can absorb the active ingredient. The addition of a nitrogen containing fertilizer, where applicable, into the solution may enhance the uptake of the active ingredient. Application can be made by foliar application or soil applications; including soil injection, drenches, chemigation* and broadcast sprays. When making soil applications to plants with woody stems, systemic activity will be delayed until the active ingredient is translocated throughout the plant. For this reason, applications should be made prior to anticipated pest infestation to achieve optimum levels of control. For outdoor ornamentals, broadcast applications cannot exceed a total of 224 fl. oz. (0.62 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 + Cyfluthrin Greenhouse and Nursery Insecticide.

* When applied to soil: For use only on nursery ornamentals using soil drenches, micro-irrigation, drip irrigation, overhead irrigation, or hand-held or motorized calibration irrigation equipment.

RESISTANCE: 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. Consult your Cooperative Extension Service for resistance management strategies and recommended pest management practices for your area.

For resistance management purposes, a foliar application of any neonicotinoid insecticide following an Imidacloprid + Cyfluthrin Greenhouse and Nursery Insecticide soil application in the same crop is not recommended.

Application Equipment For Ornamentals

Imidacloprid + Cyfluthrin Greenhouse and Nursery Insecticide mixes readily with water and may be used in many types of application equipment. Mix product with the required amount of water and apply as desired dependent upon the selected use pattern.

When making foliar applications on hard to wet foliage such as holly, pine, or ivy, the addition of a spreader/ sticker is recommended. 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 + Cyfluthrin Greenhouse and Nursery Insecticide has been found to be compatible with commonly used fungicides, miticides, liquid fertilizers, and compatibility using the correct proportion of products in a small jar test if local experience is unavailable.

APPLICATION THROUGH IRRIGATION SYSTEMS

Imidacloprid + Cyfluthrin Greenhouse and Nursery Insecticide may be applied at rates recommended on the label either alone or in tank mixtures with other pesticides and chemicals registered for application through irrigation systems. The normal dilution ratio is 1:100 to 1:200, depending on the system. Always 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.

4/11

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

Apply Imidacloprid + Cyfluthrin Greenhouse and Nursery Insecticide only through microirrigation (individual spaghetti tubes), drip irrigation, overhead irrigation, 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 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.
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.

COMPATIBILITY: Imidacloprid + Cyfluthrin Greenhouse and Nursery Insecticide should be compatible with all commonly used fungicides, miticides, liquid fertilizers and other insecticides. Check physical compatibility using the correct proportion of products in a small jar if local experience is unavailable.

APPLICATION TO GRASSY AREAS IN NURSERIES

Imidacloprid + Cyfluthrin Greenhouse and Nursery Insecticide can be used for the control of soil inhabiting pests of grassy areas of nurseries, such as Northern and Southern masked chafers, *Cyclocephala borealis*, *C. immaculata*, and/or *C. lurida*; Asiatic garden beetle, *Maladera castanea*; European chafer, *Rhizotrogus majalis*; Green June beetle, *Cotinis nitida*; May or June beetle, *Phyllophaga* spp.; Japanese beetle, *Popillia japonica*; Oriental beetle, *Anomala orientalis*; Billbugs, *Sphenophorus* spp.; Black turfgrass ataenius, *Ataenius spretulus*; *Aphodius* spp. and mole crickets, *Scapteriscus* spp. Imidacloprid + Cyfluthrin Greenhouse and Nursery Insecticide can be used as directed 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 + Cyfluthrin Greenhouse and Nursery Insecticide cannot be used on commercial sod farms.

The active ingredient in Imidacloprid + Cyfluthrin Greenhouse and Nursery Insecticide has sufficient residual activity so that applications can be made preceding the egg laying activity of the target pests. High levels of control can be achieved when applications are made preceding or during the egg laying period. The need for an application can be based on historical monitoring of the site, previous records or experiences, current season adult trapping or other methods. Optimum control will be achieved when applications are made prior to egg hatch of the target pests, followed by sufficient irrigation or rainfall to move the active ingredient through the thatch.

Applications should not be made when grassy areas are waterlogged or the soil is saturated with water. Adequate distribution of the active ingredient cannot be achieved when these conditions exist. The treated grassy area must be in such a condition that the rainfall or irrigation will penetrate vertically in the soil profile. Application cannot exceed a total of 24 oz (0.62 lb of active ingredient) per acre per year.

Application Equipment for Use on Grassy Areas in Nurseries: Apply Imidacloprid + Cyfluthrin Greenhouse and Nursery Insecticide in sufficient water to provide adequate distribution in the treated area. The use of accurately calibrated equipment normally used for soil application of insecticides is required. Use equipment which will produce a uniform, coarse droplet spray, using a low pressure setting to eliminate off-target drift. Check calibration periodically to ensure that equipment is working properly.

RECOMMENDED APPLICATIONS FOR NURSERY TURF AND SOIL			
CROP	PEST	DOSAGE	REMARKS
Grassy areas of Field & Forest Nurseries	Ants Armyworms Billbugs Crickets Cutworms Earwigs Grasshoppers Hyperodes weevil (adult) Japanese beetle (adult) Mole crickets Sod webworms Ticks (including deer ticks) Weevils	3.4 - 5.6 fl oz per 1000 sq. ft. or 1.14 - 1.91 gallon/ acre or 0.37 - 0.62 lb A/A	Use the low rate for light infestation or for insects easier to control, and the high rate for heavy infestations or insects more difficult to control. Set spray equipment to dispense a coarse, large droplet. Be sure to use plenty of water to apply product evenly over soil or turf. Do not wet the foliage within one hour after applying. To avoid serious damage to plants, eliminate pests early in the season before they multiply.
	White Grub larvae (such as: Japanese Beetle, Masked Chafers, European Chafer, Oriental Beetle, Asiatic Garden Beetle)	Apply as a uniform band on either side of the row using a band width six (6) inches wider than the actual root ball diameter to be dug. Do not allow bands in adjacent rows to overlap. Use 14 fl. oz (415 ml) to 17 fl oz (502 ml) per 3,000 sq. ft. or For grub control in areas of turf, apply as a broadcast application Use 14 fl. oz (415 ml) to 17 fl oz (502 ml) per 3,000 sq. ft.	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 mid-August. For optimum control, treatment should be followed by rain fall or irrigation. Do not use less than 2 gallons of spray volume per 1000 square feet.
Avoid mowing grass until after sufficient irrigation or rainfall has occurred so that uniformity of application will not be affected.			

RECOMMENDED FOLIAR APPLICATIONS FOR ORNAMENTALS GROWN IN NURSERIES, GREENHOUSES AND INTERIOR PLANTSCAPES

For foliar insect control in greenhouses in and around field-grown nurseries and container stocks, and outdoor ornamentals, and ornamentals grown in flats, benches or beds.

CROP	PEST	DOSAGE	REMARKS
<p>Shrubs Evergreens Flowers Foliage Plants Groundcovers Trees - including Non-bearing Fruit and Nut Trees (Non-bearing fruit and nut trees are those trees that will not bear fruit or nuts for one year after application.)</p>	<p>Adelgids Aphids Japanese beetles (adult) Lace bugs Leaf-feeding Beetles (including elm and viburnum leaf beetles) Leafhoppers (including Glassy Winged Sharpshooter) Leafminers Mealybugs Pine Tip moths Psyllids Rose Midges Rose Slugs Sawfly larvae Scale insects (crawler stages) Thrips (Suppression) Weevil Complex (including Strawberry Root weevil) Whiteflies</p>	<p>25 fl. oz/100 gallons of water. (1/4 fl. oz. per gallon of water)</p>	<p>Foliar applications: Start treatments prior to establishment of high pest population and reapply on an as needed basis. Apply when pests first appear or when damage is first noticed. Spray thoroughly. Reapply at 14-28 days, if needed. The addition of a spreader sticker may enhance effect. Phytotoxicity has not been a problem with Imidacloprid + Cyfluthrin Greenhouse and Nursery Insecticide. If information concerning specific cultivars under local environmental conditions is not available, then it is advised to pre-spray a selection of plants and observe them for phytotoxicity for a minimum of seven days before making widespread applications.</p>
	<p>Ants Armyworms Azalea caterpillars Bagworms Boxeider bugs California oakworms Cankerworms Cutworms Clover mites Elm leaf beetles Elm spanworms Fungus gnats (adults) Grasshoppers Gypsy moth larvae Leaf-feeding Caterpillars Oleander moth larvae Pillbugs Pine Shoot moths Plant bugs Redhumped caterpillars Spittle bugs Striped oakworms Tent Caterpillars Tussock moth larvae Walnut caterpillars Webworms Yellownecked caterpillars</p>	<p>50 fl. oz/100 gallons of water. (1/2 fl. oz per gallon of water)</p>	<p>Make applications to flowering plants during times when pollinating insects are not present, such as early morning or late evening.</p>

RECOMMENDED DRENCH IRRIGATION AND SOIL INJECTION APPLICATIONS FOR NURSERY CROPS, GREENHOUSE AND INTERIORESCAPE PLANTS.

For systemic and contact/ingestion insect control in and around field grown nurseries, outdoor containerized ornamentals (ornamentals grown in greenhouses and interior plantscapes), and ornamentals grown in flats, benches or beds.

PESTS	CROP	DOSAGE	COMMENTS
Adelgids Aphids Armored Scale (suppression) Borers ¹ : Eucalyptus longhorned borers Flatheaded borers (including bronze birch and alder borers) Fungus Gnats (larvae only) ² Japanese beetles (adults) Lace bugs Leaf beetles (including elm and viburnum leaf beetles) Leafhoppers (including glassywinged sharpshooter) Leafminers Mealybugs Pine Tip moth larvae Psyllids Root mealybugs Root weevil complex (such as Apopka weevil, black vine weevil, Citrus root weevil ³) Royal palm bugs Rose midge Sawfly larvae Soft Scale Thrips (suppression) ⁴ Whiteflies	Shrubs Evergreens Flowers Foliage plants Ground covers Trees – including Non-bearing Fruit and Nut Trees (Non-bearing fruit and nut trees are those trees that will not bear fruit or nuts for one year after application.)	3.4 to 5.6 fl. oz/1000 ft ² or 1.14 to 1.91 gal/A	Flats: Use sufficient volume to wet most of the potting medium without loss of liquid from the bottom of the container. Use high rate for borer control and with high pest populations.
	Trees (including non-bearing fruit and nut trees) and Shrubs	0.75 to 1.5 fl. oz. (22 - 44 ml) per inch of trunk diameter breast height (D.B.H.) or per foot of shrub height (F.S.H.)	Soil Injection: Apply with evenly spaced injection holes around the base of the plant. Mix required dosage in sufficient water to inject an equal amount of solution in each hole. Maintain a low pressure and use sufficient solution for distribution of the liquid into the treatment zone. For optimum control, keep the treated area moist for 7 to 10 days. Do not use less than 4 holes per plant (tree/shrub). No soil injection Applications allowed in Nassau or Suffolk Counties of New York. Soil Drench: Uniformly apply the dosage in a minimum of 10 gallons of water per 1000 sq. Ft. as a drench around the base of plants, directed at the root zone. Remove plastic or any other barrier that will stop solution from reaching the root zone.
	Flowers and Ground Covers	3.4 to 5.6 fl oz /1000 ft ² or 1.14 to 1.91 gal/A	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

¹**Borers:** for control of specified borer. Application to trees already heavily infested may not prevent the eventual loss of the trees due to existing pest damage and tree stress.

²**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 + Cyfluthrin Greenhouse and Nursery Insecticide from a healthy root system translocating the active ingredient up into the plant.

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.

9/11

RECOMMENDED DRENCH AND IRRIGATION APPLICATIONS

For use only on greenhouse and 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.

Pest	Use Pattern		Dosage Imidacloprid + Cyfluthrin Insecticide		Remarks	
	Plants in Containers	Herbaceous Species --	Container size (inches)	No. pots treated with 14 fl oz (385 mL)		
Adelgids	Plants in Containers	Herbaceous Species --	2	3000	Use sufficient volume to wet most of the potting medium without loss of liquid from the bottom of the container. Apply according to label directions. Follow application with moderate irrigation. Irrigate carefully during the next 10 days in order to avoid loss of active ingredient due to leaching.	
Aphids			3	2000		
Fungus Gnats ¹ (larvae only)			4	1500		
Japanese Beetles (adults)			5	1200		
Lacebugs			6	1000		
Leaf beetles (including elm and viburnum leaf beetles)			7	850		
Leafhoppers (including glassy-winged sharpshooter)			8	750		
			9	675		
			10	600		
Leafminers			Woody Perennials	2		2000
Mealybugs				3		1350
Psyllids				4		1000
Root mealybugs ²				5		800
Root Weevil Complex (Such as Apopka Weevil, Black Vine Weevil, Citrus Root Weevil) ³				6		650
Soft Scale				7		550
				8		500
				9		450
				10		400
	11	350				
	12	300				
Thrips (suppression) ⁴	Herbaceous Species	Use the above woody perennial rates		Mix required amount in sufficient water to uniformly cover the area being treated. Do not use less than 2 gallons of mixture per 1000 sq. ft. Apply as a broadcast treatment and incorporate into the medium before planting or apply after plants are established. If application is made to established plants, optimum control will be attained if areas are lightly irrigated after application. Allow no leaching or runoff for 10 days after application		
Whiteflies	Ornamental plants grown in flats, benches, or beds		14 fl oz (385 mL) per 3000 square feet			
White Grub larvae (such as Japanese Beetle, Masked Chafers, European Chafer, Oriental Beetle, Asiatic Garden Beetle)						

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 + Cyfluthrin Greenhouse and Nursery Insecticide, 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: 14 fl oz (385 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.

RECOMMENDED CONTAINER DRENCH APPLICATIONS

For use only on nursery ornamental plants using soil drench.

APPLICATION INSTRUCTIONS: Use 14 fl oz (385 ml) of product in an appropriate amount of water to avoid leaching to treat the number of pots based on pot size in the table below.

Pest	Use Pattern	Dosage		Remarks
Adelgids Aphids Armored Scale (suppression) Borers: ¹ Eucalyptus longhorned borers Flathead borers (including bronze birch and alder borers) Fungus Gnats (larvae only ²) Japanese Beetle (adult) Lacebugs Leaf beetles (including elm and viburnum leaf beetles) Leafhoppers (including glassy winged sharpshooter) Leafminers Mealybugs Pine Tip moth larvae Psyllids Root Mealybugs ³ Root Weevil Complex (such as: Apopka Weevil, Black Vine Weevil, Citrus Root Weevil ⁴) Soft Scale Thrips (suppression) ⁵ Whiteflies White Grub larvae (such as: Japanese Beetle, Masked Chafers, European Chafer, Oriental Beetle, Asiatic Garden Beetle)	Containerized plants	Container Size	No. pots treated with 14 fl oz (385 ml)	Apply in sufficient water to wet the potting medium. For optimum control, make applications prior to egg hatch of the target pest. Irrigate moderately for about 10 days after application allowing the active ingredient to move into the plant. Do not allow leaching at this time. For trees and shrubs in containers greater than 20 gallons, use the rates per inch of trunk diameter or foot of shrub height.
		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	

¹ **Borers:** Application to trees already heavily infested may not prevent the eventual loss of the trees due to existing pest damage and tree stress.

² **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 + Cyfluthrin Greenhouse and Nursery Insecticide through root system by translocating the active ingredient up into the plant.

³ **Root Mealybug** control will require a thorough drench of containerized media. Coverage is essential for control while minimizing the amount of leachate. Rate: 14 fl. oz/150 gallons of water.

⁴ **Citrus Root Weevil:** For use on non-bearing citrus nursery stock.

⁵ **Thrips** suppression on foliage only. Thrips in buds and flowers will not be suppressed.

RESTRICTIONS

- Do not graze treated areas or use clippings from treated areas for feed or forage.
- Do not apply to soils which are water-logged or saturated, which will not allow the penetration of the insecticide into the root zone of the plants
- Do **not** allow leachate runoff for the first 10 days after application, in order to retain the product and facilitate full plant uptake of the active ingredient.
- For outdoor ornamentals grown in beds or turf, applications of Imidacloprid + Cyfluthrin Greenhouse and Nursery Insecticide cannot exceed a total of 244 oz (0.62 lb of active ingredient) per acre per year.
- On plants with a production cycle of less than one year, application is not to exceed a frequency of more than once each 16 weeks for a particular plant. On stock plants and woody crops with a production cycle of greater than one year, application may not exceed once a year.

Food Crops: Treated areas may be replanted with any crop specified on an imidacloprid label, or with any crop for which a tolerance exists for the active ingredient.

For crops not listed on an imidacloprid label, or for crops for which no tolerances for the active ingredient have been established, a 12-month plant-back interval should be observed.

IMPORTANT: READ BEFORE USE

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Imidacloprid + Cyfluthrin Green house and Nursery (PENDING) 04/23/07