

432-1392

03/18/2004

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Please read Instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 2-28-95



United States  
Environmental Protection Agency  
Washington, DC 20460



Registration  
Amendment  
Other

OPP Identifier Number

## Application for Pesticide - Section I

1. Company/Product Number 432-1392	2. EPA Product Manager Dan Kenny	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) <b>Imidacloprid + Cyfluthrin Insecticide</b>	PM# Team 4A	
5. Name and Address of Applicant (Include ZIP Code) Bayer Environmental Science 95 Chestnut Ridge Road Montvale, NJ 07645  <input type="checkbox"/> Check if this is a new address	6. <b>Expedited Review.</b> In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to:  EPA Reg. No. _____ Product Name _____	

## Section II

<input type="checkbox"/> Amendment - Explain Below	<input type="checkbox"/> Final printed labels in response to Agency Letter dated _____	<b>NOTIFICATION</b>  MAR 18 2004
<input type="checkbox"/> Resubmission in response to Agency Letter dated _____	<input type="checkbox"/> "Me Too" Application.	
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - explain below.	

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA. Adding US Patent Number and Disclaimer Statement.

## Section III

1. <b>Material This Product Will Be Packaged In:</b>				2. <b>Type of Container</b>	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____		
* <b>Certification must be submitted.</b>		If "yes," Unit Package wgt.	No. per container	If "yes," Package wgt.	No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) of Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other (_____)					

## Section IV

1. <b>Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)</b>		
Name Liane Stocky	Title Registration Specialist	Telephone No. (Include Area Code) 201-307-3445
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received  <b>(Stamped)</b>
2. Signature <i>Liane Stocky</i>	3. Title Registration Specialist	
4. Typed Name Liane Stocky	5. Date February 25, 2004	

# Bayer Environmental Science



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February 25, 2004

Ms. Sherada Hobgood  
US Environmental Protection Agency  
Office of Pesticide Programs (7504C)  
Registration Division  
Document Processing Desk (NOTIF)  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Hwy  
Arlington, VA 22202-4501

Dear Ms. Hobgood:

Bayer Environmental Science (BES) is notifying the agency of a minor label change. The additions of a US patent number and a disclaimer statement have been added to the labels listed below. No other changes have been made to these labels.

The following labels have been modified:

<b>Merit 1 G Greenhouse and Nursery Insecticide</b>	<b>(432-1329)</b>
<b>Merit 2 Greenhouse and Nursery Insecticide</b>	<b>(432-1369)</b>
<b>Merit 60 WSP Insecticide</b>	<b>(432-1361)</b>
<b>Imidacloprid + Cyfluthrin Insecticide</b>	<b>(432-1392)</b>

Bayer Environmental  
Science  
95 Chestnut Ridge Road  
Montvale, NJ 07645  
Phone : 201.307.9700

For each product the following documents are included:

- Completed 8570-1 application form
- 3 copies of revised labels with the changes highlighted

If you have any questions, you can contact me at (201) 307-3445 or email me at [liane.stocky@bayercropscience.com](mailto:liane.stocky@bayercropscience.com).

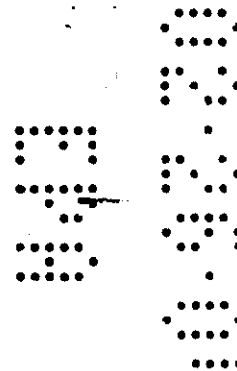
Sincerely,

Liane Stocky

Registration Specialist

Encl.

Cc: Mike Gorrell  
Mike Ruizzo



A Business Group of  
Bayer CropScience

Bayer Environmental Science



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## Imidacloprid + Cyfluthrin Insecticide

**FOR COMMERCIAL USE ONLY**

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

**Not for use in Greenhouses.**

**ACTIVE INGREDIENTS:**

Cyfluthrin.....	0.70%
*Imidacloprid.....	2.94%
<u>OTHER INGREDIENTS.....</u>	<u>96.36%</u>
	100.00%

\*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.)

EPA Reg. No. 432-1392

EPA Est. No XXXX-AA-1

Net Contents:

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**

<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"><li>• 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.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>

Have the 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.

**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.**

**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 requirement 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.

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

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

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

### GENERAL INFORMATION

IMIDACLOPRID + CYFLUTHRIN INSECTICIDE is an effective broad spectrum insecticide that provides excellent insect control on field and container ornamental pests. When used at recommended rates and as directed under Recommended Application, IMIDACLOPRID + CYFLUTHRIN INSECTICIDE will control designated pests on trees, shrubs, foliage plants and flowers in field and container nurseries. Shake or agitate the concentrate before mixing, and add the appropriate amount of product when filling the spray tank with water.

**APPLICATION:** IMIDACLOPRID + CYFLUTHRIN INSECTICIDE mixes readily with water and may be used in all types of spray equipment. Mix product with the required amount of water and apply foliar treatments as a dilute spray application to the point of run-off. When spraying hard to wet foliage such as holly, pine or ivy, the addition of a surfactant may enhance both knock-down and residual activity. 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

Do not apply this product through any type of irrigation system.

**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 chloronicotinyl insecticide following a Imidacloprid + Cyfluthrin Insecticide soil application in the same crop is not recommended.

**COMPATIBILITY:** IMIDACLOPRID + CYFLUTHRIN 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 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, *Rhizotroqus majalis*; Green June beetle, *Cotinis nitida*; May or June beetle, *Phyllophaga* spp.; Japanese beetle, *Popillia japonica*; Oriental beetle, *Anomala orientalis*; Billbugs, *Spherophorus* spp.; Black turfgrass ataenius, *Ataenius spretulus* and *Aphodius* spp. and mole crickets, *Scapteriscus* spp. Imidacloprid + Cyfluthrin Insecticide can also be used for suppression of cutworms.

Imidacloprid + Cyfluthrin 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 Insecticide cannot be used on commercial sod farms.

The active ingredient in Imidacloprid + Cyfluthrin 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 244 oz (0.62 lb of active ingredient) per acre per year.

**Application Equipment for Use on Grassy Areas in Nurseries:** Apply Imidacloprid + Cyfluthrin 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	3.4 to 4.5 fl. oz per 1000 sq. ft.	Set spray equipment to dispense a coarse, large droplet.
	Armyworms		
	Billbugs	3.4 to 5.6 fl. oz per 1000 sq. ft.	
	Crickets	ft.	Be sure to use plenty of water to apply product evenly over soil or turf.
	Cutworms		
	Earwigs	or	
	Grasshoppers		Do not wet the foliage within one hour after applying.
	Hyperodes weevil (adult)	1.14 to 1.53 gallon/ acre	
	Japanese beetle (adult)	1.14 to 1.91 gallon/ acre	
	Mole crickets	or	To avoid serious damage to plants, eliminate pests
	Sod webworms		
	Ticks (including deer ticks)	0.37 to 0.5 lb AI/A 0.37 to 0.62 lb AI/A	

	Weevils		early in the season before they multiply.
	<b>White Grub larvae</b> (such as: Japanese Beetle, Masked Chafers, European Chafer, Oriental Beetle, Asiatic Garden Beetle)	<p>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.</p> <p>Use 13.5 fl. oz (415 ml) per 1000 ft of row or 3,000 sq. ft.            or            Use 17 fl oz (502 ml) per 1000 ft of row or 3,000 sq. ft.</p> <p>For grub control in areas of turf, apply as a broadcast application</p> <p>Use 13.5 fl. oz (415 ml) per 3000 sq. ft.            or            Use 17 fl oz (502 ml) per 1000 ft of row or 3,000 sq. ft.</p>	<p>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.</p> <p>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.</p>
Do not apply more than 244 oz (0.62 lb of active ingredient) per acre per year. 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

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

CROP	PEST	DOSAGE	REMARKS
<b>Shrubs</b> <b>Evergreens</b> <b>Flowers</b> <b>Foliage Plants</b> <b>Groundcovers</b> <b>Trees - including Non-bearing Fruit and Nut Trees</b> (Non-bearing fruit and nut trees are those trees that will not bear fruit or nuts for one year after application.)	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 (Supression) Weevil Complex (including Strawberry Root weevil) Whiteflies	25 fl. oz/100 gallons of water.  (1/4 fl. oz. per gallon of water)	<b>Foliar applications:</b> 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 7-14 days, if needed. The addition of a spreader sticker may enhance effect.
	Ants Armyworms Azalea caterpillars Bagworms Boxelder 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	50 fl. oz/100 gallons of water.  (1/2 fl. oz. per gallon of water)	Phytotoxicity has not been a problem with Imidacloprid + Cyfluthrin 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.  Make applications to flowering plants during times when pollinating insects are not present, such as early morning or late evening.



**RECOMMENDED DRENCH AND SOIL INJECTION APPLICATIONS FOR NURSERY CROPS**

For systemic and contact/ingestion insect control in and around field grown nurseries, outdoor ornamentals and ornamentals grown in flats, benches or beds.

PESTS	CROP	DOSAGE	COMMENTS
Adelgids Aphids Armored Scale (suppression) Eucalyptus longhorned borers <sup>1</sup> Flatheaded borers (including bronze birch and alder borers) Fungus Gnats (larvae only <sup>2</sup> ) 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 <sup>3</sup> Root weevil complex (such as Apopka weevil, black vine weevil, Citrus root weevil <sup>4</sup> ) Royal palm bugs Sawfly larvae Soft Scale Thrips (suppression) Whiteflies	Shrubs Evergreens Flowers Foliage plants Ground covers Interior plantscapes 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 4.5 fl. oz/1000 ft <sup>2</sup> 3.4 to 5.6 fl. oz/1000 ft <sup>2</sup>  or  1.14 to 1.53 gal/A 1.14 to 1.91 gal/A	In pots or flats/ Use sufficient volume to wet most of the potting medium without loss of liquid from the bottom of the container.
	Trees	0.75 to 1.5 fl. oz. (22 - 44 ml) per inch of trunk diameter breast height (D.B. H.)	<p><b>Soil Injection:</b> GRID SYSTEM: Holes should be spaced on 2.5 foot centers, in a grid pattern, extending to the drip line of 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. BASAL SYSTEM: Space injection holes evenly around the base of the tree trunk no more than 6 to 12 inches out from the base.</p> <p>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 tree.</p> <p><b>No Soil Injection Applications Allowed in Nassau or Suffolk Counties of New York.</b></p> <p><b>Soil Drench Trees:</b> Uniformly apply the dosage in no less than 10 gallons of water per 1000 sq. Ft. as a drench</p>

			<p>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.</p> <p><b>For Control of Specified Borers:</b> Application to trees already heavily infested may not prevent the eventual loss of the trees due to existing pest damage and tree stress.</p>
	Shrubs	0.75 to 1.5 fl. oz. (22 to 44 ml) per inch of trunk diameter at breast height (D.B. H.)	<p><b>Soil Injection:</b> Apply to individual plants using dosage indicated</p> <p>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. Keep the treated area moist for 7 to 10 days. Do not use less than 4 holes per shrub.</p> <p><b>No Soil Injection Applications Allowed in Nassau or Suffolk Counties of New York.</b></p> <p><b>Soil Drench:</b> Uniformly apply the dosage in no less than 10 gallons of water per 1000 sq. ft. as a drench around the base of the shrub, directed to the root zone. Remove plastic or any other barrier that will stop solution from reaching the root zone.</p>
	Flowers and Ground Covers	3.4 to 4.5 fl oz /1000 ft <sup>2</sup> 3.4 to 5.6 fl oz/1000 ft <sup>2</sup> or 1.14 to 1.53 gal/A 1.14 to 1.91 gal/A	<p>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</p>

<sup>1</sup>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.

<sup>2</sup>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 Insecticide through root system by translocating the active ingredient up into the plant.

<sup>3</sup>Root Mealybug control will require a thorough drench of containerized media. Coverage is essential for control while minimizing the amount of leachate. Rate: 13 fl. oz/150 gallons of water

<sup>4</sup>Citrus Root Weevil: For use on non-bearing citrus nursery stock.

### RECOMMENDED DRENCH APPLICATIONS

For use only on nursery ornamental plants using soil drench.

**APPLICATION INSTRUCTIONS:** Use 13 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 Fungus Gnats Larvae <sup>1</sup> Japanese Beetle (adult) Lacebugs Leaf beetles (including elm and viburnum leaf beetles) Leafhoppers (including glassy winged sharpshooter) Leafminers Mealybugs Psyllids Root Mealybugs <sup>2</sup> Root Weevil Complex (such as: Apopka Weevil, Black Vine Weevil, Citrus Root Weevil <sup>3</sup> ) Soft Scale Thrips (suppression) <sup>4</sup> Whiteflies <b>White Grub larvae</b> (such as: Japanese Beetle, Masked Chafers, European Chafer, Oriental Beetle, Asiatic Garden Beetle)	Containerized plants	Container Size	No. pots treated with 13 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 after application to move the active ingredient into the root zone.
		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	

<sup>1</sup> **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 Insecticide from a healthy root system translocating the active ingredient up into the plant.

<sup>2</sup> **Root Mealybug** control will require a thorough drenching of containerized media. Coverage is essential for control while minimizing the amount of leachate. Rate: 13 fl. oz/150 gallons of water.

<sup>3</sup> **Citrus Root Weevil:** For use on non-bearing citrus nursery stock.

<sup>4</sup> **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 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.

## 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.

## IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of liability before using this product.

If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and should be followed carefully. However, because of manner of use and other factors beyond Bayer Environmental Science's control it is impossible for Bayer Environmental Science to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

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