

228-523

08/09/2010

1/11



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

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

8/9/2010

Nathan P. Ehresman  
Nufarm Americas, Inc.  
AGT Division  
150 Harvester Drive, Suite 200  
Burr Ridge, IL 60527

Subject: Label Notification(s) for Pesticide Registration Notices 2007-4, et al

Dear Mr. Ehresman:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 (revised April 29, 2008) for:

**EPA Registration 228-523  
Mantra 1G Greenhouse and Nursery Insecticide  
submitted 2/24/2010 (D# 430259)**

The Registration Division (RD) has conducted a review of this request for applicability under PRN 2007-4 and finds that the label change(s) requested falls within the scope of PRN-2007-4. The label has been date-stamped "Notification" and will be placed in our records.

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

Sincerely yours,

A handwritten signature in black ink, appearing to be "TCH" or similar initials.

Thomas C. Harris  
Biologist  
Insecticide Rodenticide Branch  
Registration Division (7505P)  
Harris.Thomas@epa.gov  
(703) 308-9423

2/11

Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 05-31-98

|                                                                                                                                                                                   |                                                                                                                                                      |                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|  <p><b>United States</b><br/><b>Environmental Protection Agency</b><br/>Washington, DC 20460</p> | <input type="checkbox"/> <b>Registration</b><br><input type="checkbox"/> <b>Amendment</b><br><input checked="" type="checkbox"/> <b>Other: NOTIF</b> | OPP Identifier Number |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|

**Application for Pesticide – Section I**

|                                                                                                                                                                                                                                                  |                                                                                                                                                                                              |                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 1. Company/Product Number<br><br><p style="text-align: center;"><b>228-523</b></p>                                                                                                                                                               | 2. EPA Product Manager<br><br><p style="text-align: center;"><b>Venus Eagle</b></p>                                                                                                          | 3. Proposed Classification<br><br><input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted |
| 4. Company/Product (Name)<br><b>Nufarm USA, Inc./</b><br><b>MANTRA 1G Greenhouse and Nursery</b><br><b>Insecticide</b>                                                                                                                           | PM#<br><br><p style="text-align: center;"><b>01</b></p>                                                                                                                                      |                                                                                                                |
| 5. Name and Address of Applicant (Include ZIP Code)<br><b>Nufarm Americas, Inc</b><br><b>AGT Division</b><br><b>150 Harvester Drive, Suite 200</b><br><b>Burr Ridge, IL 60527</b><br><br><input type="checkbox"/> Check if this is a new address | 6. <b>Expedited Review.</b> In accordance with FIFRA Section 3(c)(3) (b)(1), my product is similar or identical in composition and labeling to:<br>EPA Reg. No. _____<br>Product Name: _____ |                                                                                                                |

**Section – II**

|                                                                                |                                                                                        |
|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <input type="checkbox"/> Amendment – Explain below.                            | <input type="checkbox"/> Final printed labels in response to Agency letter dated _____ |
| <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.)



**LABELING NOTIFICATION: See Attached**

**Section – III**

|                                                                                                                                                                                                               |                                                                                                                                                  |                                                                                                                                                    |                                                                                                                                                                                               |                      |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--|
| 1. Material This Product Will Be Packaged In:                                                                                                                                                                 |                                                                                                                                                  |                                                                                                                                                    |                                                                                                                                                                                               | 2. Type of Container |  |
| Child-Resistant Packaging<br><input type="checkbox"/> Yes*<br><input checked="" type="checkbox"/> No                                                                                                          | Unit Packaging<br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No<br>If "Yes"<br>Unit Packaging wgt.    No. per container | Water Soluble Packaging<br><input type="checkbox"/> Yes<br><input checked="" type="checkbox"/> No<br>If "Yes"<br>Package wgt.    No. per container | <input type="checkbox"/> Metal<br><input type="checkbox"/> Plastic<br><input type="checkbox"/> Glass<br><input checked="" type="checkbox"/> Paper<br><input type="checkbox"/> Other (Specify) |                      |  |
| * <b>Certification must be submitted</b>                                                                                                                                                                      |                                                                                                                                                  |                                                                                                                                                    |                                                                                                                                                                                               |                      |  |
| 3. Location of Net Contents Information<br><input checked="" type="checkbox"/> Label <input type="checkbox"/> Container                                                                                       | 4. Size(s) Retail Container<br><br><p style="text-align: center;">5, 25, 50 lbs</p>                                                              | 5. Location of Label Directions<br><input checked="" type="checkbox"/> On Label<br><input type="checkbox"/> On labeling accompanying product       |                                                                                                                                                                                               |                      |  |
| 6. Manner in Which Label is Affixed to Product<br><input type="checkbox"/> Lithograph <input type="checkbox"/> Other<br><input checked="" type="checkbox"/> Paper glued<br><input type="checkbox"/> Stenciled |                                                                                                                                                  |                                                                                                                                                    |                                                                                                                                                                                               |                      |  |

**Section – IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)

|                                                                                                                                                                                                                                                                             |                                                 |                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Name<br><b>Nathan P. Ehresman</b>                                                                                                                                                                                                                                           | Title<br><b>Product Registration Manager</b>    | Telephone No. (Include Area Code)<br><b>919-655-0018</b>                                                                            |
| Certification<br>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 (Stamped)<br><br> |
| 2. Signature<br>                                                                                                                                                                         | 3. Title<br><b>Product Registration Manager</b> |                                                                                                                                     |
| 4. Typed Name<br><b>Nathan P. Ehresman</b>                                                                                                                                                                                                                                  | 4. Date<br><b>February 24, 2010</b>             |                                                                                                                                     |



**ATTACHMENT TO LABEL NOTIFICATION DATED February 24, 2010**

**ACTION**

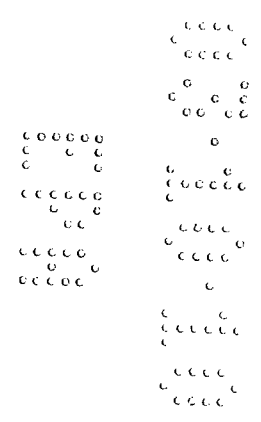
In the Storage & Disposal Section, Container Disposal language is updated as per PRN 2007-4

**This notification is consistent with the provisions of PR Notice 1998-10, PR Notice 2007-4 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 1998-10, PR Notice 2007-4 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.**



2-24-10

Nathan P. Ehresman  
Product Registration Manager



# Certification with Respect to Label Integrity

version: 9/11/02

I certify that the information (including, but not limited to, text, tables, and graphics) contained in the electronic file identified below by file name and submitted with this certification is the same information as that on the paper copies of these documents included with this submission.

| PROPOSED LABEL     |                       |                                 |
|--------------------|-----------------------|---------------------------------|
| EPA Registration # | Date Submitted to EPA | Electronic file name            |
| 000228-00523       | March 1, 2010         | 000228-00520.20100224.PRN2007-4 |

I certify that the statements that I have made on this form are true, accurate, and complete. I acknowledge that any knowingly false or misleading statements may be punishable by fine or imprisonment or both under applicable law.



Signature

03-01-2010

Date

Nathan P. Ehresman

Name (typed)

Product Registration Manager

Title

6/11

# Mantra™ 1G

## Greenhouse and Nursery Insecticide

FOR SYSTEMIC INSECT CONTROL ON ORNAMENTAL PLANTS IN GREENHOUSES, NURSERIES AND INTERIOR PLANTSCAPES.

**ACTIVE INGREDIENT:**

\*Imidacloprid ..... 1.0%

**OTHER INGREDIENTS:** ..... 99.0%

**TOTAL** ..... 100.0%

**KEEP OUT OF REACH OF CHILDREN**

### CAUTION

**SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS**

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

### NOTIFICATION

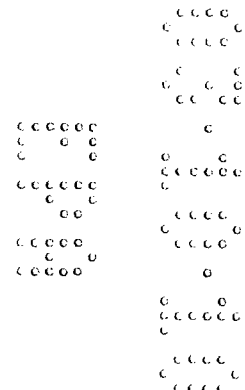
AUG 09 2010

EPA REG. NO. 228-523  
EPA EST. NO. \_\_\_\_\_

MANUFACTURED BY  
NUFARM AMERICAS INC.  
BURR RIDGE, IL 60527



NET CONTENTS \_\_\_\_\_ Lbs



**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators and other handlers must wear:

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

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:** 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.

| <b>USER SAFETY RECOMMENDATIONS</b>                                                                                                                                                                                                                                                                                                                                                                                                        |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Users Should:</b>                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| <ul style="list-style-type: none"> <li>• Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.</li> <li>• Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.</li> <li>• 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.</li> </ul> |  |

| <b>FIRST AID</b>                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>IF IN EYES</b>                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>• Hold eye open and flush slowly and gently with water for 15 to 20 minutes.</li> <li>• 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>HOT LINE NUMBER</b>                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                            |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information. |                                                                                                                                                                                                                                                                                                            |
| <b>NOTE TO PHYSICIAN</b>                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                            |
| No specific antidote is available. Treat the patient symptomatically.                                                                                                                                 |                                                                                                                                                                                                                                                                                                            |

**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.

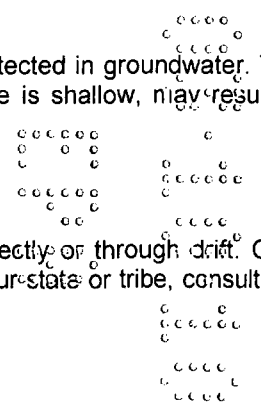
**DO NOT** contaminate water when disposing of equipment washwaters.

This 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.

**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.



### 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. Exception: If this product is applied by drenching, 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, soil, or water, is:

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

### GENERAL INFORMATION

This product is for insect control on ornamental plants in nurseries, greenhouses and interior plantscapes. This product is a systemic product and will be translocated upward within the plant. To assure optimum effectiveness, the product must be placed by incorporation where the roots of the plant can absorb the active ingredient. Irrigate moderately but thoroughly after application, allowing no leaching and runout from containers for at least three irrigations or 10 days whichever is longer.

**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.

**Incorporation:** Incorporation of this product can be achieved by cultivation, irrigation, rainfall, mechanical placement or by using mechanical soil or media mixing equipment.

**Woody Perennials:** Onset of protection is slower than in herbaceous species. A delay of 2 or more weeks should be expected. Longer delays may be expected with larger plants. Application should therefore be made in advance of expected insect activity.

**Bark Media:** Media with 30% or more bark content when treated with this product may confer a shorter period of protection.

### APPLICATION TO GRASSY AREAS IN NURSERIES

This product can be used for the control of soil inhabiting pests of grassy areas or 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, *Anomal orientalis*; Billbugs, *Spherophorus* spp.; Annual blugrass weevil, *Hyperodes* spp.; Black turfgrass *ataenius*, *Ataenius spretulus* and *Aphodius* spp. and mole crickets, *Scapteriscus* spp. This product can also be used for suppression of cutworms and chinchbugs. This product 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.

The active ingredient in this product 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.

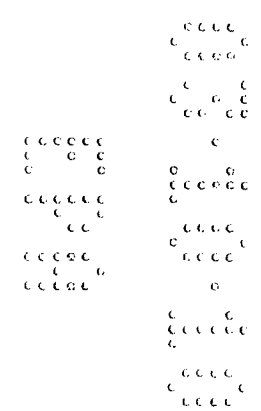
Applications should not be made when grassy areas are waterlogged or the soil is saturated with water. Adequate distribution of the active ingredient cannot be achieved when these conditions exist. The treated grassy area must be in such a condition that the rainfall or irrigation will penetrate vertically in the soil profile. Application cannot exceed a total of 40 lbs. of product (0.4 lb. of active ingredient) per acre per year.



### RECOMMENDED APPLICATIONS FOR USE

For systemic insect control on greenhouse, interior plantscapes and nursery ornamentals grown in flats, benches, beds and container.

| PEST                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | USE PATTERN                                        | DOSAGE                                       |                    |                      |                             |            | REMARKS                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------|--------------------|----------------------|-----------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                    | Container size (inches)                      | Bulk Application   |                      | Topical Application         |            |                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                    |                                              | Pots/cu.yd. of mix | Bulk Rate lbs.cu.yd. | Topical Rate level teaspoon | Grams/pot  |                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                         |
| Adelgids                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Herbaceous Species (one or two plants per pot)     | 2.0 to 3.0                                   | 4500 to 3200       | 7.0 to 3.5           | 1/8 to 1/4                  | 0.5 to 1.0 | <b>Bulk Rate Application:</b> Mix the required amount of this product per cubic yard of medium. Mix thoroughly before filling pots and transplanting.                                                                                                                                                                |                                                                                                                                                                                                                                                                         |
| Aphids                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                    | 3.5 to 5.0                                   | 1600 to 1300       | 3.9 to 3.0           | 1/4 to 1/3                  | 1.0 to 1.4 |                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                         |
| Armored scale (suppression)                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                    | 5.5 to 7.0                                   | 900 to 400         | 1.8 to 1.2           | 1/3 to 1/2                  | 1.4 to 2.0 |                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                         |
| Fungus gnats (larvae only) <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                    | 8.0 to 10.0                                  | 200 to 160         | 1.0 to 0.8           | 1/2 to 2/3                  | 2.0 to 2.7 |                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                         |
| Japanese beetles (adults)                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Woody Perennial Species                            | 11.0 to 12.0                                 | 80 to 60           | 0.8 to 0.5           | 2/3 to 1                    | 2.7 to 4.1 | <b>Topical Application:</b> May be made at transplanting, repotting, or on established containerized plants. Irrigate moderately after application to move the active ingredient into the root zone. <b>DO NOT</b> allow significant leaching and runoff for at least 3 irrigations or 10 days, whichever is longer. |                                                                                                                                                                                                                                                                         |
| Lacebugs                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                    | 2.0 to 3.0                                   | 4500 to 3200       | 9.0 to 7.0           | 1/4 to 1/3                  | 1 to 1.3   |                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                         |
| Leaf beetles (including Elm and Viburnum leaf beetles)                                                                                                                                                                                                                                                                                                                                                                                                                        | 3.5 to 5.0                                         | 1600 to 1300                                 | 6.0 to 4.0         | 1/3 to 1/2           | 1.3 to 2.0                  |            |                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                         |
| Leafhoppers (including glassy-winged sharpshooter)                                                                                                                                                                                                                                                                                                                                                                                                                            | 5.5 to 7.0                                         | 900 to 400                                   | 2.5 to 2.0         | 1/2 to 2/3           | 2.0 to 2.7                  |            |                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                         |
| Leafminers                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 8.0 to 10.0                                        | 200 to 160                                   | 1.5 to 1.0         | 2/3 to 1             | 2.7 to 4.1                  |            |                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                         |
| Mealybugs                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 11.0 to 12.0                                       | 80 to 60                                     | 1.0 to 0.8         | to 1-1/2             | 4.1 to 6.1                  |            |                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                         |
| Psyllids                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Use the above Woody Perennial Species rates        |                                              |                    |                      |                             |            |                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                         |
| Root Weevil Complex (such as Black Vine Weevil, Apopka Weevil, Citrus Root Weevil <sup>2</sup> )                                                                                                                                                                                                                                                                                                                                                                              | Ornamental plants grown in flats, benches, or beds | Apply 15 ounces per 1000 sq ft               |                    |                      |                             |            |                                                                                                                                                                                                                                                                                                                      | Apply as a broadcast treatment and incorporate into the soil or media before planting, irrigate moderately after application to move the active ingredient into the root zone. Minimize leaching and runoff for at least 3 irrigations or 10 days, whichever is longer. |
| Soft scale                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                    | 1 Gallon                                     | 260 to 230         | 5.0 to 2.5           | 1-1/4 to 2-1/2              | 5 to 10    |                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                         |
| Thrips (suppression) <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                    | 2 Gallon                                     | 125 to 100         | 4.4 to 2.2           | 2-1/2 to 5.0                | 10 to 20   |                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                         |
| Whiteflies                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                    | 3 Gallon                                     | 70 to 60           | 3.3 to 1.7           | 3-2/3 to 7-1/3              | 15 to 30   |                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                         |
| White Grub larvae (such as Japanese Beetle, Chafer, European Chafer, Oriental Beetle, Asiatic Garden Beetle)                                                                                                                                                                                                                                                                                                                                                                  | Containerized plants                               | 5 Gallon                                     | 50 to 30           | 2.0 to 1.0           | 4-1/2 to 9.0                | 18.5 to 37 | 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 level teaspoon of this product = 4.1 grams |                    |                      | 3 teaspoons = 1 tablespoon  |            |                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                         |
| <p><sup>1</sup> Fungus gnat larvae in the soil will be controlled by incorporation. No adult Fungus Gnat control. Other foliar insect control is achieved by the uptake of this product from a healthy root system translocating the active ingredient up into the plant.</p> <p><sup>2</sup> Citrus Root Weevil: For use on non-bearing citrus nursery stock.</p> <p><sup>3</sup> Thrips suppression on foliage only. Thrips in buds and flowers will not be suppressed.</p> |                                                    |                                              |                    |                      |                             |            |                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                         |



### RECOMMENDED APPLICATIONS FOR USE

For use only on nursery ornamentals.

| PEST                                                                                                                 | USE PATTERN                | DOSAGE                                                                                                                                                                                                                                                                                                                                       | REMARKS                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| White grub larvae (such as Japanese beetle, Masked Chafers, European Chafer, Oriental beetle, Asiatic Garden beetle) | Field and Forest Nurseries | Apply as a uniform band on either side of row using a band six (6) inches wider than the actual root ball diameter to be dug. <b>DO NOT</b> allow bands in adjacent rows to overlap. Use 45 oz. per 1000 ft. or row or 3000 sq. ft.<br><br>For grub control in areas of turf, apply as a broadcast application using 45 oz. per 3000 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.<br><br>Apply May through July. For optimum control, treatment should be followed by rainfall or irrigation. |

### 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. This condition will not allow the penetration of water into the root zone of the plants.

For outdoor ornamentals grown in beds or turf, applications of this product cannot exceed a total of 40 lb 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 any 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.

**PESTICIDE STORAGE:** Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, or feed. Store in original containers and out of the reach of children, preferably in a locked storage area.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide is a violation of Federal law.

**CONTAINER DISPOSAL:** Nonrefillable container. **DO NOT** reuse or refill this container. Completely empty container into application equipment. Then offer for recycling if available or place empty container in the trash.

**SPILLS:** If the container is leaking or material is 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 as directed for pesticides above, or apply uncontaminated product according to Directions For Use. Keep unauthorized people away. For chemical spill, leak, fire, or exposure, you may contact CHEMTREC at 800-424-9300.

**WARRANTY DISCLAIMER**

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