

# MARATHON<sup>®</sup> 1% Granular

GREENHOUSE and NURSERY INSECTICIDE

SPECIMEN LABEL

**For Systemic Insect Control on Ornamentals, Non-bearing Fruit and Nut Trees, and Vegetable Transplants in Greenhouses, Nurseries, and Interior Plantscapes**

**ACTIVE INGREDIENT:**

Imidacloprid ..... 1.0%

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

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

EPA Est. indicated by second and third digits of the batch number on this package.

(79)=5905-GA-1 (77)=070989-MO-001

EPA Reg. No. 59807-15

**STOP - READ THE LABEL BEFORE USE**  
**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

**FOR TRANSPORTATION EMERGENCIES ONLY**  
**CALL CHEMTREC 1-800-424-9300**

**For MEDICAL and PRODUCT USE INFORMATION**  
**CALL 1-800-356-4647**

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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

### Personal Protective Equipment (PPE)

**Applicators 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 rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton.
- Shoes plus socks
- Protective eye wear

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 statements

- 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.

FIRST AID	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 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 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 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 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>In case of emergency call toll free the OHP, Inc. Emergency Telephone No. 1-800-356-4647. Have a product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	
<p><b>Note to Physician:</b> No specific antidote is available. Treat the patient symptomatically.</p>	

### User Safety Recommendations

User should:

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

**Net Contents: 5 pounds (2.27 kg)**



## ENVIRONMENTAL HAZARDS

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

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops/plants or weeds. Do not apply this product or allow it to drift to blooming crops/plants or weeds if bees are foraging. **Do not apply this product, by any application method, to linden, basswood or other *Tilia* species.**

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 the 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 any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton.
- Shoes plus socks
- Protective eye wear

## APPLICATION INFORMATION

**MARATHON 1% Granular Greenhouse and Nursery Insecticide** is for systemic insect control on ornamentals, non-bearing fruit and nut trees, and vegetable transplants in greenhouses, nurseries and interior landscapes. **MARATHON 1%**

**Granular Greenhouse and Nursery Insecticide** 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 runoff from containers for at least three irrigations or 10 days whichever is longer.

### Resistance Management Recommendations

Some insects are known to develop resistance to insecticides after repeated use. As with any insecticide, conform the use of this product 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 **MARATHON 1% Granular Greenhouse and Nursery Insecticide** soil application in the same crop is not recommended.

**Incorporation:** Incorporation of **MARATHON 1% Granular Greenhouse and Nursery Insecticide** 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 is expected. Longer delays may be expected with larger plants. Make application in advance of expected insect activity.

**Bark Media:** Media with 30% or more bark content when treated with **MARATHON 1% Granular Greenhouse and Nursery Insecticide** may confer a shorter period of protection.

### APPLICATION TO GRASSY AREAS IN NURSERIES

**MARATHON 1% Granular Greenhouse and Nursery Insecticide** can be used for the control of soil inhabiting pests of grassy areas of nurseries, such as Northern and Southern masked chafers, *Cyclocephala borealis*, *C. immaculata*, and/or *C. lurida*; Asiatic garden beetle, *Maladera castanea*; European chafer, *Rhizotrogus majalis*; Green June beetle, *Cotinis nitida*; May or June beetle, *Phyllophaga spp.*; Japanese beetle, *Popillia japonica*; Oriental beetle, *Anomala orientalis*, *Euethola humilus rugiceps*; Billbugs, *Spherophorus spp.*; Annual bluegrass weevil, *Listronotus maculicollis*; Black turfgrass taenius, *Ataenius spretulus* and *Aphodius spp.* and mole crickets, *Scapteriscus spp.*

**MARATHON 1% Granular Greenhouse and Nursery Insecticide** can also be used for suppression of cutworms and chinchbugs. **MARATHON 1% Granular Greenhouse and Nursery Insecticide** can be used as directed on nursery grass in sites such as under or around field or container grown plants, on roadways or other grassy areas in or around nurseries.

The active ingredient in **MARATHON 1% Granular Greenhouse and Nursery Insecticide** has sufficient residual activity so that applications can be made preceding the egg laying activity of the target pests. High levels of control can be achieved when applications are made preceding or during the egg laying period. The need for an application can be based on historical monitoring of the site, previous records or experiences, current season adult trapping or other methods. Optimum control will be achieved when applications are made prior to egg hatch of the target pests, followed by sufficient irrigation or rainfall to move the active ingredient through the thatch.

Do not make applications 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 rain-fall or irrigation will penetrate vertically in the soil profile.

**Restrictions:**

- Do not use on commercial sod farms.
- Do not apply more than a total of 40 lbs of product (0.4 lbs of active ingredient) per acre per year.

DIRECTIONS FOR APPLICATIONS TO ORNAMENTALS AND VEGETABLE TRANSPLANTS								
For systemic insect control on ornamentals, non-bearing fruit and nut trees, and vegetable transplants in greenhouses nurseries and interior plantscapes. Ornamentals grown in flats, benches, beds and containers.								
<b>Restriction For Outdoor Use:</b> Do not apply this product, by any application method, to linden, basswood, or other <i>Tilia</i> species.								
PEST	USE PATTERN	DOSAGE					APPLICATION DIRECTIONS	
		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 including vegetable transplants <sup>5</sup> (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 <b>MARATHON 1% Granular Greenhouse and Nursery Insecticide</b> per cubic yard of medium. Mix thoroughly before filling pots and transplanting.  <b>Topical Application:</b> May be made at transplanting, repotting, or on established containerized plants. Irrigate moderately after application to ingredient into the root zone. Do not allow significant leaching and runoff for at least 3 irrigations or 10 days, whichever is longer.	
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)		11.0 to 12.0	80 to 60	0.8 to 0.5	2/3 to 1	2.7 to 4.1		
Lacebugs		Herbaceous Species including vegetable transplants <sup>5</sup> (three or more plants per pot)	2.0 to 3.0	4500 to 3200	9.0 to 7.0	1/4 to 1/3		1.0 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
Psyllids		Woody Perennial Species	11.0 to 12.0	80 to 60	1.0 to 0.8	1.0 to 1 1/2		4.1 to 6.1
Root Mealybugs <sup>2</sup>	1 Gallon		260 to 230	5.0 to 2.5	1 1/4 to 2 1/2	5 to 10		
Root Weevil Complex (such as Black Vine Weevil, Apopka Weevil, Citrus Root Weevil <sup>3</sup> )	Containerized greenhouse and nursery ornamentals, vegetable transplants <sup>5</sup> and interiorscape plants	2 Gallon	125 to 100	4.4 to 2.2	2 1/2 to 5.0	10 to 20		
Soft scale		3 Gallon	70 to 60	3.3 to 1.7	3 2/3 to 7 1/3	15 to 30		
Thrips (suppression) <sup>4</sup>		5 Gallon	50 to 30	2.0 to 1.0	4 1/2 to 9.0	18.5 to 37		
Whiteflies		1 Gallon	260 to 230	5.0 to 2.5	1 1/4 to 2 1/2	5 to 10		
White Grub larvae (such as Japanese Beetle, Chafers, European Chafer, Oriental Beetle, Asiatic Garden Beetle)	Non-bearing fruit and nut trees <sup>6</sup>	2 Gallon	125 to 100	4.4 to 2.2	2 1/2 to 5.0	10 to 20	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.	
		3 Gallon	70 to 60	3.3 to 1.7	3 2/3 to 7 1/3	15 to 30		
		5 Gallon	50 to 30	2.0 to 1.0	4 1/2 to 9.0	18.5 to 37		
		1 Gallon	260 to 230	5.0 to 2.5	1 1/4 to 2 1/2	5 to 10		
	Ornamental and vegetable transplants <sup>5</sup>	Containerized plants grown in flats, on benches, or in beds	Apply 15 ounces per 1000 sq ft				Apply as a broadcast treatment and incorporate into the soil or media before planting. On established plants, 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.	

1 level tsp of **MARATHON 1% Granular Greenhouse and Nursery Insecticide** = 4.1 grams 3 teaspoons = 1 tablespoon

- 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 **Marathon 1% Granular Greenhouse and Nursery Insecticide** from a healthy root system translocating the active ingredient up into the plant.
- Root Mealybug** control will require a thorough incorporation of containerized media. Coverage is essential for control while minimizing the amount of leachate. Rate: per bulk application.
- Citrus Root Weevil:** For use on non-bearing citrus nursery stock.
- Thrips** suppression on foliage only. Thrips in buds and flowers will not be suppressed.
- Note:** For use on vegetable transplants intended for resale only including: Broccoli, Chinese Broccoli, Broccoli Raab, Brussels Sprouts, Cabbage, Chinese Cabbage, Cauliflower, Collards, Eggplant, Ground Cherry, Kale, Kohlrabi, Lettuce, Mustard Greens, Pepinos, Peppers, Potatoes, Rape Greens, Sorghum, Sugarbeets, Tomatillo, and Tomato.
- Non-bearing fruit and nut trees are those trees that will not bear fruits or nuts for one year after application.

**For use only on nursery ornamentals.**

PEST	USE	DOSAGE	APPLICATION DIRECTIONS
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. Do not allow bands in adjacent rows to overlap. Use 45 oz. per 1000 ft. of row or 3000 sq. ft.  For grub control in areas of turf, apply as a broadcast applica- tion using 45 oz. per 3000 sq. ft.	Vegetation in the area to be treated must be mowed to a height of 3 inches or less prior to application. Mowing to the lowest possible height will insure greater consistency of control.  Apply May through July. For optimum control, treatment must 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.

Do not over-irrigate or allow excessive runoff to occur following an application of **MARATHON 1% Granular Greenhouse and Nursery Insecticide**.

Do not exceed a total of 40 lbs of product (0.4 lbs of active ingredient) per acre per year.

**Restriction for Outdoor Use:** Do not apply this product, by any application method, to linden, basswood or other *Tilia* species.

**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 must 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, and feed. Store in original container 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.

**Container Handling: Nonrefillable container.** Do not reuse or refill this container. Offer for recycling, if available or place in trash or in a sanitary landfill.

Handle and open container in a manner as to prevent spillage. If material is spilled for any reason or cause, carefully contain any spilled material to prevent non-target contamination. Do not walk through spilled material and dispose of as directed for pesticides above. Refer to Precautionary Statements on label for hazards associated with the handling of this material. In spill or leak incidents, keep unauthorized people away. You may contact the OHP, Inc. Emergency telephone number at 1-800-356-4647 or contact Chemtrec at 1-800-424-9300.

**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 must be followed carefully. However, because of manner of use and other factors beyond OHP, Inc.'s control it is impossible for OHP, Inc. 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.

**DISCLAIMER OF WARRANTIES:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, OHP, INC. MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of OHP, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, OHP, Inc. disclaims any liability whatsoever for special, incidental or consequential damages, resulting from the use or handling of this product.

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Marathon is a registered trademark of OHP, Inc.

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