



# TURFTHOR 0.5 G

For systemic control of insect pests of turfgrass and landscape ornamentals

<b>Active Ingredient:</b>	<b>By Wt.</b>
Imidacloprid .....	0.5%
<b>Other Ingredients:</b> .....	<b>99.5%</b>
<b>TOTAL:</b> .....	<b>100.0%</b>

EPA Reg. No. 83923-10 EPA Est. 81824-NC-001

**STOP – Read the label before use**

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

(PRECAUCION AL USUARIO: Si usted no puede leer o entender ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.)

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

For product use information call 1-866-FOR-THOR (367-8467).

**NET WEIGHT: As marked on container**

**Manufactured by:**  
**ENSYSTEX IV, Inc.**  
 Fayetteville, NC 28303

<b>FIRST AID</b>	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call 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 the poison control center or doctor.</li> <li>• Do not give anything 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>
<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.</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>HOTLINE 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 1-800-369-4352 for emergency medical treatment information.	
<b>NOTE TO PHYSICIAN</b>	
No specific antidote is available. Treat the patient symptomatically.	

### PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

## CAUTION

Harmful if swallowed or absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing dust or vapor. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

### Environmental Hazards

This pesticide 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.

The properties and characteristics of this chemical are similar to those of agrochemicals that have been detected in groundwater. Using this chemical in areas where the soil is permeable, and particularly where the water table is shallow (close to the ground surface), may result in contamination of the surrounding groundwater.

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Consult your State or Tribe for requirements specific to that jurisdiction.

**Do not apply more than 80 pounds (0.4 pounds of active ingredient) of TURFTHOR 0.5 G per acre per year for any type(s) or combination(s) of applications.**

Do not apply in greenhouses or nurseries.

Not for use on sod farm turf or grass grown for commercial seed production.

Not for use on bearing fruit or nut trees.

### STORAGE AND DISPOSAL

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

**Pesticide Storage:** Keep out of reach of children and animals. Store in a cool dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food and feed. Handle and open container in a manner so as to prevent spillage. Store in original container, 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 Disposal:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Completely empty bag into application equipment. Dispose of empty bag in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**In Case of Spill:** Contain it and keep unauthorized persons away. Avoid non-target contamination. Do not walk through spilled material. Dispose of as directed above. Contact Ensystex IV at 1-866-367-8467 or Chemtrec at 1-800-424-9300 for any assistance.

### RESTRICTIONS

Do not graze treated areas or use clippings from treated areas for feed or forage.

Do not allow runoff or puddling of irrigation water applied following application.

Do not apply this product, by any application method, to linden, basswood or other *Tilia* species in the State of Oregon.

### APPLICATION FOR TURF PESTS

TURFTHOR 0.5 G controls or suppresses a wide range of soil inhabiting turfgrass insect pests. TURFTHOR 0.5 G is not for use on turfgrass grown for sale (sod farms), commercial seed production or for research.

#### Application Sites

Permitted sites include lawns, grounds and landscapes at and/or around residences including multi-unit, commercial, office and shopping buildings and complexes, recreational areas, playgrounds, athletic fields, golf courses, cemeteries, airports and parks.

## Application Timing

The active ingredient in TURFTHOR 0.5 G, imidacloprid, has sufficiently long-lasting residual activity that applications can be made prior to egg laying by the target pest(s). Optimum control of turf pests will be achieved when application is made prior to egg hatch followed by sufficient irrigation or rainfall to move the active ingredient through the thatch and down into the underlying soil. Applications can be timed based on past experiences at the site or in the area, current results of adult monitoring/trapping or other methods.

If necessary, consult resources in horticulture in your area (such as your Cooperative Extension Service) to determine appropriate application timing.

## Post Application Watering and Mowing

Optimum control is achieved if irrigation or rainfall occurs within 24 hours after application. Uniformity of application may be adversely affected if turf is mowed prior to irrigation/rainfall occurring.

## Application Precautions and Preparations

Do not apply to turf that is frozen, waterlogged or is saturated with water. Turf in this condition will not allow the necessary vertical distribution of the active ingredient down into the soil.

TURFTHOR 0.5 G can be mixed with other dry granular insecticides, miticides, fungicides, herbicides and fertilizers. Follow the label directions of all the products mixed, making sure not to exceed the labeled application rate of any individual product in the mixture.

## Application Equipment and Methods

Apply TURFTHOR 0.5 G to turf using properly calibrated granular application equipment designed to distribute the active ingredient to the target area(s) at the indicated rate(s). Drop-type and rotary-type granular spreaders can be used to apply Turfthor 0.5 G.

## Turf Application Use Rates

Use Rate Table for TURFTHOR 0.5 G for Turf Applications	
Use Rate	Pounds per acre / Pounds per 1,000 sq. feet
A	60 ⇒ 80 pounds per acre / 1.4 ⇒ 1.8 pounds per 1,000 sq. ft.
B	80 pounds per acre / 1.8 pounds per 1,000 sq. ft.

## Turf Pests Controlled by Turfthor 0.5 G

**Use Rate A:** Larvae of Annual bluegrass weevil, Asiatic garden beetle, Billbug, Black turfgrass ateniensis, Cutworms (suppression only), European chafer, European Crane Fly, Green June beetle, Japanese beetle, Northern masked chafer, Oriental beetle, *Phyllophaga* spp., Southern masked chafer

**Use Rate B:** Chinch bug (suppression only), Mole Crickets

## Application Rates Against Specific Turf Pests

**Grubs, billbugs, annual bluegrass weevil and European crane fly:** Optimum control is obtained when application is made prior to egg hatch.

**Chinch bugs:** To maximize suppression, make application prior to the hatch of the first instar nymphs.

**Mole crickets:** Make application prior to or during the period of peak egg hatch. Apply an adulticide at the same time TURFTHOR 0.5 G is applied if adults or large nymphs are present and tunneling at the time of application.

## BROADCAST APPLICATION FOR ORNAMENTAL PESTS

TURFTHOR 0.5 G, broadcast on the ground, controls a wide range of insects on trees (including non-bearing fruit), shrubs, evergreens, flowers, foliage plants, ground covers and interior plantscapes. Non-bearing trees are perennial plants that will not produce a harvestable agricultural commodity within the next 12 months. TURFTHOR 0.5 G is not for use on plants being grown for sale, fruit, nut or commercial seed production or for research purposes.

TURFTHOR 0.5 G is a systemic insecticide meaning it will be translocated by the plant's vascular system from the roots up into the body of the plant. This means optimum effectiveness of TURFTHOR 2.5 G is realized when TURFTHOR 2.5 G is applied on the ground above the root zone of the plant to be protected. Watering after application can speed movement of the active ingredient into the plant's vascular system. Combining TURFTHOR 0.5 G with a nitrogen containing fertilizer may further accelerate or otherwise enhance the uptake of the active ingredient into the plant.

Translocation of soil directed applications made to woody stemmed plants can be delayed by up to 60 days. Optimum levels of control are realized when applications are performed sufficiently prior to anticipated pest infestations.

## Application Sites

For use on the following ornamentals: trees (including non-bearing fruit), shrubs, evergreens, flowers, ground covers, bedding plants and foliage plants. Permitted sites include landscapes, ornamental gardens, lawns, grounds, golf courses and interior plantscapes at and/or around residences including multi-unit, commercial, office and shopping buildings and complexes, recreational areas, playgrounds, athletic fields, golf courses, cemeteries, airports and parks, public and private wooded and forested areas.

## Application Precautions and Preparations

Avoid application to areas in which penetration to the root zone is unlikely to occur such as areas that are waterlogged, saturated or frozen.

TURFTHOR 0.5 G can be mixed with other granular insecticides, miticides, fungicides, herbicides and fertilizers. Follow the label directions of all the products mixed, making sure not to exceed the labeled application rate of any individual product in the mixture.

If necessary, consult resources in horticulture in your area (such as your Cooperative Extension Service) to determine appropriate application timing.

## Post Application Watering

Optimum control is achieved if irrigation or rainfall occurs within 24 hours after application.

## Application Equipment and Methods

Apply TURFTHOR 0.5 G to the ground around ornamentals using properly calibrated granular application equipment designed to distribute the active ingredient to the target area(s) at the indicated rate(s). Drop-type and rotary-type granular spreaders can be used to apply Turfthor 0.5 G.

## Broadcast Application Use Rate

Use Rate Table for TURFTHOR 0.5 G for Ornamental Applications	
1.4 ⇒ 1.8 pounds per 1,000 sq. ft.	
60 ⇒ 80 pounds per acre	

## Ornamental Pests Controlled by Broadcast Application

White grub larvae such as Japanese beetle larvae, Chafers, *Phyllophaga* spp., Asiatic garden beetle, Oriental beetle

## IMPORTANT READ BEFORE USE

**NOTICE:** Read the entire Directions for Use, Conditions of Sale, Disclaimer of Warranties and Limitations of Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

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