



# Imi-Lambda Granular T&O Insecticide

## Soil & Turf Insect Killer Granules

### ACTIVE INGREDIENTS

Imidacloprid .....	0.20%
Lambda-cyhalothrin .....	0.04%
<b>OTHER INGREDIENTS</b> .....	<b>99.76%</b>
<b>TOTAL:</b> .....	<b>100.00%</b>

**Restrictions: Not for sale, sale into, distribution and/or use in Nassau, Suffolk, Kings and Queens Counties, New York. In New York State, this product may not be applied to lawns within 100 ft. of a coastal marsh or stream that drains directly into a coastal marsh.**

STOP - Read the label before use.

## KEEP OUT OF REACH OF CHILDREN CAUTION / PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)  
See additional precautionary statements and directions for use on side/back panel.

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.</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>
HOT LINE NUMBER	
In case of Medical emergency only call (877) 325-1840. Have a product container or label with you when calling a poison control center or doctor, or going for treatment.	
NOTE TO PHYSICIAN	
No specific antidote is available. Treat the patient symptomatically.	

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

<b>EPA Reg. No. 228-610-82757</b> <small>EPA Est. No. 82757-OH-001 (Lot # Begins with MF)          EPA Est. No. 82757-MA-002 (Lot # Begins with H)          EPA Est. No. 82757-FL-001 (Lot # Begins with S)</small> <b>Net Weight 50 lbs. (22.67 kg)</b> <b>Part Code # 903194</b>	<b>Manufactured &amp; Guaranteed by:</b> <b>Turf Care Supply Corp.</b> 50 Pearl Road, Suite 200 Brunswick, OH 44212
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# 18-0-10

<b>GUARANTEED FERTILIZER ANALYSIS</b>	<b>F1612</b>
<b>TOTAL NITROGEN (N)</b> .....	18.0%
5.0% Ammoniacal Nitrogen	
13.0% Urea Nitrogen*	
<b>SOLUBLE POTASH (K<sub>2</sub>O)</b> .....	10.0%
<b>TOTAL SULFUR (S)</b> .....	6.9%
1.2% Free Sulfur	
5.7% Combined Sulfur	
<b>CHLORINE (Cl)</b> .....	7.5%
<b>IRON (Fe)</b> .....	5.0%
0.05% Water Soluble Iron	
<b>MANGANESE (Mn)</b> .....	1.0%
0.01% Water Soluble Manganese	

DERIVED FROM: Polymer Sulfur-Coated Urea, Ammonium Sulfate, Muriate of Potash, Iron Sulfate, Manganese Sulfate

\* 11.6% Slowly Available Nitrogen from Polymer Sulfur-Coated Urea

Typically, a lawn utilizes 1 to 4 lbs. of nitrogen per 1,000 sq. ft. per growing season. When applied as directed, this product provides 0.39 to 0.82 lbs. of nitrogen per 1,000 sq. ft. Contact your local Extension Service for information specific to your geographic region.
If this product is being sold in a state requiring the publication of information regarding its metal content, information regarding the contents and levels of metals in this product is available at the following website: <a href="http://www.aapfco.org/metals.htm">http://www.aapfco.org/metals.htm</a> .
It is a violation of law in Maryland, New Jersey, New Hampshire, and Virginia to apply this product to turf at a rate that results in greater than 0.7 lb per 1,000 sq. ft. of readily available nitrogen, or more than 0.9 lb per 1,000 sq. ft. of total nitrogen, with a least 20% of which shall consist of slow release nitrogen, per application. Additional restrictions apply to total nitrogen applied to turf per season.

For use around buildings and structures for the control of listed pests, including on lawns, around the base of ornamental trees and shrubs, around residential, institutional, public, commercial, agricultural and industrial buildings; and on parks, on recreational areas, and on athletic fields.

**Apply anytime spring through late summer**

**Controls many types of insects, including ants, fleas, ticks, chinch bugs & grubs**

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

**CAUTION**

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear long sleeved shirt, long pants, shoes and socks.

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**ENVIRONMENTAL HAZARDS**

This product is highly toxic to fish and aquatic invertebrates. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

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 or rinsate. Runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

This product contains a chemical with 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.

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**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Loaders, applicators and other handlers must wear:**

Long-sleeved shirt and long pants, Shoes plus socks, Applicators using hand held equipment must also wear chemical-resistant gloves made out of: barrier laminate, butyl rubber  $\geq$  14 mils, nitrile rubber  $\geq$  mils, or neoprene rubber  $\geq$  mils.

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. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

**USER SAFETY RECOMMENDATIONS:**

**Users Should:**

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

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**Use Restrictions:**

- Keep children and pets off treated area until product has been watered in and lawn is dry.
- Do not apply this product to edible growing crops or stored raw agricultural commodities used for food or feed.
- Do not allow applications to contact water inhabited by fish, such as in ornamental fish ponds that are located around structures being treated.
- Do not apply this product by aerial application.
- Do not apply near water, storm drains, or drainage ditches. Do not apply if heavy rain is expected. Apply only to your lawn or garden and sweep any product that lands on driveway, sidewalk or street back onto your lawn or garden.
- For products to be sold in Florida: Apply only to actively growing turf. Do not apply near water, storm drains, or drainage ditches. Do not apply if heavy rain is expected. Apply this product only to your lawn, and sweep any product that lands in the driveway, sidewalk, or street, back onto your lawn. Check with your local Cooperative Extension Agency to obtain specific information on local turf best management practices. Check with your county or city government to determine if there are local regulations for fertilizer use.
- Use of this pesticide adjacent to water may affect aquatic organisms. To protect these organisms, do not apply this pesticide within 25 ft. of lakes, reservoirs, rivers, permanent streams, marches or natural ponds, estuaries, and commercial fish farm ponds.
- In New York State, this product may not be applied within 100 feet of a coastal marsh, or streams that drain directly into a coastal marsh.
- All restrictions and precautions which appear on the label of this product must be followed.
- Do not apply more than 4.6 lb of this product per 1,000 square feet or 200 lb of product (0.4 lb of imidacloprid active ingredient) per acre per year.
- Not for use in commercial greenhouses, nurseries on sod farms or on grass grown for seed.

**IMPORTANT:** Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, outdoor ornamental gardens or parks, or on lawns or grounds.

**ORNAMENTALS**

This product can be used as a broadcast application on ornamentals in commercial and residential landscapes.

**APPLICATION INSTRUCTIONS**

This product is a systemic product which is translocated upward within the plant system. Follow applications with sufficient mechanical incorporation, irrigation or rainfall to move the active ingredient into the soil within 24 hours after application. Apply prior to pest infestation to achieve optimum control.

Apply as a broadcast treatment. Prior to application, remove black plastic or other weed barrier material that will not permit water permeability.

Do not allow runoff or puddling of irrigation water following application. Do not apply this product to areas which are water logged or saturated, which will not allow penetration into the root zone of the plant.

Restriction: Do not apply more than 4.6 lb of product per 1,000 sq. ft. or 200 lb of product (0.4 lb of imidacloprid active ingredient) per acre per year.

**APPLICATION EQUIPMENT**

Apply this product uniformly over the area being treated with granular application equipment. Both drop-type and rotary-type spreaders may be used to apply this product. Do not use the type of spreaders which would apply the material in concentrated bands. Calibrate application equipment prior to use according to the manufacturer's directions. Check frequently to be sure equipment is working properly and distributing granules uniformly and accurately.

APPLICATION OF THIS PRODUCT ON ORNAMENTALS For use around industrial and commercial buildings and on residential areas.		
SITE	PEST	RATE
Landscape Plantings (including ornamental trees, shrubs, evergreens, flowers, foliage plants, and ground covers)	White grub larvae (such as Japanese beetle larvae, Chafer, <i>Phyllophaga</i> spp. Asiatic garden beetle, Oriental beetle)	2 - 3 lbs per 1,000 sq ft

### INFORMATION

For use on turfgrass in residential lawns, business and office complexes, shopping complexes, multi-family residential complexes, golf courses, airports, cemeteries, parks, playgrounds, and athletic fields to control soil inhabiting pests as listed in the table below. This product can also be used for the suppression of cutworms in turfgrass areas.

### CONTROL OF GRUBS AND SOIL INSECTS IN TURFGRASS

Effective control can be achieved when applications are made before or during the egg laying period. The timing of applications can be based on historical monitoring of the site, previous records or experiences, current season adult trapping or other methods.

For best control apply prior to egg hatch of the target pests. Allow rainfall or irrigate sufficiently within 24 hours after application to move the active ingredient through the thatch.

Do not make applications when turfgrass areas are waterlogged or the soil is saturated with water. Adequate distribution of the active ingredient cannot be achieved when these conditions exist. The area to be treated must be able to accept vertical penetration of rainfall or irrigation water. Do not mow turf or lawn area until after sufficient irrigation or rainfall has occurred so that uniformity of application will not be affected.

Consult your local State Agricultural Experiment Station or State Extension Turf Specialists for more specific information regarding timing of application.

### APPLICATION EQUIPMENT

Apply this product uniformly over the area being treated with granular application equipment. Both drop-type and rotary-type spreaders may be used. Do not use spreaders which apply the material in concentrated bands. Calibrate application equipment prior to use according to the manufacturer's directions. Check frequently to be sure equipment is working properly and distributing granules uniformly and accurately.

RATES OF THIS PRODUCT FOR GRUB AND SOIL INSECT CONTROL ON TURFGRASS		
PEST	USE DIRECTIONS	RATE
<b>Larvae of:</b> European Crane Fly, ( <i>Tipula paludosa</i> ) Annual bluegrass weevil, ( <i>Hyperodes</i> spp.) Green June Beetle, ( <i>Cotinis nitida</i> ); May or June beetle, ( <i>Phyllophaga</i> spp.); Asiatic garden beetle, ( <i>Maladera castanea</i> ) Japanese Beetle, ( <i>Popillia japonica</i> ) Billbug, ( <i>Spherophorus</i> spp.) Northern masked chafer and Southern masked chafer, ( <i>Cyclocephala borealis</i> , <i>C. immaculata</i> , and/or <i>C. lurida</i> ) Black turfgrass ataenius, ( <i>Ataenius spretulus</i> and <i>Aphodius</i> spp.) Oriental Beetle, ( <i>Anomala orientalis</i> ) Cutworms (suppression) European chafer, ( <i>Rhizotrogus majalis</i> )	For control of grubs, billbugs, european crane fly and annual bluegrass weevil, make application prior to egg hatch of the target pest.	3.4 - 4.6 lb per 1,000 sq ft  (150 - 200 lbs per acre)
Chinchbug Mole Crickets, ( <i>Scapteriscus</i> spp.)	For control of chinchbugs, make application prior to hatching of the instar nymphs.  For control of mole crickets make application prior to or during the peak egg hatch period. When adults or large nymphs are present and actively tunneling, apply with a remedial insecticide.	4.6 lb per 1,000 sq ft  (200 lbs per acre)

### LAWN AND PERIMETER PEST CONTROL

This product may be used for applications to maintain outdoor areas where turf and ornamental ground covers are grown such as residential landscaped areas and non residential landscapes around institutional, public, and commercial buildings, and on parks, recreational areas, and athletic fields. Use this product with suitable application equipment to ensure uniform coverage over the treatment area. The application rates listed in the table below will provide control of the respective pests under typical conditions.

### APPLICATION INSTRUCTIONS

Use the higher listed rate for longer length of control. Watering (irrigation or rainfall) following application will dissolve the granules and release the insecticide. Uniform coverage is necessary to provide the most effective level of control. Consult your state university or local Cooperative Extension Service office for specific pest control application timing in your area. Start application to turf prior to the establishment of high insect pest populations and significant turf damage. Make reapplications as necessary to keep pest populations under control, using higher rates as pest pressure increases.

TREATMENT	PEST	Rate of Product Per 1000 ft <sup>2</sup>	Rate of Product per Acre
<b>Band Treatment Along Foundation</b> (not to exceed 3 ft from foundation; only over soil or plants)	Ants (Southern, Field, Allegheny Mound, Cornfield, Honey, Pavement, Nuisance and Fire Ants) (excluding carpenter and pharaoh) Beetles Crickets Earwigs Firebrats Fleas Millipedes Mites Ticks	2.2 - 3.3 lbs.	97 - 144 lbs.
<b>Lawn Application</b>	Ants (Southern, Field, Allegheny Mound, Cornfield, Honey, Pavement, Nuisance and fire ants) (excluding carpenter and pharaoh) Armyworms (Fall & Yellow-striped) Crickets Cutworms Earwigs European Crane Flies Fleas Grasshoppers Green June Beetles Japanese Beetle (Adult)	2.2 - 3.3 lbs.	97 - 144 lbs.

	Leafhoppers Millipedes Mites Lawn moths (Sod webworms) Spider Mites (Twospotted, Spruce) Spittlebugs Springtails Ticks		
<b>Lawn Application</b>	Billbugs Chinch Bugs Dung beetles* Green June beetle grubs* Hyperodes weevils Japanese beetle grubs* Mole Crickets	3.3 – 4.4 lbs	144 – 194 lbs.
<b>Spot Treatment</b> (Not for Use in California)	Ants (excluding carpenter and pharaoh)	Apply 1 teaspoon to ½ cup over, and 2 ft. around each ant mound	

\* Suppression only

## SPECIFIC USE INSTRUCTIONS

### Treatment around Foundations

To control listed pests normally found around or near foundations of houses, as well as in lawns, and certain of these pests that may enter houses.

PEST	RATE	USE INSTRUCTIONS
Ants (Southern, Field, Allegheny Mound, Cornfield, Honey, Pavement, Nuisance and Fire Ant) (excluding carpenter and pharaoh) Beetles Crickets Earwigs Firebrats Fleas Millipedes Mites Ticks	Apply at the rate of 2.2 lb to 3.3 lb per 1,000 sq. ft. (an area 5' x 200') oz.  or  3.5 oz. to 5.3 oz. per 100 sq. ft. (10' x 10').	Apply up to a 3 foot band of granules next to the house foundation and completely distribute the granules. Water lightly immediately following application.  Treat when insects first appear or when you notice lawn damage.  Remove leaf litter and debris from the foundation area. Cut back branches and vegetation that touch the foundation. Rake away other potential pest harborage sites, such as deep mulch before application.

### Lawn Application

PEST	RATE	USE INSTRUCTIONS
Ants (Southern, Field, Allegheny Mound, Cornfield, Honey, Pavement, Nuisance, and Fire Ants) (excluding carpenter and pharaoh) Armyworms (Fall & Yellow-striped) European Crane Flies Crickets Cutworms Earwigs Fleas Lawn moths (sod webworms) Grasshoppers Japanese beetle (adults) Spittlebugs Mites Green June Beetles Leafhoppers Millipedes Springtails Ticks	Apply at the rate of 2.2 lb to 3.3 lb per 1,000 sq. ft. (an area 20' x 50')  or  3.5 oz. to 5.3 oz. per 100 sq. ft. (10' x 10').	Apply with a fertilizer spreader (see spreader setting chart). Apply when grass is dry and water the lawn lightly immediately following application.  Treat when insects first appear or when you notice lawn damage.
Billbugs Grubs (Japanese beetle grubs, Green June Beetle Grubs) <i>Ataenus spretulus</i> (dung beetles) Hyperodes Weevils Chinch bugs Mole Crickets	Apply 3.3 lb. per 1,000 sq. ft. of lawn.	Water grass completely immediately following application.  Treat when insects first appear or when you notice lawn damage.  For <b>hyperodes weevils</b> , apply in April-May.  For <b>billbug control</b> , apply in May when activity is first observed or when chewed or brown grass indicates damage from these insects.  For <b>grub control</b> , except on dung beetle, treat any time between late July and early October.  For <b>dung beetle grub control</b> , apply in early spring or early summer (March-July) when damage is first noticed. Immediately following application, completely water grass with ¼ to ½ inch of water. If a second generation occurs, treat again in late summer or early fall.  For <b>chinch bug control</b> , apply during the summer when both nymphs and adults may be present.  For <b>mole crickets</b> apply in the early spring for control of adults when actively invading grass areas. If the soil is dry, water before application to bring mole crickets closer to the surface and in contact with the granules. Apply late in the day and water in following application. For control of early nymphal stages, apply at the time of peak egg hatch. As the nymphs mature, higher rates may be necessary.

### Spot Treatment for Ant Mounds (Not For Use In California)

PEST	RATE	USE INSTRUCTIONS
Ants (Southern, Field, Allegheny Mound, Cornfield, Honey, Pavement, Nuisance, and Fire Ants) (excluding carpenter and pharaoh)	Apply 1 teaspoon to ½ cup over, and 2 ft. around each ant mound	Use both broadcast and spot treatment for difficult to large ant infestations. If soil is dry, water lightly before application to bring the ants closer to the surface for better control. Immediately following application, water in completely. Apply a minimum of 1 gallon of water to each mound area. To prevent the disturbance of ants, water gently. Use of high pressure watering equipment may disturb the ants and cause migration, reducing product effectiveness. For best results, apply in cool weather, 65°-80° F, or in early morning or late evening hours. Treat new mounds as they appear.

### Spreader settings for Lawn Application

The follow chart can be used as a guide to establish an accurate rate of this product. Application rates will vary depending on speed, equipment wear, and condition of spreader. Carefully calibrate application equipment prior to use of this product.

Make & Model	3.3 lb/ 1,000 sq. ft.
Scotts® R8-A Rotary	J
Earthway® EV-N-SPRED® Rotary	14.5
LESCO® Rotary 80 & 100# (Calibration gauge)	14

*NOTE: The spreader settings stated are approximate. Precisely weigh a few pounds into your spreader and apply to a measured area. To assure correct rate of application, adjust spreader settings if needed.*

Sweep (do not wash) all fertilizer materials from surfaces immediately after application, because certain fertilizer ingredients can cause permanent stains. Wash out spreader over the treated area after each use and allow it to dry thoroughly. Treat any exposed metal spreader areas with oil to reduce corrosion.

### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in original container. Keep area inaccessible to children and pets.

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

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment, then offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration.

### WARRANTY DISCLAIMER

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

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If you do not agree with or do not accept any of directions for use, the warranty disclaimers, or limitations on liability, do not use the product, and return it unopened to the Seller, and the purchase price will be refunded.



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