



Quality Turf & Ornamental Products

# Imidacloprid 0.5G

## Insecticide

**For systemic insect control in turfgrass and landscape ornamentals.**  
Contains imidacloprid, the active ingredient in MERIT® 0.5 G INSECTICIDE.  
Quali-Pro® Imidacloprid 0.5G is not manufactured or distributed by Bayer.

<b>ACTIVE INGREDIENT:</b>		<b>% BY WT.</b>
Imidacloprid, 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine	.....	0.5%
<b>OTHER INGREDIENTS:</b>	.....	99.5%
<b>TOTAL:</b>	.....	100.0%

EPA Reg. No. 66222-200

## KEEP OUT OF REACH OF CHILDREN

# CAUTION

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>
<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 soap and water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have a product container or label with you when calling a poison control center or doctor or going for treatment. For medical emergencies involving this product, contact Prosar at 1-877-250-9291.</p>	
<p><b>NOTE TO PHYSICIAN:</b> No specific antidote is available. Treat the patient symptomatically.</p>	

For additional precautionary, handling, and use statements, see inside of this booklet.

Manufactured for: **Makhteshim Agan of North America, Inc.**  
4515 Falls of Neuse Road, Suite 300  
Raleigh, NC 27609

EPA 062311/Rev D

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

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

**USER SAFETY RECOMMENDATIONS**

**Users 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. As soon as possible, wash thoroughly and change into clean clothing. If wearing gloves, wash the outside of gloves before removing.

**ENVIRONMENTAL HAZARDS**

This product is highly toxic to aquatic invertebrates. Do not apply directly to water, 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 formulate this product into other end-use products.

**RESTRICTIONS:** Not for use in commercial greenhouses, nurseries, on sod farms, or on grass grown for seed. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior landscapes, ornamental gardens or parks, or on golf courses or lawns and grounds.

**STATE SPECIFIC RESTRICTIONS:**

The state of Arizona has not approved this product for use on agricultural sites. Do not use this product on uses considered by the Arizona statutes to be agricultural uses.

**TURFGRASS**

Quali-Pro® Imidacloprid 0.5G is for use on turfgrass in home 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. Quali-Pro Imidacloprid 0.5G can also be used for the suppression of cutworms and chinch bugs in turfgrass areas.

**Application Instructions**

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, followed by sufficient irrigation or rainfall to move the active ingredient through the thatch.

**RESTRICTIONS:** Follow treatment by rainfall or irrigation within 24 hours after application to move the active ingredient through the thatch. Do not make applications when turfgrass areas are water-logged 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.

Do not apply more than 80 lb (0.4 lb of active ingredient) per acre per year.

**Application Equipment**

Apply Quali-Pro Imidacloprid 0.5G 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 narrow, 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.

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

<b>APPLICATIONS OF QUALI-PRO IMIDACLOPRID 0.5G ON TURFGRASS</b>		
<b>PEST</b>	<b>USE DIRECTIONS</b>	<b>RATE</b>
<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>Sphenophorus</i> spp.) Northern masked chafer and Southern masked chafer ( <i>Cyclocephala</i> <i>borealis</i> , <i>C. immaculata</i> , and/or <i>C. lurida</i> ) Black turfgrass ateniinus ( <i>Ataenius spretulus</i> and <i>Aphodius</i> spp.) Oriental beetle ( <i>Anomala orientalis</i> ) Cutworms (suppression) European chafer ( <i>Rhizotrogus majalis</i> )	For optimum control of grubs, billbugs, European crane fly, and annual bluegrass weevil, make application prior to egg hatch of the target pest.	60 to 80 lb per acre or 1.2 to 1.8 lb per 1000 sq ft

APPLICATIONS OF QUALI-PRO IMIDACLOPRID 0.5G ON TURFGRASS		
PEST	USE DIRECTIONS	RATE
Chinch bug (suppression) Mole crickets ( <i>Scapteriscus</i> spp.)	For suppression of chinch bugs, 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, application should be accompanied by a curative insecticide.	80 lb per acre or 1.8 lb per 1000 sq ft

#### ORNAMENTALS

Quali-Pro Imidacloprid 0.5G can be used as a broadcast application on ornamentals in commercial and residential landscapes.

#### Application Instructions

Quali-Pro Imidacloprid 0.5G 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. Irrigate within 24 hours after application if rainfall has not occurred. 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.

**NOTES:** Do not allow runoff or puddling of irrigation water following application. Do not apply Quali-Pro Imidacloprid 0.5G to areas which are waterlogged or saturated, which will not allow penetration into the root zone of the plant.

Do not apply more than 80 lb (0.4 lb of active ingredient) per acre per year.

#### Application Equipment

Apply Quali-Pro Imidacloprid 0.5G uniformly over the area being treated with granular application equipment. Both drop-type and rotary-type spreaders may be used to apply Quali-Pro Imidacloprid 0.5G. Do not use the type of spreaders which would apply the material in narrow, 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 QUALI-PRO IMIDACLOPRID 0.5G ON ORNAMENTALS		
For use only in and around industrial and commercial buildings and residential areas.		
CROP	PEST	RATE
Landscape Plantings (including trees, shrubs, evergreens, flowers, foliage plants, and ground covers)	White grub larvae (such as Japanese beetle larvae, Chafers, <i>Phyllophaga</i> spp., Asiatic garden beetle, Oriental beetle)	1.4 to 1.8 lb per 1000 sq ft

#### Spreader Settings

The following chart can be used as a guide in establishing an accurate rate of Quali-Pro Imidacloprid 0.5G. Application rates will vary depending upon speed, equipment wear, and condition of spreader. Carefully calibrate application equipment prior to commercial use of this product.

SPREADER	SPEED (mph)	SETTINGS	
		60 lb/acre	80 lb/acre
Cyclone Model CB4000	3	3 ¼	3 ½
Earthway Drop	3	9	10
Earthway 10' Rotary	3	11	12
GandyTurf Tender 24"	3	16	19
GandyTurf Tender 42"	3	21	23
Lely	4.5	3.5	-
Lesco Model 6000	3	B ½	C
PSB Prizelawn CBR-II	3	3 ¼	3 ½
Scott's Proturf R-8A	3	H	I
Scott's Proturf SR-1	3	H	I
Scott's PF-1, PF-2, PF-3, PF-4 Drop	3	4	4 ½
Scott's SS-1 Drop	3	4	4 ½
Spyker Model 34	3	3.1	3.2
Vicon Model PS-203	4.5	13	16

#### RESTRICTIONS

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 (rigid-fifty lbs or less):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap.

Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Quali-Pro is a registered trademark of Makhteshim Agan of North America, Inc.

Merit is a registered trademark of Bayer.

### **LIMITATION OF WARRANTY AND LIABILITY**

Read the entire directions for use, conditions 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, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Makhteshim Agan of North America, Inc. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** To the extent consistent with applicable law, Makhteshim Agan of North America, 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 Makhteshim Agan of North America, 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, Makhteshim Agan of North America, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

**LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Makhteshim Agan of North America, Inc.'s election, the replacement of product.