

QUALI-PRO

Quality Turf & Ornamental Products



STATE OF HAWAII
Department of Agriculture

ACCEPTED

LICENSE NO.

8275.54

Imidacloprid 1G **DISC.**

Nursery & Greenhouse Insecticide

A systemic insecticide for use on ornamental plants in greenhouses, nurseries, and interior plantscapes.

ACTIVE INGREDIENT:

Imidacloprid, 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine 1.0%

OTHER INGREDIENTS: 99.0%

TOTAL: 100.0%

% BY WT.

EPA Reg. No. 66222-201

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID

IF IN EYES:

- 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.
- Call a poison control center or doctor for treatment advice.

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of soap and water for 15 to 20 minutes.
- Call a poison control center or doctor for treatment advice.

HOT LINE NUMBER

Have the 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.

NOTE TO PHYSICIAN

No specific antidote is available. Treat the patient symptomatically.

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

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 or pets off treated area until spray is 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

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(4)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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 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

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.

USE INFORMATION

Quali-Pro Imidacloprid 1G Nursery & Greenhouse Insecticide will control insects on ornamental plants grown in nurseries and greenhouses. Quali-Pro Imidacloprid 1G Nursery & Greenhouse Insecticide is a systemic insecticide that is translocated upwards within the plant. For best results, Quali-Pro Imidacloprid 1G Nursery & Greenhouse Insecticide must be applied where the roots of the target plants can absorb the active ingredient. After application, irrigate moderately but thoroughly, being sure to avoid leaching and runoff from the container for at least three irrigations or 10 days, whichever is longer.

Use Precautions:

- Do not graze treated areas or use clippings from treated areas for feed or forage.
- Do not apply to soils which are waterlogged or saturated. This condition will not allow penetration of water into the root zone of the plants.
- Do not over-irrigate or allow excessive runoff to occur following an application of Quali-Pro Imidacloprid 1G Nursery & Greenhouse Insecticide.
- Do not apply more than 40 lbs. of Quali-Pro Imidacloprid 1G Nursery & Greenhouse Insecticide 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 an imidacloprid label or for crops for which no tolerance for the active ingredient has been established, a 12-month plant-back interval must be observed.

Insect Resistance: After repeated use of a particular insecticide, some insects may develop a resistance. It is important that the use of this product conforms to resistance-management practices established for the use area. Consult your Cooperative Extension Service for resistance-management strategies and recommended pest-management practices for your area.

Do not make a foliar application of any chloronicotinyl insecticide following Quali-Pro Imidacloprid 1G Nursery & Greenhouse Insecticide soil application to the same crop.

Woody Perennials: Protection in woody perennials is slower than in herbaceous species, and a delay of 2 or more weeks should be expected, with longer delays for larger plants. Because of this, make applications to woody perennials well in advance of expected insect activity.

Incorporation: Incorporation of Quali-Pro Imidacloprid 1G Nursery & Greenhouse Insecticide can be accomplished by cultivation, irrigation, rainfall, mechanical placement, or by using mechanical soil or media-mixing equipment.

Bark Media: When treating bark media with 30-50% or more bark content, the period of protection with Quali-Pro Imidacloprid 1G Nursery & Greenhouse Insecticide will be shortened.

APPLICATION TO GRASSY AREAS IN NURSERIES

Restriction: Quali-Pro Imidacloprid 1G Nursery & Greenhouse Insecticide may not be used on commercial sod farms.

Quali-Pro Imidacloprid 1G Nursery & Greenhouse Insecticide will control soil-inhabiting pests in grassy areas in or around nurseries such as under or around field or container-grown plants, on roadways, or other grassy areas. The need for an application can be based on historical monitoring of the site, previous records or experiences, current-season adult trappings, or other methods. Applications may be made preceding the egg-laying activity of the target pests, and high levels of control may be achieved when applications are made preceding or during the egg-laying period. For best results, make applications prior to egg hatch of the target pests, followed by sufficient irrigation or rainfall to move the active ingredient through the thatch.

PESTS CONTROLLED	
Annual bluegrass weevil (<i>Hyperodes</i> spp.)	Asiatic garden beetle (<i>Maladera castanea</i>)
Billbugs (<i>Sphenophorus</i> spp.)	European chafer (<i>Rhizotrogus majalis</i>)
Green June beetle (<i>Cotinis nitida</i>)	Japanese beetle (<i>Popillia japonica</i>)
May or June beetle (<i>Phyllophaga</i> spp.)	Japanese beetle (<i>Popillia japonica</i>)
Oriental beetle (<i>Anomala orientalis</i>)	Mole crickets (<i>Scapteriscus</i> spp.)
Northern and Southern masked chafers (<i>Cyclocephala borealis</i> , <i>C. immaculata</i> , and/or <i>C. lurida</i>)	Black turfgrass ateniuss (<i>Ataenius spretulus</i> and <i>Aphodius</i> spp.)
PESTS SUPPRESSED	
Cutworms	Hairy chinch bugs

Grassy-Area Use Precautions

- Applications must NOT exceed a total of 40 lbs. (0.4 lb. of active ingredient) per area per year.
- Do not make applications when grassy areas are waterlogged or the soil is saturated with water because 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 TO ORNAMENTALS GROWN IN FLATS, BENCHES, BEDS, AND CONTAINERS

Quali-Pro Imidacloprid 1G Nursery & Greenhouse Insecticide will suppress or control the following insect pests when applied to ornamentals grown in flats, benches, beds, and containers in greenhouses and nurseries.

Adelgids	Aphids
Armored scale (suppression)	Fungus gnats (larvae only) ¹
Japanese beetles (adults)	Lacebugs
Leafminers	Mealybugs
Psyllids	Root weevil
Soft scale	Complex (such as Black Vine weevil, Apopka weevil, Citrus Root weevil) ²
Whiteflies	Leaf beetles (including Elm and Viburnum leaf beetles)
Leafhoppers (including glassy-winged sharpshooter)	Thrips (suppression) ³

¹ Fungus gnat larvae in the soil will be controlled by incorporation. Quali-Pro Imidacloprid 1G Nursery & Greenhouse Insecticide will not control adult fungus gnat. Other foliar insect control is achieved by the uptake of Quali-Pro Imidacloprid 1G Nursery & Greenhouse Insecticide from a healthy root system translocating the active ingredient up into the plant.

² Citrus Root weevil: For use on non-bearing nursery stock.

³ Thrips suppression on foliage only. Thrips in buds and flowers will not be suppressed.

1 level teaspoon of Quali-Pro Imidacloprid 1G Nursery & Greenhouse Insecticide = 4.1 grams

3 teaspoons = 1 tablespoon

HERBACEOUS AND WOODY PERENNIAL SPECIES

Herbaceous Species (one or two plants per pot)				
Container Size (inches)	Application Rates			
	Bulk Application		Topical Application	
	Pots/cu. yd. of mix	Bulk Rate lbs./cu. yard	Topical Rate (level teaspoonful)	Grams/pot
2.0 to 3.0	4500 to 3200	7.0 to 3.5	1/8 to 1/4	0.5 to 1.0
3.5 to 5.0	1600 to 1300	3.9 to 3.0	1/4 to 1/3	1.0 to 1.4
5.5 to 7.0	900 to 400	1.8 to 1.2	1/3 to 1/2	1.4 to 2.0
8.0 to 10.0	200 to 160	1.0 to 0.8	1/2 to 2/3	2.0 to 2.7
11.0 to 12.0	80 to 60	0.8 to 0.5	2/3 to 1	2.7 to 4.1
Woody Perennial Species or Herbaceous Species (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 to 1.3
3.5 to 5.0	1600 to 1300	6.0 to 4.0	1/3 to 1/2	1.3 to 2.0
5.5 to 7.0	900 to 400	2.5 to 2.0	1/2 to 2/3	2.0 to 2.7
8.0 to 10.0	200 to 160	1.5 to 1.0	2/3 to 1	2.7 to 4.1
11.0 to 12.0	80 to 60	1.0 to 0.8	up to 1 1/2	4.1 to 6.1

Bulk Rate Application: Mix the required amount of Quali-Pro Imidacloprid 1G Nursery & Greenhouse Insecticide per cubic yard of medium. Mix thoroughly before filling pots and transplanting.

Topical Application: May be made at transplanting, repotting, or on established containerized plants. Irrigate moderately after application into the root zone. Do not allow significant leaching and runoff for at least 3 irrigations or 10 days, whichever is longer.

CONTAINERIZED PLANTS

Container Size (Gallons)	Application Rate			
	Bulk Application		Topical Application	
	Pots/cu. yd. of mix	Bulk Rate lbs./cu. yard	Topical Rate (level teaspoonful)	Grams/pot
1	260 to 230	5.0 to 2.5	1 1/4 to 2 1/2	5 to 10
2	125 to 100	4.4 to 2.2	2 1/2 to 5.0	10 to 20
3	70 to 60	3.3 to 1.7	3 2/3 to 7 1/3	15 to 30
5	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.

ORNAMENTAL PLANTS GROWN IN FLATS, BENCHES, OR BEDS

Application Rate	Application Instructions
15 oz. 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.

FOR CONTROL OF WHITE GRUB LARVAE* ON ORNAMENTALS IN FIELD AND FOREST NURSERIES

Application Rate	Application Instruction
Use 45 oz. per 1000 sq. ft. of row or 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 ensure greater consistency of control. For grub control in areas of turf, apply as a broadcast application using 45 oz. per 3000 sq. ft. Apply May through July. For optimum control, follow treatment by rainfall or irrigation. 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.

*White grub larvae include Japanese beetle, Masked chafer, Oriental beetle, and Asiatic Garden beetle.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in 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 (flexible-bag-all weights): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Then offer for recycling or dispose of in a sanitary landfill, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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.

Nonrefillable Container (rigid-greater than fifty lbs): 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. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. 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.

Refillable Container: Refillable container. Refill this container with imidacloprid only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

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, seed of low quality or low vigor or low germination, or environmental conditions during seed storage, 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.

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