



Provides up to 12 months of systemic protection against listed damaging insects including borers, beetles and adelgids.

Active Ingredient:	
Imidacloprid,	
1-[[6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine	21.4%
Other Ingredients:.....	78.6%
Total:.....	100.0%

Contains 2 pounds of imidacloprid per gallon.

SHAKE WELL BEFORE USING

KEEP OUT OF REACH OF CHILDREN. CAUTION

SEE FIRST AID & ADDITIONAL PRECAUTIONARY STATEMENTS INSIDE BOOKLET

EPA Reg. No. 74779-14

EPA Est. No. 63416-MN-1

Net Contents: 8 Fluid Ounces (236.6 ml)

Not For Sale, Use or Distribution In or Into Nassau, Suffolk, Kings or Queens Counties, New York.



Distributed By:

Rainbow Treecare Scientific Advancements/PlantCare Science
11571 K-Tel Drive Minnetonka, MN 55343 www.plantcarescience.com

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FIRST AID	
IF SWALLOWED	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
IF IN EYES	<ul style="list-style-type: none"> 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.
<p>In case of emergency call CHEMTREC toll free at 1-800-424-9300. Have a product container or label with you when calling a poison control center or, doctor, or going for treatment.</p> <p>NOTE TO PHYSICIAN: No specific antidote is available. Treat the patient symptomatically.</p>	

For questions or comments, call toll-free 1-877-814-3274 or visit us online at www.plantcarescience.com

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.

Applicators and Other Handlers Must Wear:

1. Long-sleeved shirt and long pants
2. Chemical resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride (PVC) or viton. If you want more options, follow the instructions for category A on an EPA chemical-resistant category chart.
3. Shoes plus socks

Follow manufacturer's instructions for cleaning/ maintaining personal protective equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

User should:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. 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 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 foraging the treatment area.

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.

PROTECTION OF POLLINATORS



APPLICATION RESTRICTIONS EXIST FOR THIS PRODUCT BECAUSE OF RISK TO BEES AND OTHER INSECT POLLINATORS. FOLLOW APPLICATION RESTRICTIONS FOUND IN THE DIRECTIONS FOR USE TO PROTECT POLLINATORS.



Look for the bee hazard icon in the Directions for Use for each application site for specific use restrictions and instructions to protect bees and other insect pollinators.

This product can kill bees and other insect pollinators.

Bees and other insect pollinators will forage on plants when they flower, shed pollen, or produce nectar.

Bees and other insect pollinators can be exposed to this pesticide from:

- o Direct contact during foliar applications, or contact with residues on plant surfaces after foliar applications
- o Ingestion of residues in nectar and pollen when the pesticide is applied as a seed treatment, soil, tree injection, as well as foliar applications.

When Using This Product Take Steps To:

- o Minimize exposure of this product to bees and other insect pollinators when they are foraging on pollinator attractive plants around the application site.
- o Minimize drift of this product on to beehives or to off-site pollinator attractive habitat. Drift of this product onto beehives or off-site to pollinator attractive habitat can result in bee kills.

Information on protecting bees and other insect pollinators may be found at the Pesticide Environmental Stewardship website at: <http://pesticidestewardship.org/PollinatorProtection/Pages/default.aspx>. Pesticide incidents (for example, bee kills) should immediately be reported to the state/tribal lead agency. For contact information for your state, go to: www.aapco.org/officials.html. Pesticide incidents should also be reported to the National Pesticide Information Center at: www.npic.orst.edu or directly to EPA at: beekill@epa.gov

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 original container only. Store in a cool, dry place and avoid excess heat and freezing.

PESTICIDE DISPOSAL AND CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. **If empty:** Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all directions prior to application of the product.



Do not apply Optrol Insect Control while bees are foraging. Do not apply Optrol Insect Control to plants that are flowering. Only apply after all flower petals have fallen off

Restriction for all uses: Not for use on plants being grown for sale or other commercial use or for commercial seed, sod production or for research purposes.

SOIL APPLICATION FOR OUTDOOR ORNAMENTAL TREES AND SHRUBS

HOW IT WORKS	Optrol Insect Control is absorbed by the roots. It then moves up the tree or shrub providing protection all year long. Full absorption can take 30-60 days. Rain or water cannot wash off the internal protection. NOTE: Application to heavily infested trees may not prevent their eventual loss due to existing pest damage and tree stress.
KILLS	<p>Borers: Flatheaded and Roundheaded such as: Asian Longhorned beetle, Emerald ash borer, Eucalyptus Longhorned borer, Bronze birch borer, Alder borer, Oak borer</p> <p>Leaf Feeders: Aphids, Plant bugs, Palm bug, Leafhoppers (such as Elm Leaf and Viburnum Leaf), Spittlebugs, Sawfly (larvae), Leaf beetles, Adelgids, Lacebugs, Psyllids, Weevils, Whitefly, Leafminers, Japanese Beetles</p> <p>Soft Scales: (including Magnolia, leucanium, cottony maple, wax) Mealybugs</p> <p>Root Weevil Larvae (such as Black vine)</p> <p>Sawflies</p> <p>Armored Scale (suppression)</p> <p>Thrips</p> <p>Whiteflies</p>
MEASURE	<p>Determine the diameter of the tree trunk at breast height (4.5 feet above the ground) or height of shrub in feet.</p> <p>If using a standard tape measure to determine the circumference of the tree in inches, divide this number by 3 to determine diameter. If when dividing you end up with a fraction, round down to the lowest whole number. Example: if a tree has a circumference of 62 inches, use a diameter of 20 inches. $62 \div 3 = 20.66$ then round down to 20.</p> <p>TREE WITH 2 OR MORE TRUNKS – Measure the distance in inches around each tree trunk and add together. Example: A tree has 3 trunks, measuring 15, 18, and 21 inches for a total of 54 inches in circumference. Divide this number by 3 to determine diameter. $54 \div 3 = 18$ inches diameter.</p>
HOW MUCH TO USE	<p>Apply 6 ml (0.2 fl oz) per inch of trunk diameter. See Table 1.</p> <p>For trees 15 inches in diameter or larger and only to control the following pests: Asian Longhorned beetle, Emerald ash borer, Eucalyptus Longhorned borer, Bronze birch borer, Alder borer. Apply 12 ml (0.4 fl oz) per inch of trunk diameter. See Table 2.</p> <p>For Shrubs Apply 6 ml (0.2 fl. oz) per foot of shrub height.</p>
HOW TO APPLY	<ul style="list-style-type: none"> • Clear any barriers such as woodchips, mulch, and leaf matter from around the base of the tree or shrub. This includes landscape fabric. • Shake bottle well • Fill watering can/bucket with 1 gallon of water. Use 2 gallons of water for trees over 19 inches diameter. • Carefully measure required amount of product and combine with the water in the watering can/bucket. • Slowly and evenly pour the solution around the base of the tree/shrub. • Fill the container again with water and pour that around as well
RESTRICTIONS	<ul style="list-style-type: none"> • Do not apply more than 757 ml or 25.6 fl. oz. of product (0.4 lb imidacloprid active ingredient) per acre per year. • Keep people and pets off treated area until dry. • Do not apply to areas that are water logged or saturated, which will not allow penetration into the root zone of the plant.

Table 1: Dosing rates for ornamental trees and shrubs		
# of Inches of trunk diameter or shrub height in feet.	Amount of Optrol Insect Control	Volume of Water (gallons)
5	30 ml	1
6	36 ml	1
7	42 ml	1
8	48 ml	1
9	54 ml	1
10	60 ml	1
11	66 ml	1
12	72 ml	1
13	78 ml	1
14	84 ml	1
15	90 ml	1
16	96 ml	1
17	102 ml	1
18	108 ml	1
19	114 ml	1
20	120 ml	2
21	126 ml	2
22	132 ml	2
23	138 ml	2
24	144 ml	2
25	150 ml	2
26	156 ml	2
27	162 ml	2
28	168 ml	2
29	174 ml	2
30	180 ml	2
31	186 ml	2
32	192 ml	2
33	198 ml	2
34	204 ml	2
35	210 ml	2
36	216 ml	2

Table 2: Dosing rates only for ornamental trees 15 diameter inches or larger to control Asian Longhorned borer, Emerald ash borer, Eucalyptus Longhorned borer, Bronze birch borer, and Alder borer.		
# of Inches of trunk diameter	Amount of Optrol Insect Control	Volume of Water (gallons)
5	30 ml	1
6	36 ml	1
7	42 ml	1
8	48 ml	1
9	54 ml	1
10	60 ml	1
11	66 ml	1
12	72 ml	1
13	78 ml	1
14	84 ml	1
15	90 ml	1
16	96 ml	1
17	102 ml	1
18	108 ml	1
19	114 ml	1
20	120 ml	2
21	126 ml	2
22	132 ml	2
23	138 ml	2
24	144 ml	2
25	150 ml	2
26	156 ml	2
27	162 ml	2
28	168 ml	2
29	174 ml	2
30	180 ml	2
31	186 ml	2
32	192 ml	2
33	198 ml	2
34	204 ml	2
35	210 ml	2
36	216 ml	2

FOR FLOWERS AND GROUNDCOVERS (For Outdoor Residential Use Only)	
KILLS	Adelgids, Aphids, Froghopper, Japanese beetles, Lace bugs, Leaf beetles, Leafhoppers, Leafminers, Mealybugs, Planthoppers, Psyllids, Scales, Spittlebugs, Thrips (suppression), Whiteflies
WHEN TO USE	Apply before planting or after plants are established. If application is made to established plants, irrigate after application.
MEASURE	Determine the size of the area to be treated in square feet
HOW MUCH TO USE	Dilute according to Table 3. Can be reapplied every 2 weeks. 1 Bottle treats a 16,000 square feet of landscape or bedding area.
HOW TO APPLY	Add Optrol Insect Control, then water, into hose-end sprayer. Set Dial. Evenly spray treatment area until thoroughly wet.
RESTRICTIONS	<ul style="list-style-type: none"> Do not apply more than 757 ml or 25.6 fl. oz. of product (0.4 lb imidacloprid active ingredient) per acre per year. Keep people and pets off treated area until dry. Do not apply to areas that are water logged or saturated, which will not allow penetration into the root zone of the plant.

Table 3: Dosing Rates for Flowers and Groundcovers

Square feet of treatment area	Optrol Insect Control amount	Water added to sprayer	Hose spray setting
1000	0.5 fl oz (15 ml)	9 fl oz	1 tsp
2000	1 fl oz (29 ml)	18 fl oz	Per
3000	1.5 fl oz (44 ml)	27 fl oz	Gallon

APPLICATION TO TURFGRASS

OPTROL Insect Control will control soil inhabiting pests and larvae found in turfgrass.

OPTROL Insect Control can be applied on turfgrass in the following sites: home lawns, business & office complexes, shopping complexes, multi-family residential complexes, golf courses, airports, cemeteries, parks, playground, athletic fields.

OPTROL Insect Control has adequate residual activity that applications can be made preceding the egg laying activity of the target pests.

Best control is achieved when applications are made prior to egg hatch of the pests and when rainfall or irrigation after application will penetrate vertically in the soil column carrying the active ingredient into the zone where insects are normally located. In order to move the active ingredient through the thatch, irrigate if rainfall does not occur within 24 hours after application.

Apply 15 ml (0.5 fl oz) per 1000 sq ft. Make application prior to egg hatch of grubs to maximize control.

For chinch bugs (suppression) and mole crickets apply 18 ml (0.6 fl oz) per 1000 sq ft. For suppression of chinch bugs, make application before hatching of the first eggs.

Application for Use on Turfgrass	
KILLS	Japanese beetle (larvae, & adults), Northern & Southern masked chafers, Asiatic garden beetle, European chafer, Green June beetle, May or June beetle, Oriental beetle, Billbugs, Chinch bugs (suppression), European crane fly.
WHEN TO USE	Before pests appear in early spring when ground is not frozen or saturated.
MEASURE	Determine the size of the area to be treated in square feet
HOW MUCH TO USE	Dilute according to Table 4. Can be reapplied every 2 weeks. 1 Bottle treats a 16,000 square feet of lawn.
HOW TO USE	Dilute according to Table 3. Add Optrol Insect Control, then water, into hose-end sprayer. Set Dial. Evenly spray treatment area until thoroughly wet. Once treatment area is dry, it is safe to enter the area.
HOW TO APPLY	Add Optrol Insect Control, then water, into hose-end sprayer. Set Dial. Evenly spray treatment area until thoroughly wet.
RESTRICTIONS	<ul style="list-style-type: none"> Do not apply more than 757 ml or 25.6 fl. oz. of product (0.4 lb imidacloprid active ingredient) per acre per year. Keep people and pets off treated area until dry. Do not mow turf or lawn area, until after adequate irrigation or rainfall has occurred. Do not apply when infested turfgrass areas are waterlogged or soil beneath turf is saturated with water. These conditions prevent thorough and consistent distribution.

Table 4. Dosing Rates for Turf

Square feet of lawn	Optrol Insect Control amount	Water added to sprayer	Hose spray setting
1000	0.5 fl oz (14.5 ml)	2.5 fl oz	3 fl oz Per Gallon
2000	1 fl oz (29 ml)	5 fl oz	
3000	1.5 fl oz (44 ml)	7.5 fl oz	
4000	2 fl oz (58 ml)	10 fl oz	
5000	2.5 fl oz (73 ml)	12.5 fl oz	
6000	3 fl oz (88 ml)	15 fl oz	
7000	3.5 fl oz (102 ml)	17.5 fl oz	
8000	4 fl oz (116 ml)	20 fl oz	
9000	4.5 fl oz (131 ml)	22.5 fl oz	
10000	5 fl oz (147 ml)	25 fl oz	
11000	5.5 fl oz (162 ml)	27.5 fl oz	
12000	6 fl oz (177 ml)	30 fl oz	
13000	6.5 fl oz (192 ml)	32.5 fl oz	
14000	7 fl oz (207 ml)	35 fl oz	
15000	7.5 fl oz (221 ml)	37.5 fl oz	
16000	8 fl oz (236 ml)	40 fl oz	

CONDITIONS OF SALE AND WARRANTY

The DIRECTIONS FOR USE of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with 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 RAINBOW TREECARE SCIENTIFIC ADVANCEMENTS, its Supplemental Distributors, or the Seller. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, All such risks shall be assumed by the Buyer.

RAINBOW TREECARE SCIENTIFIC ADVANCEMENTS, its Supplemental Distributors and the Seller warrant that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the inherent risks referred to above. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, NEITHER RAINBOW TREECARE SCIENTIFIC ADVANCEMENTS NOR ITS SUPPLEMENTAL DISTRIBUTORS MAKE ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR OF MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S EXCLUSIVE REMEDY AND THE EXCLUSIVE LIABILITY OF RAINBOW TREECARE SCIENTIFIC ADVANCEMENTS, ITS SUPPLEMENTAL DISTRIBUTORS AND THE SELLER FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF OR THE REPAYMENT OF THE PURCHASE PRICE FOR THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, When Buyer suffers losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability, or other legal theories), Buyer must promptly notify Seller in writing of any claims to be eligible to receive either remedy stated above. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO CASE SHALL RAINBOW TREECARE SCIENTIFIC ADVANCEMENTS, ITS SUPPLEMENTAL DISTRIBUTORS, OR THE SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. RAINBOW TREECARE SCIENTIFIC ADVANCEMENTS, its Supplemental Distributors, and the Seller offer this product, and the Buyer accepts it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of RAINBOW TREECARE SCIENTIFIC ADVANCEMENTS.

No employee or agent of RAINBOW TREECARE SCIENTIFIC ADVANCEMENTS, its Supplemental Distributor, or the Seller is authorized to vary or exceed the terms of this Warranty in any other manner.

MONEY BACK GUARANTEE: If you are not satisfied with this product, we will gladly refund your original purchase price. When enrolled in our Tree Tracking Protection program, we will guarantee the product protects your tree if used preventively and annually. When you are registered, we will automatically notify you for annual reapplications. For more information, on the program, go to www.plantcarescience.com or call 1-877-814-3274.