



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

March 9, 2022

Jane Miller  
Agent for Aquatrols Corporation of America  
c/o Biologic Regulatory Consulting, Inc.  
10529 Heritage Bay Blvd.  
Naples, FL 34120

Subject: Notification per PRN 98-10 – Adding Non-Public Health Pests; Revise EPA Registration Number; Revise Manufacturer's Address & Other Label Edits  
Product Name: AVATAR® PLX  
EPA Registration Number: 94396-29  
Application Date: June 12, 2020  
Decision Number: 571063

Dear Jane Miller:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped "Notification" and will be placed in our records.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you have any questions, you may contact please contact David Gardner at (202) 566-2677 or by email at [Gardner.David@epa.gov](mailto:Gardner.David@epa.gov).

Sincerely,

A handwritten signature in black ink that reads "Marion J. Johnson, Jr." in a cursive style.

FOR Marion J. Johnson, Jr., Acting Product Manager 10  
Invertebrate & Vertebrate Branch #2  
Registration Division (7505P)

Enclosure: Stamped "Notification," dated March 9, 2022

**GROUP 1 & 4A INSECTICIDES**

# AVATAR® PLX

A dry flowable mixture of two systemic insecticides for use on sod farms and golf courses and in the production and maintenance of horticultural crops on farms or in the landscape.

**ACTIVE INGREDIENTS:**

Acephate: (O,S-Dimethyl acetylphosphoramidothioate ..... 50.0%

Imidacloprid: 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine... 5.0%

**OTHER INGREDIENTS** ..... 45.0%

Total ..... 100.0%

Contains 0.5 lb. acephate and 0.05 lb. imidacloprid per pound of product.

## NOTIFICATION

94396-29

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

03/09/2022

## KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
If on skin or clothing	<ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
If swallowed	<ul style="list-style-type: none"> <li>Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
If in eyes	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15-20 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>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency medical assistance, call the Rocky Mountain Poison and Drug Center at 1-866-673-6671.	
NOTE TO PHYSICIAN	
Acephate is a cholinesterase inhibitor. If signs of cholinesterase inhibition appear, atropine is antidotal. 2-PAM may also be used in conjunction with atropine but should not be used alone.	

**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC at 1-800-424-9300  
CHEMTEL (1-800-255-3924)**

[See [side] [back] [panel] [label booklet] for [complete] [additional] [First Aid.] [Precautionary Statements,] [Directions For Use,] and [Storage and Disposal.]

**Aquatrols Corporation of America**  
1273 Imperial Way  
Paulsboro, NJ 08066  
Net Contents: lbs.

EPA Reg. No. **70506-313 94396-29**  
EPA Est. No. **XXXXX-XX-X**

Batch/Lot No.

**United Phosphorus, Inc.**  
630 Freedom Business Center, Suite 402  
King of Prussia, PA 19406  
1-800-438-6071

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

**Caution**

Harmful if absorbed through skin. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing.

**Personal Protective Equipment (PPE):**

Applicators, mixers, loaders, and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material for all mixers and loaders and for applicators using hand-held application equipment.
- Shoes plus socks.

**In addition, all mixers and loaders and all applicators using low pressure hand wand application equipment must wear:**

A NIOSH-approved particulate respirator with any N, R, or P filter,, NIOSH approval number prefix TC-84A; or a NIOSH-approved powered air purifying respirator with an HE filter with NIOSH approval number prefix TC-21C.

See engineering controls for additional requirements.

Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables exist, 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 for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**USER SAFETY RECOMMENDATIONS**

Users should:

- Wash thoroughly with soap and water after handling and 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.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to birds and wildlife and highly toxic to aquatic invertebrates.

For terrestrial uses, 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 cleaning equipment or disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops, plants or weeds. Do not apply this product or allow it to drift to blooming crops, plants or weeds if bees are foraging the treatment area.

This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. 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:

- Direct contact during foliar applications, or contact with residues on plant surfaces after foliar applications
- 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:

- Minimize exposure of this product to bees and other insect pollinators when they are foraging on pollinator attractive plants around the application site.
- 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](http://www.aapco.org/officials.html) . Pesticide incidents should also be reported to the National Pesticide Information Center at: [www.npic.orst.edu](http://www.npic.orst.edu) or directly to EPA at: [beekill@epa.gov](mailto:beekill@epa.gov).

**OBSERVE THE FOLLOWING PRECAUTIONS WHEN MIXING AND APPLYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES; RESERVOIRS; RIVERS; PERMANENT STREAMS, MARSHES OR NATURAL PONDS; ESTUARIES AND COMMERCIAL FISH FARM PONDS.**

### **Spray Drift Management**

The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator.

**Mixing and Loading Requirements** - To avoid potential contamination of groundwater, the use of a properly designed and maintained containment pad for mixing and loading of any pesticide into application equipment is recommended. If containment pad is not used, maintain a minimum distance of 25 feet between mixing and loading area and potential surface to groundwater conduits such as field sumps, uncased well heads, sinkholes, or field drains.

**For Aerial Applications** - Aerial applications are forbidden

**Importance of Droplet Size** - An important factor influencing drift is droplet size. Small droplets (<150 - 200 microns) drift to a greater extent than large droplets. Within typical equipment specifications, applications should be made to deliver the largest droplet spectrum that provides sufficient control and coverage. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible and by avoiding excessive spray boom pressure. For ground applications, do not apply at heights greater than 4 feet above the crop canopy.

**Wind Speed Restrictions** - Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size, canopy and equipment specifications determine drift potential at any given wind speed. Do not apply when winds are greater than 10 mph and avoid gusty and windless conditions. Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.

**Restrictions During Temperature Inversions** - Do not make ground applications during temperature inversions. Drift potential is high during temperature inversions. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical mixing.

### **Airblast (Air Assist) Specific Instructions for Tree Crops and Vineyards**

Airblast (Air Assist) applications are forbidden

### **No-Spray Zone Requirements for Foliar Applications**

Do not apply by ground within 25 feet of lakes; reservoirs; rivers; permanent streams, marshes or natural ponds; estuaries and commercial fish farm ponds.

### **Run-Off Management**

Do not cultivate within 10 feet of the aquatic areas to allow growth of a vegetative filter strip. When used on erodible soils, Best Management Practices for minimizing runoff should be employed. Consult your local National Resources Conservation Service for recommendations in your use area.

### Endangered Species Notice

Under the Endangered Species Act, it is a Federal Offense to use any pesticide in a manner that results in the death of a member of an endangered species. Consult your local county bulletin, County Extension Agent, or Pesticide State Lead Agency for information concerning endangered species in your area.

### Resistance Management

AVATAR PLX<sup>®</sup> Insecticide is a mixture of Group 1 (acephate) and Group 4A (imidacloprid) insecticides. Insects can develop resistance to products with the same mode of action when used repeatedly. Because resistance development cannot be predicted, use of this product should conform to resistance management strategies established for the crop and use area. Consult your local or State agricultural authorities for resistance management strategies that are complementary to those in this label. Resistance management strategies may include rotating and/or tank mixing with products having different modes of action or limiting the total number of applications per season.

Contact your local extension specialist, certified crop advisor and/or product manufacturer for additional insect resistance management recommendations. Also, for more information on Insect Resistance Management (IRM), visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://irac-online.org>.

## DIRECTIONS FOR USE

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

See individual crops or use sites for specific pollinator application restrictions. If none exist under the specific crop or use site, for outdoor foliar applications, follow these application directions for crops that are contracted to have pollinator services, or food/feed crops and commercially grown ornamentals that are attractive to pollinators, or non-agricultural use sites.



### FOR CROPS UNDER CONTRACTED POLLINATION SERVICES

Do not apply this product while bees are foraging. Do not apply this product until flowering is complete and all petals have fallen unless the following condition has been met:

If an application must be made when managed bees are at the treatment site, the beekeeper providing the pollination services must be notified no less than 48-hours prior to the time of the planned application so that bees can be removed, covered or otherwise protected prior to spraying.



### FOR FOOD/FEED CROPS AND COMMERCIALY GROWN ORNAMENTALS NOT UNDER CONTRACT FOR POLLINATION SERVICES BUT ARE ATTRACTIVE TO POLLINATORS

Do not apply this product while bees are foraging. Do not apply this product until flowering is complete and all petals have fallen unless one of the following conditions is met:

- The application is made to the target site after sunset

- The application is made to the target site when temperatures are below 55°F
- The application is made in accordance with a government-initiated public health response
- The application is made in accordance with an active state-administered apiary registry program where beekeepers are notified no less than 48-hours prior to the time of planned application so that the bees can be removed, covered or otherwise protected prior to spraying.
- The application is made due to an imminent threat of significant crop loss, and a documented determination consistent with an IPM plan or predetermined economic threshold is met. Every effort should be made to notify beekeepers no less than 48-hours prior to the time of the planned application so that the bees can be removed, covered or otherwise protected prior to spraying



### **NON-AGRICULTURAL USE SITES**

Do not apply AVATAR PLX Insecticide while bees are foraging. Do not apply AVATAR PLX Insecticide to plants that are flowering. Only apply after all flower petals have fallen off.

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

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 (WPS), 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 treatment areas during the restricted entry interval (REI) of 24 hours.

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:

- Long-sleeved shirt and long pants;
- Chemical-resistant gloves made of any waterproof material;
- Shoes plus socks

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, or greenhouses.

Do not enter or allow others to enter treated areas until sprays have dried.

### RESTRICTIONS:

- Do not apply with low pressure handwand equipment except for control of fire ants as a mound treatment and when used on ornamental trees, shrubs, and floral plants grown for non-agricultural or non-commercial use.
- Not for indoor residential use.
- For use on turf, use limited to sod farms and golf courses, except when applying to mound or spot treatment for fire ant and harvester ant control.
- For greenhouse/shadehouse, use is limited to commercial greenhouses/shadehouses for use on ornamental, floral and foliage plants. Do not apply this product through any type of irrigation system.
- Do not apply more than 0.4 lb. imidacloprid active ingredient, per acre, per year, regardless of formulation or method of application, unless otherwise specified on this label.
- Do not apply this product, by any application method, to linden, basswood or other *Tilia* species in the State of Oregon

### SPRAY DRIFT RESTRICTIONS

Observe the following precautions to minimize drift:

A variety of factors including weather conditions (e.g. wind direction, wind speed, temperature, relative humidity), and method of application (e.g. ground, airblast) can influence pesticide drift. The applicator and grower must evaluate all factors and make appropriate adjustments when applying this product.

- All application equipment must be properly maintained and calibrated using water as carrier. Do not apply this product as an ultralow (ULV) spray or in any carrier other than water. Do not apply by aerial application or by air assisted/air blast application.
- Use the largest droplet size consistent with good pest control. Small droplets are more prone to spray drift and can be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.
- Do not apply at wind speeds greater than 10 mph at the application site.
- Make applications when wind velocity favors on-target product deposition (approximately 3 to 10 mph).
- Apply as close to target plants as practical to obtain a good spray pattern for adequate coverage.
- For ground applications, do not apply at heights greater than 4 feet above the crop canopy.

### CROP USE INFORMATION

Apply AVATAR PLX Insecticide as a directed broadcast foliar spray or to the root zone of the plants. Thorough coverage is necessary for optimum insecticidal efficacy. Use adequate spray volumes, properly calibrated application equipment and spray adjuvants, if necessary, to obtain coverage. The active ingredients in AVATAR PLX Insecticide (acephate and imidacloprid) are water soluble and readily absorbed by plant roots and foliage to give systemic control of feeding



insects. Insect pests are generally controlled more effectively through ingestion than by contact. To maintain control, repeat application of AVATAR PLX Insecticide as directed.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR INSECT CONTROL, CROP INJURY, AND/OR ILLEGAL RESIDUES.

### MIXING INSTRUCTIONS

To prepare the application mixture, fill the spray tank one-third to one-half full of clean water with agitation running and add the required amount of AVATAR PLX Insecticide to the spray tank. Add remaining amount of water needed for the desired application volume. Maintain sufficient agitation during both mixing and application. AVATAR PLX Insecticide may be applied in tank mixtures with other pesticides and/or fertilizer solutions. Please refer to the compatibility note below. When tank mixing mixtures of AVATAR PLX Insecticide and other products, prepare the tank mixture as recommended above and follow the suggested mixing order below. Read and follow the entire label of each product to be used in tank mixes with this product. When mixing with other products, observe the most restrictive precautions, use restrictions, and other limitations on the labels for all products involved.

#### Mixing order

Tank mixtures of AVATAR PLX Insecticide with other pesticides and/or fertilizers can be prepared after the AVATAR PLX Insecticide and water has been agitated and thoroughly mixed. Add wettable powders or wettable granules next, flowable formulations and then emulsifiable concentrates last. Do not add an additional component until the previous has been thoroughly mixed. If a fertilizer solution is added, a fertilizer-pesticide compatibility agent may be required. Maintain constant agitation during both mixing and application to ensure uniformity of the spray mixture. Dissolution may be slowed by cold water, low levels of agitation, or water containing high concentrations of boron or sulfur.

#### Compatibility

Test the compatibility of the intended tank mixture before adding AVATAR PLX Insecticide to the spray mixture as follows: Add proportional amounts of each ingredient in the appropriate order to a pint or quart jar. Cap the jar and shake thoroughly for approximately 5 minutes and let stand for 5 minutes. Do not use if there is the formation of a precipitate that does not readily re-disperse.

*[Moved from page 29-]*

**NOTICE:** Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor.

**Read and follow the entire label of each product to be used in the tank mix with this product.**

#### ROTATIONAL CROPS\*

Replant treated areas with any crop specified on this label or any crop for which tolerances exist for residues of acephate AND imidacloprid on that crop as soon as practical following the last application. For crops without established tolerances for acephate AND imidacloprid, a 12-month plant-back interval must be observed.

<b>Immediate Plant-Back:</b>	All crops on this label plus the following crops not listed on this label, barley, canola, corn (field, pop, and sweet), rapeseed, sorghum, sugarbeet, and wheat
<b>30-day Plant-Back:</b>	Cereals (including buckwheat, millet, oats, rice, rye, and triticale), soybeans, and safflower
<b>10-Month Plant-Back</b>	Onion and bulb vegetables

**12-Month Plant-Back**      All other crops

**Restriction:** Cover crops for soil building or erosion control may be planted any time, but do not graze or harvest for food or feed.

**SPECIALTY USES**

**GENERAL INFORMATION AND MIXING DIRECTIONS**



- Do not apply while bees are foraging in the treatment area. Do not apply to plants that are flowering. Only apply after all flower petals have fallen off

**CROP TOLERANCE**

Avatar PLX Insecticide is generally not phytotoxic to most greenhouse or field grown plants or turf. However, it is impossible to test all plant varieties and cultural conditions. Before treating large plantings, apply to a representative group of plants and observe for two weeks to assure that a particular variety, grown under current conditions is not sensitive to Avatar PLX. Use on turfgrass is limited to sod farms and golf courses, except when applying by mound or sport treatment for fire and harvester ant control.

The following have been found sensitive to Avatar PLX Insecticide:

**Trees:** Balm of Gilead, Cottonwood, Lombardy Poplar or Viburnum suspensum and Crabapple varieties, Ichonoski, Malusfioribunda, Pink Perfection, Red Wine and Snow Cloud.

**Plants:** Bletchum gibbum, Cissus Antarctica, Ficus triangularis, Fittonia verschaffeltii, Maranta leuconeura kerchoveana, Pachystachya lutea, Plectranthus australis, Polypodium aureus, Polystichum, Pteris ensiformis, Tolmiea menziesii.

**Chrysanthemum Varieties:** Albatross, Bonnie Jean, Dixie, Garland, Gem, Iceberg, Pride, Showoff, Statesman, Tally Ho, Westward Ho and Wild Honey. Applications to Chrysanthemums and Roses with open flowers may results in flower damage.

SMALL VOLUME SPRAY EQUIPMENT		
PREPARATION OF AVATAR PLX SPRAY MIX USING A 16 OUNCE MEASURING CUP		
LABEL DIRECTION PER ACRE IN 100 GALLONS OF WATER	EQUIVALENT PER ACRE IN 25 GALLONS OF WATER	EQUIVALENT PER ACRE IN 1 GALLON OF WATER (TEASPOONS/GALLON)
0.5 lb.	2 oz.	2/3 tsp.
1 lb.	4 oz.	1 1/3 tsp.
1.5 lbs.	6 oz.	2 tsp.
2 lbs.	8 oz.	2 2/3 tsp.

### NON-BEARING CITRUS

**Restrictions:**

- Do not graze treated areas.
- DO NOT HARVEST citrus for one year (365 days) after treatment.
- For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 1 lb. product/A and a minimum of 7 days for rates greater than 1 lb. product/A.
- Do not exceed a total of 0.4 lb. imidacloprid a.i.(8 lbs. Avatar PLX) per acre per year from all applications of all products containing this active ingredient.



- Do not apply while bees are foraging in the treatment area. Do not apply to plants that are flowering. Only apply after all flower petals have fallen off

PLANTS	PESTS CONTROLLED	AMOUNT AVATAR PLX PER ACRE	TIME OF APPLICATION	FURTHER USE INSTRUCTIONS
Non-bearing Citrus (including citrus nursery seedlings)	Aphid, Grasshopper, Katydid, Mealybugs, Orangedog, Plant Bugs (Lygus), Thrips, Whiteflies	1 lb. (16 oz.)	Apply at 3 day Intervals for control of existing populations.	Apply Avatar PLX in 100 to 200 gallons of water per acre. Spray individual juvenile or non-bearing trees for coverage with total application not to exceed specified rate in lbs. per acre. Length of residual activity will depend upon spray coverage and the amount of moisture following application.
	Citrus Blackfly *	1 - 1.5 lbs. (16 - 24 oz.)	Use the higher specified label rate when a heavy infestation of Citrus Blackfly is present. Begin applications when eggs or adults first appear. Apply on a 7 to 10 day interval to maintain control.	
	Ants (excluding Carpenter, Fire, Harvester, and Pharaoh)	Foliar Spray 1.5 lbs. (24 oz.)	Apply at 7 day intervals for control of existing populations.	Apply Avatar PLX in 100 to 200 gallons of water per acre. Spray individual juvenile or non-bearing trees for coverage with total application not to exceed specified rate in lbs. per acre. Length of residual activity will depend upon spray coverage and the amount of moisture following application.
	Fire Ant, Harvester Ant *	<b>Drench Method:</b> Mix 1.5 oz. in 5 gallons of water. Apply 1 gallon of mix to each mound area by sprinkling the mound until it is wet and treat a four (4) foot diameter circle around the mound.	For best results, apply the material in the early morning or late afternoon when the ants are most active.	Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest.

\* Not registered in California for control of Citrus Blackfly and Harvester Ants.

**NURSERY STOCK**  
**Non-Bearing Deciduous Fruit Trees, Nut Trees and Vines**  
**in Nursery Fields or Non-Bearing Orchards**

**Restrictions:**

- Do not allow livestock to graze treated areas.
- For application only to non-bearing trees and vines in nursery fields or in non-bearing orchards.
- Do not apply to interplants or single trees in a bearing orchard.
- Do not harvest any fruit from sprayed trees for one year (365 days) after application.
- For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 1 lb. product/A and a minimum of 7 days for rates greater than 1 lb. product/A.
- Do not exceed a total of 0.4 lb. imidacloprid a.i.(8 lbs. Avatar PLX) per acre per year from all applications of all products containing this active ingredient.



- Do not apply while bees are foraging in the treatment area. Do not apply to plants that are flowering. Only apply after all flower petals have fallen off.

PLANTS	PESTS CONTROLLED	AMOUNT AVATAR PLX PER ACRE	TIME OF APPLICATION	FURTHER USE INSTRUCTIONS
Nursery Stock (Non-bearing Deciduous Fruit Trees, Nut Trees, Vines) Almond Apricot Apple Cherry Grape Kiwi Pear Pistachio Plum Prune Walnut	Aphid, Leafhoppers, Leafminers, San Jose Scale (Crawlers), Mealybugs, Japanese Beetle, Stink Bugs, Plant Bugs (Lygus), Whiteflies, Thrips	1 - 2 lbs. (16 - 32 oz.)	Apply at 3- 7 day spray intervals for control of existing populations.	Apply Avatar PLX in 50 to 200 gallons of water per acre by ground.
	Ants (excluding Carpenter, Fire, Harvester, and Pharaoh)	Foliar Spray 1.5 lbs. (24 oz.)	Apply at 7 day spray intervals for control of existing populations.	Apply Avatar PLX in 100 to 200 gallons of water per acre. Spray individual trees for coverage with total application not to exceed specified rate in lbs. per acre. Length of residual activity will depend upon spray coverage and the amount of moisture following application.
	Fire Ant, Harvester Ant *	<b>Drench Method:</b> Mix 1.5 oz. in 5 gallons of water. Apply 1 gallon of mix to each mound area by sprinkling the mound until it is wet and treat a four (4) foot diameter circle around the mound.	For best results, apply the material in the early morning or late afternoon when the ants are most active.	Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest.  Restriction: Do not treat mound more than once per season.

\* Not registered in California for control of Harvester Ants.

### CONTAINER GROWN NURSERY STOCK

**Restrictions:**

- For repeat applications, use a minimum spray interval of 3 days for application rates up to and including 1 lb. product/A and a minimum of 7 days for rates greater than 1 lb. product/A.
- Do not apply this product, by any application method, to linden, basswood or other *Tilia* species in the State of Oregon.



- Do not apply while bees are foraging in the treatment area. Do not apply to plants that are flowering. Only apply after all flower petals have fallen off.

PLANTS	PESTS CONTROLLED	AMOUNT AVATAR PLX PER ACRE	TIME OF APPLICATION	FURTHER USE INSTRUCTIONS
Container Grown Nursery Stock (Arborvitae, Azalea, Camellia, Rhododendron, Roses, Viburnum, Yew)	Black Vine Weevil, Strawberry Root Weevil	1.5 lbs. (24 oz.)	Application should be made by mid-September for greenhouse stock and by mid-October for outdoor stock.  Consult your local County Extension Agent for information on the identification and control of root weevils on ornamentals.	Apply the specified amount of Avatar PLX per 100 gallons of solution so as to thoroughly drench the root system.
	Ants (excluding Fire, Harvester, Carpenter, and Pharaoh ants)	1.5 lbs. (24 oz.)	Apply at 7 day spray intervals to control the pest.	

**ORNAMENTAL TREES AND SHRUBS**

**Restrictions:**

- Do not exceed 2 lbs. (32 oz.) of Avatar PLX per acre per application.
- Foliar applications to all trees except Flowering Crabapple and Douglas Fir must not be made more than once every 14 days. See "Further Use Instructions" for spray interval information regarding Flowering Crabapple and Douglas Fir.
- Low pressure handwand applications allowed only for control of fire ants as a mound treatment and when used on ornamental trees, shrubs, and floral plants grown for non-agricultural or non-commercial use.
- Do not exceed a total of 0.4 lb. imidacloprid a.i. (8 lbs. Avatar PLX) per acre per year from all applications of all products containing this active ingredient.
- Do not apply this product, by any application method, to linden, basswood or other *Tilia* species in the State of Oregon.



- Do not apply while bees are foraging in the treatment area. Do not apply to plants that are flowering. Only apply after all flower petals have fallen off.

PLANTS	PESTS CONTROLLED	AMOUNT AVATAR PLX PER ACRE	TIME OF APPLICATION	FURTHER USE INSTRUCTIONS
Trees and Shrubs (except Flowering Crabapple and Douglas Fir - see below)	Aphids, Bagworm, Birch Leafminer, Lace Bug, Leafroller, Tent Caterpillar *	0.5 - 1 lb. (8 - 16 oz.)	Make application as the insects begin to appear.	Apply the specified amount of Avatar PLX in 100 gallons of water with a hydraulic sprayer.  The addition of a suitable sticker improves control of Gypsy Moth larvae.
	Douglas Fir Tussock Moth Larvae, Gypsy Moth Larvae *, Webworms	1 lb. (16 oz.)	Make application as the insects begin to appear.	<b>Mist blower application:</b> Adjust rates to 2 lbs. per 100 gallons of water for Gypsy Moth control and 1.5 lbs. per 100 gallons of water for Tent Caterpillar control.
	Scales (Crawlers)	1 lb. (16 oz.)	Make application as the crawlers begin to appear. Repeat applications, at a 2-week or more interval, may be necessary where there is continuous crawler production.	United Phosphorus, Inc. does not advise application be made to Huckleberry, Balm of Gilead, Cottonwood, Lombardy Poplar, and Viburnum suspensum as it may result in phytotoxicity in these plants.  <b>Nursery crops:</b> Before treating large plantings, spray only a few plants and observe two weeks for phytotoxicity.
	Ponderosa Pine Needle Miner	1 lb. (16 oz.)	Time of application is important. Consult your Farm Advisor or County Extension Agent.	Apply the specified amount of Avatar PLX in 100 gallons of water with a hydraulic sprayer as a full coverage spray.

**ORNAMENTAL TREES AND SHRUBS - continued**

<b>PLANTS</b>	<b>PESTS CONTROLLED</b>	<b>AMOUNT AVATAR PLX PER ACRE</b>	<b>TIME OF APPLICATION</b>	<b>FURTHER USE INSTRUCTIONS</b>
Trees and Shrubs (except Flowering Crabapple and Douglas Fir - see below)	Grasshopper	1 lb. (16 oz.)	Make application as the grasshoppers begin to appear.	Apply the specified amount of Avatar PLX in 100 gallons of water with a hydraulic sprayer as a full coverage spray.
	California Oakworm, Cankerworm (Spring and Fall),	0.5 - 1 lb. (8 - 16 oz.)	Make application as the insects begin to appear. Use the higher rate when larger larvae are present.	Apply the specified amount of Avatar PLX in 100 gallons of water with a hydraulic sprayer.
	Nantucket Pine Tip Moth Larvae	1.5 lbs. (24 oz.)	Time of application is important. Consult your Farm Advisor or County Extension Agent. Repeat applications will be required for subsequent generations.	
	Root Weevil Adults	1.5 lbs. (24 oz.)	Apply when first feeding damage occurs. Repeat applications, at 4-week intervals until the first heavy frost, may be necessary for complete foliage protection.	Apply the specified amount of Avatar PLX in 100 gallons of water with a hydraulic sprayer as a full coverage spray.
	Box Elder Bug, Budworm, Leafhopper, Sawflies	1.5 lbs. (24 oz.)	Make application as insects begin to appear.	
	Japanese Beetle	2 lbs. (32 oz.)	Make application as the beetle begins to appear. Repeat applications as necessary at 2-week intervals.	Apply the specified amount of Avatar PLX in 100 gallons of water with a hydraulic sprayer as a full coverage spray.
	Elm Leaf Beetle (larvae)	2 lbs. (32 oz.)	Make application as the larvae begin to appear. Avatar PLX will not prevent Elm Leaf Beetle eggs from hatching.	Apply the specified amount of Avatar PLX in 100 gallons of water with a hydraulic sprayer as a full coverage spray.

**ORNAMENTAL TREES AND SHRUBS - continued**

<b>PLANTS</b>	<b>PESTS CONTROLLED</b>	<b>AMOUNT AVATAR PLX PER ACRE</b>	<b>TIME OF APPLICATION</b>	<b>FURTHER USE INSTRUCTIONS</b>
Douglas Fir (Christmas Trees)	Douglas Fir Needle Midge	1 lb. (16 oz.)	Application should be made no more than 2 weeks prior to bud burst. For additional pest management information, consult your County Extension Service.	Apply the specified amount of Avatar PLX in 100 gallons of spray per acre by ground.  Restriction: Do not make more than 1 application per season.
Flowering Crabapples	Aphid, Leafroller, Tent Caterpillar	0.5 lb. (8 oz.)	Make application as the insects begin to appear.	Apply the specified amount of Avatar PLX in 100 gallons of water with a hydraulic sprayer.  Restriction: Do not apply more often than 3 times in a growing season at 4-week intervals.  Phytotoxicity has occurred on the following Crabapple varieties: Hopa, Ichonoski, Malusfloribunda, Pink Perfection, Red Wine and Snow Cloud.
Crepe Myrtle	Aphid	4 to 6 level tbsp. (1.2 - 1.8 oz.) per 1 tbsp. of water	Make application as aphids begin to appear.	Make a paint-on slurry by mixing the specified amount of Avatar PLX with 1 tbsp. of water. Remove the loose bark from the trunk areas to be treated.  Paint a band completely around each trunk to a width twice its diameter. Application should be made to trunks within a zone 6 to 12 inches above the ground and below the point where branching begins. For multi-trunk plants be certain to treat all trunks. For either single or multi-trunk plants, make application as low as possible within the treatment zone.



## GOLF COURSE TURFGRASS

### Restrictions:

- Do not allow livestock to graze treated areas.
- Do not feed treated grass to livestock.
- Do not apply to turfgrass by air.
- Do not apply more than 8 lbs. Avatar PLX per year on golf course turfgrass.
- Do not apply more than 4 lbs. acephate a.i. and 0.4 lb. imidacloprid a.i. per acre per year on golf course turfgrass from all applications of all products containing these active ingredients.
- For repeat applications use a minimum spray interval of 3 days for application rates up to and including 1 lb. product /A and a minimum of 7 days for rates greater than 1 lb. product/A.
- 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.
- Do not allow runoff or puddling of irrigation water following application.
- Do not mow turf or lawn area until sufficient irrigation or rainfall has occurred so that uniformity of application will not be affected.
- Keep people and pets off treated area until dry



- Do not allow this product to contact plants in bloom if bees are foraging in the treatment area.

PESTS CONTROLLED	AMOUNT AVATAR PLX PER ACRE	TIME OF APPLICATION	FURTHER USE INSTRUCTIONS
Cutworm, Fall Armyworm, Yellow Striped Armyworm, Southern Armyworm	2.18 - 4.9 lbs.  (0.8 - 1.8 oz per 1000 sq. ft.)	Make application as the insects appear. Repeat application at 2-week intervals may be necessary.	Apply the specified amount of Avatar PLX per 1,000 sq. ft. Use a minimum of 5 gallons water per 1,000 sq. ft. to obtain good coverage.
Chinch Bug	4.9 - 8 lbs.  (1.8 - 2.94 oz. per 1000 sq. ft.)	Apply as needed for adult population knockdown (10 to 14 days).	Apply the specified amount of Avatar PLX per 1,000 sq. ft. Use 1 to 15 gallons water per 1,000 sq. ft. to obtain good coverage.
Sod Webworm	2.18 -4.35 lb.  (0.8 - 1.6 oz. per 1000 sq. ft)	Make application as sod webworms begin to appear. Use the highest rate when quick knockdown is needed or with heavy infestations.  Repeat application may be necessary.  Restriction: Do not repeat at more than 1-week intervals.	
Leafhopper	4.35 lbs.  (1.6 oz per 1000 sq. ft.)	Make application as the leafhoppers begin to appear. A repeat application at 1-week intervals may be necessary.	

**GOLF COURSE TURFGRASS - continued**

<b>PESTS CONTROLLED</b>	<b>AMOUNT AVATAR PLX PER ACRE</b>	<b>TIME OF APPLICATION</b>	<b>FURTHER USE INSTRUCTIONS</b>
<p>Mole Cricket (except California), Spittlebug (except California)</p>	<p>4-8 lbs.  (1.6 - 2.8 oz. per 1000 sq. ft.)</p>	<p>Make application as mole crickets begin to appear.</p> <p>For knockdown of existing populations, more than one application may be required throughout the growing season.</p> <p>For heavy infestations, use the higher labeled dosage rate.</p>	<p>Apply the specified amount of Avatar PLX per 1,000 sq. ft. Use 1 to 15 gallons of water per 1,000 sq. ft. to obtain good coverage.</p> <p>Apply during late afternoon or early evening hours and after an irrigation. Do not irrigate after application.</p> <p>The use of a lemon fragrance substance in the spray mix may enhance control by acting as a flushing agent and thus provide increased mole cricket contact with the Avatar PLX. The following lemon scented products have been shown to be effective flushing agents: Lemon Joy, Lemon Palmolive, and Mighty Myrt Products Manufacture Base Pure Lemon Fragrance. The use rate for these lemon- scented products is 2 tsp. Per gallon of water for small total mix volumes or 6 fl. oz. per 50 gallons of water for large total mix volumes.</p>
<p>Greenbug (<i>Schizaphis graminun</i>), Grasshopper</p>	<p>2.18 lbs.  (0.8 oz. per 1000 sq. ft.)</p>	<p>Apply when insects or their damage first appears. Repeat as necessary.</p> <p>Restriction: Application is not to be repeated at more than 1- week intervals.</p>	<p>Apply the specified amount of Avatar PLX using 4 gallons of water per 1,000 sq. ft. to obtain good coverage.</p> <p>Restriction: Do not mow turfgrass for at least 24 hours after application.</p>

**GOLF COURSE TURFGRASS - continued**

<b>PESTS CONTROLLED</b>	<b>AMOUNT AVATAR PLX PER ACRE</b>	<b>TIME OF APPLICATION</b>	<b>FURTHER USE INSTRUCTIONS</b>
<p>Black Turfgrass Ataenius (except California)</p> <p><u>Larvae of:</u> <u>Annual bluegrass weevil, Asiatic garden beetle, Billbug, Black turfgrass ataenius, Cutworms (suppression), European chafer, European crane fly, Green June Beetle, Japanese beetle, Northern Masked chafer, Oriental beetle, Phyllophaga spp., Southern masked chafer</u></p>	<p>6 - 8 lbs.  (2.2 - 2.94 oz. per 1000 sq. ft.)</p>	<p><u>Black Turfgrass Ataenius</u> - Apply when insects or their damage first appear.</p> <p><u>For grubs, billbugs, annual bluegrass weevil, and European Crane Fly,</u> optimum control will be achieved when application is timed prior to egg hatch</p>	<p>Apply the specified amount of Avatar PLX per 1,000 sq. ft. Use a minimum of 5 gallons of water per 1,000 sq. ft. Irrigate lightly after application (not more than ½ inch). Use the higher labeled rate for severe infestations.</p>
<p>Annual Bluegrass Weevil (larvae)</p>	<p>4 - 8 lbs.  (1.47-2.94 oz per 1000 sq. ft.)</p>	<p>Optimum control will be achieved when application is timed prior to egg hatch. Use higher rates under heavy insect pressure.</p>	<p>Apply in sufficient water to provide adequate distribution in the treated area. The use of accurately calibrated equipment normally used for the application of turfgrass insecticides is required. Use equipment which will produce a uniform ,coarse droplet spray, using a low pressure setting to eliminate off target drift. Check calibration periodically to ensure that equipment is working properly.</p>

## SOD FARM TURFGRASS

### Restrictions:

- Do not allow livestock to graze treated areas.
- Do not feed treated grass to livestock.
- Do not apply to turfgrass by air.
- Do not apply more than 6 lbs./A (3 lbs. acephate) of Avatar PLX to sod farm turfgrass in any single application.
- User must allow at least 3 days between last application and harvesting of sod.
- Do not exceed a total of 0.4 lb. imidacloprid a.i. (8 lbs. Avatar PLX) per acre per year from all applications of all products containing this active ingredient.
- 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.
- Do not allow runoff or puddling of irrigation water following application.



- Do not allow this product to contact plants in bloom if bees are foraging in the treatment area.

PESTS CONTROLLED	AMOUNT AVATAR PLX PER ACRE	TIME OF APPLICATION	FURTHER USE INSTRUCTIONS
Cutworm, Fall Armyworm, Grasshopper, Greenbug, Leafhopper, Southern Armyworm, Yellow Striped Armyworm	2.18-4.9lbs.  (0.8-1.8 oz. per 1000 sq. ft.)	Make application as the insects appear. A repeat application at 2-week intervals may be necessary.	Apply the specified amount of Avatar PLX per 1,000 sq. ft. Use a minimum of 5 gallons water per 1,000 sq. ft. to obtain good coverage.
Chinch Bugs, Mole Cricket (except California), Spittlebug (except California)	4.9 -6 lbs.  (1.8 - 2.2 oz. per 1000 sq. ft.)	Apply as needed for adult population knockdown, not to exceed maximum use rate (application interval of 10 to 14 days).	Apply the specified amount of Avatar PLX per 1,000 sq. ft. Use 1 to 15 gallons of water per 1,000 sq. ft. to obtain good coverage.
Sod Webworm	2.18 - 4.35 lbs.  (0.8 - 1.6 oz. per 1000 sq. ft.)	Make application as sod webworms begin to appear. Use the higher rate when quick knockdown is needed or with heavy infestations.  Repeat application may be necessary.  Do not repeat application more than once every 7 days.	

**SOD FARM TURFGRASS -CONTINUED**

<b>PESTS CONTROLLED</b>	<b>AMOUNT AVATAR PLX PER ACRE</b>	<b>TIME OF APPLICATION</b>	<b>FURTHER USE INSTRUCTIONS</b>
Annual Bluegrass Weevil	4 - 6 lbs.  (1.47 - 2.2 oz per 1000 sq. ft.)	Optimum control will be achieved when application is timed prior to egg hatch. Use higher rates under heavy insect pressure.	Apply in sufficient water to provide adequate distribution in the treated area. The use of accurately calibrated equipment normally used for the application of turfgrass insecticides is required. Use equipment which will produce a uniform , coarse droplet spray, using a low pressure setting to eliminate off target drift. Check calibration periodically to ensure that equipment is working properly.

## MOUND TREATMENT OF FIRE ANTS AND HARVESTER ANTS IN TURFGRASS

**Restrictions:**

- Do not allow livestock to graze treated areas.
- Do not feed treated grass to livestock.
- Do not treat mound more than once per season.
- Do not exceed a total of 0.4 lb. imidacloprid a.i.(8 lbs. Avatar PLX) per acre per year from all applications of all products containing this active ingredient.



- Do not allow this product to contact plants in bloom if bees are foraging in the treatment area.

PLANTS	PESTS CONTROLLED	AMOUNT AVATAR PLX PER 1000 SQ. FT.	TIME OF APPLICATION	FURTHER USE INSTRUCTIONS
Turfgrass Residential, Recreational, and Commercial Turf	Imported Fire Ants and Harvester Ants	<b>Drench Method:</b> Mix 1.5 oz. in 5 gallons of water. Apply 1 gallon of mix to each mound area by sprinkling the mound until it is wet and treat a four (4) foot diameter circle around the mound.	For best results, apply the material in the early morning or late afternoon when the ants are most active.	Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest.  Grass in treated areas may be injured.

## OUTDOOR AND PERIMETER SPRAY

### Restrictions:

- Not for use on residential turfgrass.
- The use of low pressure handwand equipment for perimeter or wasp treatments is prohibited.
- Do not exceed a total of 0.4 lb. imidacloprid a.i.(8 lbs. Avatar PLX) per acre per year from all applications of all products containing this active ingredient.
- Do not apply this product, by any application method, to linden, basswood or other *Tilia* species in the State of Oregon
- Keep people and pets off treated area until dry



- Do not allow product to contact plants in bloom if bees are foraging in the treatment area.

PESTS CONTROLLED	AMOUNT AVATAR PLX PER GALLON	TIME OF APPLICATION	FURTHER USE INSTRUCTIONS
Wasps	2.4 oz.	Treat early or late in the day as wasps are generally less active during these times.	Apply the specified amount of Avatar PLX per each gallon of water used.  Apply as a spot treatment to the nest, nest entrance, and surrounding areas where the wasps alight.
Ants (excluding Fire, Harvester, Carpenter, and Pharaoh ants), Cockroaches, Crickets, Earwigs, Pillbugs	2.4 oz.	Make application as insects appear.	Apply the specified amount of Avatar PLX per each gallon of water used.  Apply to a band of soil 6 to 10 ft. adjacent to the structure and to a height of 2 to 3 ft. on the foundation where pests may be active or may find entrance.  Also apply as a residual spray or with a paint brush to surfaces of buildings, window frames, shutters, entryways, screens, eaves, patios, garages, carports, around garage areas and other areas where these pests congregate.

## ORNAMENTAL PLANT GROWN FOR CUT FLOWER PRODUCTION

**Restrictions:**

- Do not apply more than 1 lb. product per 100 gallons of water.
- For repeat applications use a minimum spray interval of 14 days.
- Do not exceed a total of 0.4 lb. imidacloprid a.i. (8 lbs. Avatar PLX) per acre per year from all applications of all products containing this active ingredient.



- Do not apply while bees are foraging in the treatment area. Do not apply to plants that are flowering. Only apply after all flower petals have fallen off.

CROP	PESTS CONTROLLED	AMOUNT AVATAR PLX PER 100 GALLONS	TIME OF APPLICATION	FURTHER USE INSTRUCTIONS
Chrysanthemums, Daisies, Gladioli, Roses	Aphids, Lygus, Thrips	1 lb. (16 oz.)	Treat as insects begin to appear. Repeat applications may be necessary.	<p>Apply the specified amount of Avatar PLX in 100 gallons of water with a hydraulic sprayer as a full coverage spray.</p> <p>Phytotoxicity has occurred on the following Chrysanthemum varieties: Albatross, Bonnie Jean, Dixie, Garland, Gem, Iceberg, Pride, Showoff, Statesman, Tally Ho, Westward Ho, and Wild Honey.</p> <p>Do not apply more often than once every 28 days to Chrysanthemums.</p> <p>Before treating large Chrysanthemum plantings, spray only a few plants and observe two weeks for varietal phytotoxicity. Applications to Chrysanthemums in flower may result in flower damage.</p> <p>Multiple applications may cause slight tip burn or marginal leaf necrosis on some varieties. Test on a few plants to determine varietal susceptibility.</p>



## GREENHOUSE/SHADEHOUSE (Commercial Only)

### Restrictions:

- Not for residential greenhouse/shadehouse use.
- Do not apply more than 1.5 lbs. (24 oz.) of product per 100 gallons of water per acre.
- Do not apply with low pressure handwand equipment.
- For repeat applications use a minimum spray interval of 14 days.
- Do not apply under conditions involving possible drift to food, forage, and other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.
- Do not exceed a total of 0.4 lb. imidacloprid a.i.(8 lbs. Avatar PLX) per acre per year from all applications of all products containing this active ingredient.

CROP	PESTS CONTROLLED	AMOUNT AVATAR PLX PER 100 GALLONS	TIME OF APPLICATION	FURTHER USE INSTRUCTIONS
Carnations, Chrysanthemums	Aphids, Thrips	1 lb. (16 oz.)	<p>Apply as aphids begin to appear.</p> <p>Make application as thrips begin to appear or at the tight flower bud stage.</p> <p>Repeat applications may be necessary, not to exceed maximum use rate.</p>	<p>Apply the specified amount of Avatar PLX in 100 gallons of water with a hydraulic sprayer as a full coverage spray.</p> <p>Phytotoxicity has occurred on the following Chrysanthemum varieties: Albatross, Bonnie Jean, Dixie, Garland, Gem, Iceberg, Pride, Showoff, Statesman, Tally Ho, Westward Ho, and Wild Honey.</p> <p>Do not apply more often than once every 28 days to Carnations and Chrysanthemums.</p> <p>Before treating large Chrysanthemum plantings, spray only a few plants and observe two weeks for varietal phytotoxicity. Applications to Chrysanthemums in flower may result in flower damage.</p>

**GREENHOUSE/SHADEHOUSE (Commercial Only) - continued**

CROP	PESTS CONTROLLED	AMOUNT AVATAR PLX PER 100 GALLONS	TIME OF APPLICATION	FURTHER USE INSTRUCTIONS
Anthuriums, Cacti, Calla Lily, Dahlias, Daisies, Easter Lily, Foliage Plants, Gladioli, Gypsophila, Orchids, Pachysandra, Pansy, Peony, Poinsettia, Sedum, Statice, Strawflower, Yarrow, Zinnia,	Aphids	1 lb. (16 oz.)	Apply as aphids begin to appear.	Apply the specified amount of Avatar PLX in 100 gallons of water with a hydraulic sprayer as a full coverage spray. The addition of a wetting agent may be required on difficult to wet foliage.  Caution: Phytotoxicity has occurred on the following foliage plants: <i>Blechnum gibbum</i> , <i>Cissus antartica</i> , <i>Ficus triangularis</i> , <i>Fittonia verschaffeltii</i> , <i>Maranta leuconeura kerchoveana</i> , <i>Pachystachya lutea</i> , <i>Plectranthus australis</i> , <i>Polypodium aureus</i> , <i>Polystichum</i> , <i>Pteris ensiformis</i> , <i>Tolmiea menziesii</i> . Before treating large plantings, spray only a few plants and observe 2 weeks for varietal phytotoxicity. Application of Avatar PLX on Poinsettias after bract formation may result in phytotoxicity on certain varieties.
	Mealybug, Thrips, Whitefly	1 lb. (16 oz.)	Apply as the insects begin to appear. A repeat application at a 2-week interval may be necessary for control of mealybugs and whiteflies.	
	Scales (Crawlers)	1 lb. (16 oz.)	Apply as crawlers begin to appear. Repeat applications, at 2-week or more intervals, may be necessary where there is continuous crawler production.	
	Sweetpotato Whitefly (except California)	0.5 lb. (8 oz.)  +  10 2/3 fl. oz. (0.2 lb. a.i.) TAME® 2.4 EC Spray	Apply when insects first appear. If a population is well established, make one application of the tank mix and follow 5 to 7 days later with TAME alone at 16 fl. oz./100 gallons. See TAME label for instructions.	For Sweetpotato whitefly control, apply the specified amount of Avatar PLX plus TAME 2.4 EC Spray as a tank mix at a volume necessary to obtain good coverage. Follow the TAME label for specific instructions on the alternation of TAME plus Avatar PLX and TAME alone and the rotation instructions to avoid potential resistance.
Roses	Aphids, Japanese Beetle, Leafroller, Thrips	0.5 - 1.5 lbs. (16 - 24 oz.)	Apply as leafrollers begin to appear. Use the higher labeled rate within the specified range when large larvae are present.	Apply the specified amount of Avatar PLX in 100 gallons of water with a hydraulic sprayer as a full coverage spray.  Application to Roses in flower may result in flower damage.

**OUTDOOR ORNAMENTAL PLANTS, FLORAL CROPS, GROUND COVERS,  
AND FOLIAGE PLANT CROPS (Plants Not Produced For Cut Flowers)**

**Restrictions:**

- Do not apply more than 1.5 lbs. (24 oz.) of product per 100 gallons of water per acre.
- Do not apply with low pressure handwand equipment.
- For repeat applications use a minimum spray interval of 14 days.
- Do not apply under conditions involving possible drift to food, forage, and other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.
- Do not exceed a total of 0.4 lb. imidacloprid a.i.(8 lbs. Avatar PLX) per acre per year from all applications of all products containing this active ingredient.



- Do not apply while bees are foraging in the treatment area. Do not apply to plants that are flowering. Only apply after all flower petals have fallen off.

PLANT	PESTS CONTROLLED	AMOUNT AVATAR PLX PER 100 GALLONS	TIME OF APPLICATION	FURTHER USE INSTRUCTIONS
Carnations, Chrysanthemums	Aphids, Thrips	1 lb. (16 oz.)	Apply as aphids begin to appear.  Make application as thrips begin to appear or at the tight flower bud stage.  Repeat applications may be necessary, not to exceed maximum use rate.	Apply the specified amount of Avatar PLX in 100 gallons of water with a hydraulic sprayer as a full coverage spray.  Phytotoxicity has occurred on the following Chrysanthemum varieties: Albatross, Bonnie Jean, Dixie, Garland, Gem, Iceberg, Pride, Showoff, Statesman, Tally Ho, Westward Ho, and Wild Honey. Do not apply more often than once every 28 days to Carnations and Chrysanthemums.  Before treating large Chrysanthemum plantings, spray only a few plants and observe two weeks for varietal phytotoxicity. Applications to Chrysanthemums in flower may result in flower damage.

**OUTDOOR ORNAMENTAL PLANTS, FLORAL CROPS, GROUND COVERS,  
AND FOLIAGE PLANT CROPS (Plants Not Produced For Cut Flowers) - continued**

PLANT	PESTS CONTROLLED	AMOUNT AVATAR PLX PER 100 GALLONS	TIME OF APPLICATION	FURTHER USE INSTRUCTIONS
Anthuriums, Cacti, Calla Lily, Dahlias, Daisies, Easter Lily, Foliage Plants, Gladioli, Gypsophila, Orchids, Pachysandra, Pansy, Peony, Poinsettia, Sedum, Statice, Strawflower , Yarrow, Zinnia,	Aphids	1 lb. (16 oz.)	Apply as aphids begin to appear.	Apply the specified amount of Avatar PLX in 100 gallons of water with a hydraulic sprayer as a full coverage spray. The addition of a wetting agent may be required on difficult to wet foliage.
	Mealybug, Thrips, Whitefly	1 lb. (16 oz.)	Apply as the insects begin to appear. A repeat application at a 2-week interval may be necessary for control of mealybugs and whiteflies.	Caution: Phytotoxicity has occurred on the following foliage plants: <i>Blechnum gibbum</i> , <i>Cissus antartica</i> , <i>Ficus triangularis</i> , <i>Fittonia verschaffeltii</i> , <i>Maranta leuconeura kerchoveana</i> , <i>Pachystachya lutea</i> , <i>Plectranthus australis</i> , <i>Polypodium aureus</i> , <i>Polystichum</i> , <i>Pteris ensiformis</i> , <i>Tolmiea menziesii</i> . Before treating large plantings, spray only a few plants and observe 2 weeks for varietal phytotoxicity. Application of Avatar PLX on Poinsettias after bract formation may result in phytotoxicity on certain varieties.
	Scales (Crawlers)	1 lb. (16 oz.)	Apply as crawlers begin to appear. Repeat applications, at 2-week or more intervals, may be necessary where there is continuous crawler production.	
	Sweetpotato Whitefly (except California)	0.5 lb. (8 oz.)  +  10 2/3 fl. oz. (0.2 lb. a.i.) TAME® 2.4 EC Spray	Apply when insects first appear. If a population is well established, make one application of the tank mix and follow 5 to 7 days later with TAME alone at 16 fl. oz./100 gallons. See TAME label for instructions.	For Sweetpotato whitefly control, apply the specified amount of Avatar PLX plus TAME 2.4 EC Spray as a tank mix at a volume necessary to obtain good coverage. Follow the TAME label for specific instructions on the alternation of TAME plus Avatar PLX and TAME alone and the rotation instructions to avoid potential resistance.

**OUTDOOR ORNAMENTAL PLANTS, FLORAL CROPS, GROUND COVERS,  
AND FOLIAGE PLANT CROPS (Plants Not Produced For Cut Flowers) – continued**

PLANT	PESTS CONTROLLED	AMOUNT AVATAR PLX PER 100 GALLONS	TIME OF APPLICATION	FURTHER USE INSTRUCTIONS
Roses	Aphids, Japanese Beetle, Leafroller, Thrips	0.5 - 1.5 lbs. (16 - 24 oz.)	Apply as leafrollers begin to appear. Use the higher labeled rate within the specified range when large larvae are present.	Apply the specified amount of Avatar PLX in 100 gallons of water with a hydraulic sprayer as a full coverage spray.  Application to Roses in flower may result in flower damage.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Keep pesticide in original container. Do not put concentrate or dilute product into food or drink containers. Store in cool, dry place. Protect from excessive heat. Do not contaminate food or foodstuffs. Do not store near feed or food.

**PESTICIDE DISPOSAL:** To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

**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 or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**IMPORTANT INFORMATION  
READ BEFORE USING PRODUCT**

**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If the terms are not acceptable, do not use the product and instead, return the unopened product container immediately. By using this product, you accept the following Conditions, Disclaimer of Warranties and Limitation of Liability.

For technical information, contact Aquatrols Corporation of America at 800-257-7797.

CONDITIONS: The directions for use on this label are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Insufficient performance or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions, the failure to follow the label directions or good application practices, all of which are beyond the control of Aquatrols Corporation of America. In addition, failure to follow label directions may cause poor performance, injury to crop, animals, human, or the environment. You assumed all such risks by using this product.

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## **IMPORTANT INFORMATION READ BEFORE USING PRODUCT**

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**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and 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.

The Directions for Use of this product reflect the opinion of experts based on field use and tests, and must be followed carefully. 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 manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of United Phosphorus, Inc. or Seller. Handling, storage, and use of the product by Buyer or User are beyond the control of United Phosphorus, Inc. and Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold United Phosphorus, Inc. and Seller harmless for any claims relating to such factors.

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### **TANK MIXES**

**NOTICE:** Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor.

Read and follow the entire label of each product to be used in the tank mix with this product.