



**Phoenix**  
ENVIRONMENTAL CARE

# Avatar<sup>TM</sup>

INSECTICIDE

<b>ACTIVE INGREDIENTS:</b>	<b>By Wt.</b>
Acephate (O, S-Dimethyl acetylphosphoramidothioate) .....	75.0%
<b>OTHER INGREDIENTS:</b> .....	25.0%
<b>TOTAL</b> .....	<b>100.0%</b>

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

<b>FIRST AID</b>	
Acephate is an organophosphate, cholinesterase inhibitor.	
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF IN EYES</b>	<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>
<b>IF ON SKIN OR CLOTHING</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF INHALED</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>HOTLINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-888-875-1724 for emergency medical treatment information.	
<b>NOTE TO PHYSICIAN</b>	
Acephate is a cholinesterase inhibitor. Measurement of blood cholinesterase activity may be useful in monitoring exposure but decisions regarding treatment will usually need to be made before test results are available. If signs of cholinesterase inhibition appear, atropine sulfate is antidotal. 2-PAM (PROTOPAM) is also antidotal and may be used in conjunction with atropine but should not be used alone.	

**Manufactured for: Phoenix Environmental Care, LLC**  
Valdosta, GA 31601

EPA Reg. No. 81964-2-81943

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMAN AND DOMESTIC ANIMALS**  
**CAUTION**

Harmful if swallowed or inhaled. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove and wash contaminated clothing before reuse. Do not allow children or pets to come into contact with treated areas until sprays have dried

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to birds. 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 and its degradate are 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 while bees are actively visiting the treatment area.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are barrier laminate, butyl rubber  $\geq$  14 mils, nitrile rubber  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils and natural rubber  $\geq$  14 mils. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

**Mixers, loaders, applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Socks and shoes
- Chemical-resistant gloves for all mixers and loaders and for applicators using hand-held application equipment.

In addition, applicators using low-pressure hand wand application equipment must wear:

- A NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any N, R, P, or HE filter.

See engineering controls for additional requirements.

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

**ENGINEERING CONTROLS**

Water-soluble packets when used correctly qualify as a closed mixing/loading system under the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240(d)(4)]. Mixers and loaders using water-soluble packets must:

- Wear the personal protective equipment required above for mixers/loaders, and
- Be provided, and must have immediately available for use in an emergency, such as a broken package, spill, or equipment breakdown the following PPE: coveralls, chemical-resistant footwear and a NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any N, R, P, or HE filter.

Pilots must use an enclosed cockpit in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].

The use of human flaggers is prohibited.

**USER SAFETY RECOMMENDATIONS**

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should 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.

**GENERAL INFORMATION**

Avatar is a soluble powder used as an insecticide for control of pests on selected agricultural crops and in certain non-crop areas. The active ingredient in Avatar is absorbed by plants via the roots and foliage to provide systemic control of feeding insects.

Because it is impossible to test this product for every combination of cultivar, soil and horticultural practice, it is the responsibility of the user to ensure that Avatar is compatible with the variety or cultivar of the ornamental crop to which you are making an application under your specific conditions. Test the product on a limited scale and observe for phytotoxicity over a two-week period prior to making large-scale applications.

FAILURE TO FOLLOW THE INSTRUCTIONS IN THIS LABEL MAY RESULT IN POOR INSECT CONTROL, CROP INJURY, AND/OR ILLEGAL RESIDUES.

**DIRECTIONS FOR USE**

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

**READ THE 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, 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 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 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:

- Coveralls
- Chemical-resistant gloves made out 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 Standards for agricultural pesticide [40 CFR Part 170]. The WSP applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

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

## GENERAL USE GUIDELINES

- Insect pests are generally controlled more effectively by Avatar through ingestion than by contact.
- Make repeat applications of Avatar to maintain control only as directed.
- Do not apply in conditions that may result in possible drift to food, forage or other plantings that could be damaged, or the crops thereof rendered unfit for sale, use or consumption.
- Avatar is NOT for indoor residential use.

### TANK MIXES

- When tank mixing Avatar with other products, read the entire label of each product being added to the mix and follow the most restrictive guidelines applicable to your situation.
- The user, applicator and/or application advisor accepts full responsibility for using this product with any other product or application method not expressly authorized by this label.

### CHEMIGATION

- Only cranberries can have this product applied by chemigation (sprinkler irrigation) system.
- Do not apply to cranberries using any other type of irrigation system.

### HAND WAND RESTRICTIONS

- Agricultural Uses - Low-pressure hand wand equipment may only be used for mound treatment to control fire ants.
- Non-Agricultural Uses - Low-pressure hand wand equipment may only be used for mound treatment to control fire ants and on ornamental trees, shrubs and floral plants only when grown for non-agricultural or non-commercial use.
- Low-pressure hand wand equipment may not be used for perimeter control or wasp treatments.

## WATER SOLUBLE PACKAGING

NOTE: Refer to the Table of Equivalents below to calculate the number of packets to use.

### MULTIPLE PACKAGING

This container holds water-soluble packets of Avatar. Do not puncture or rupture the packets or expose them to any moisture, including handling with wet gloves, before placing the packets into the spray tank. To protect any remaining unused packets, be sure to store them in the original outer container.

### PREPARATION OF SPRAY SOLUTION

1. Drop the unopened packet(s) of Avatar into a spray tank containing at least one-half the total quantity of water required.
2. Start the agitator and continue adding water until the desired volume is reached by spraying directly at the packet(s) in order to dissolve the packet(s) and release the Avatar.
3. Do not add any partners (such as liquid fertilizers, micronutrients or adjuvants) to the tank mix until after the packet(s) and its / their contents have completely dissolved.

NOTE: The water-soluble packet(s) should completely dissolve in approximately five minutes. The timing may be impacted (slowed) by insufficient agitation, cold water, or water containing high concentrations of sulfur or boron.

**TABLE OF EQUIVALENTS**

<b>Amount of Avatar</b>	1 1/3 lbs.	1 lb.	2/3 lb.	1/3 lb.	4 oz.	2 oz.
<b>Amount Active Contained</b>	1 lb.	3/4 lb.	1/2 lb.	1/4 lb.	1/5 lb.	1/10 lb.

**Table of Equivalents for 1/3 lb. Packet**

<b>Avatar Application Rate (per Acre)</b>	<b>Acres Treated by a 1/3 lb. Water Soluble Packet</b>
2 oz.	2.66
2.7 oz.	2.00
4 oz.	1.33
1/3 lb.	1.00
2/3 lb.	0.50
1 lb.	0.33
1 1/3 lbs.	0.25
2 2/3 lbs.	0.13
2.7 lbs.	0.12
2.75 lbs.	0.12
3 1/4 lbs.	0.10
4.1 lbs.	0.08
5.2 lbs.	0.06

**Table of Equivalents for 1/2 lb. Packet**

<b>Avatar Application Rate (per Acre)</b>	<b>Acres Treated by a 1/2 lb. Water Soluble Packet</b>
2 oz.	4.00
2.7 oz.	3.00
4 oz.	2.00
1/3 lb.	1.50
2/3 lb.	0.75
1 lb.	0.50
1 1/3 lbs.	0.38
2 2/3 lbs.	0.19
2.7 lbs.	0.19
2.75 lbs.	0.18
3 1/4 lbs.	0.15
4.1 lbs.	0.12
5.2 lbs.	0.10

**Table of Equivalents for 1 lb. Packet**

<b>Avatar Application Rate (per Acre)</b>	<b>Acres Treated by a 1 lb. Water Soluble Packet</b>
2 oz.	8.00
2.7 oz.	5.93
4 oz.	4.00
1/3 lb.	3.00
2/3 lb.	1.50
1 lb.	1.00
1 1/3 lbs.	0.75
2 2/3 lbs.	0.38
2.7 lbs.	0.37
2.75 lbs.	0.36
3 1/4 lbs.	0.3
4.1 lbs.	0.24
5.2 lbs.	0.19

**Table of Equivalents for 2 1/2 lb. Packet**

<b>Avatar Application Rate (per Acre)</b>	<b>Acres Treated by a 2 1/2 lb. Water Soluble Packet</b>
2 oz.	20.00
2.7 oz.	14.81
4 oz.	10.00
1/3 lb.	7.50
2/3 lb.	3.75
1 lb.	2.50
1 1/3 lbs.	1.88
2 2/3 lbs.	0.94
2.7 lbs.	0.93
2.75 lbs.	0.91
3 1/4 lbs.	0.77
4.1 lbs.	0.61
5.2 lbs.	0.50

### SPRAY DRIFT MANAGEMENT

Do not allow spray to drift from the application site and contact people, structures people occupy at any time and the associated property, parks and recreation areas, nontarget crops, aquatic and wetland areas, woodlands, pastures, rangelands, or animals.

For ground boom applications, apply with nozzle height no more than 4 feet above the ground or crop canopy and when wind speed is 10 mph or less at the application site as measured by an anemometer. Use fine or coarser spray according to ASAE 572 definition for standard nozzles or VMD for spinning atomizer nozzles.

For airblast applications, direct spray above foliage and turn off outward pointing nozzles at row ends and outer rows. Apply only when wind speed is 3-10 mph at the application site as measured by an anemometer outside of the treated area on the upwind side.

For aerial applications, the boom width must not exceed 75% of the wingspan or 90% of the rotary blade. Use upwind swath displacement and apply only when wind speed is 3-10 mph as measured by an anemometer. Use fine or coarser spray according to ASAE 572 definition for standard nozzles or VMD for spinning atomizer nozzles. If application includes a no-spray zone, do not release spray at a height greater than 10 feet above the ground or the crop canopy.

For overhead chemigation, apply only when wind speed is 10 mph or less.

The applicator also must use all other measures necessary to control drift.

### NON-CROP AREAS

#### FIELD BORDERS, FENCEROWS, ROADSIDES, DITCHBANKS, BORROW PITS

##### USE PRECAUTIONS:

- Do not graze or feed vegetation cut from treated areas.

##### GENERAL INSTRUCTIONS

- Make applications only early to mid-season.
- Use the higher application rates when applying to dense foliage.

##### FOLIAR APPLICATIONS:

By Ground: Apply using 10 to 20 gallons per acre.

By Air: Apply using 1 to 5 gallon per acre (except in CA where a minimum of 5 gallons per acre must be used)

<b>PESTS CONTROLLED</b>	<b>AVATAR APPLICATION RATE (PER ACRE)</b>	<b>SPECIFIC INSTRUCTIONS</b>
Grasshoppers	1/3 lb.	Use of an approved drift retardant to assist in controlling drift and reducing evaporation is acceptable.

#### WASTELAND (NON-CROP AREAS)

##### USE PRECAUTIONS:

- Do not make more than one application per season.
- Do not graze or feed vegetation cut from treated areas.
- Do not allow animals to graze on treated areas.

##### GENERAL INSTRUCTIONS

- Use the higher application rates when applying to dense foliage.

##### FOLIAR APPLICATIONS:

By Ground: Apply using 10 to 20 gallons per acre.

By Air: Apply using 1/2 gallon per acre (except in CA where a minimum of 5 gallons per acre must be used)

<b>PESTS CONTROLLED</b>	<b>AVATAR APPLICATION RATE (PER ACRE)</b>	<b>SPECIFIC INSTRUCTIONS</b>
Black Grass Bugs Grasshoppers Mormon Crickets	1/8 to 1/6 lb. (2.0 to 2.7 oz.)	If necessary/desired, add an approved drift retardant to assist in controlling drift and reducing evaporation.

## SPECIALTY USES - NON CROP AREAS

### USE PRECAUTIONS:

- Do not treat mound more than once per season.
- Grass in treated area may be injured.

PESTS CONTROLLED	AVATAR APPLICATION RATE (PER ACRE)	SPECIFIC INSTRUCTIONS
Ants (including Imported Fire Ants and Harvester Ants)	<b>Drench Method:</b> Mix 1/3 lb. in 26.6 gallons of water.	Apply 1 gallon of mix to each mound area by sprinkling the mound until it is wet. Treat all areas within four feet of the mound. Treat a maximum of 13 mounds per acre. Do not treat more than once per season. For best results: Apply in the early morning or late afternoon, when ants are most active. Application under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest.

## SPECIALTY USES - CONTAINER GROWN ORNAMENTAL NURSERY STOCK

### USE PRECAUTIONS:

- When used on greenhouse and outdoor ornamentals, do not apply more than 1.0 pound of active ingredient / acre per 100 gallons of water.
- Do not exceed 0.75 pounds of active ingredient / acre for cut flowers and 1.0 pound of active ingredient / acre for all other ornamentals.
- Allow a minimum of 7 days between applications.

### GENERAL INSTRUCTIONS:

- Apply the specified amount of Avatar per 100 gals. of solution so as to thoroughly drench the root system.

PLANTS	PESTS CONTROLLED	AVATAR APPLICATION RATE (PER ACRE)	APPLICATION TIMING
<b>Container Grown Ornamental Nursery Stock (Arborvitae, Azalea, Camellia, Rhododendron, Roses, Viburnum, Yew)</b>	Black Vine Weevil Strawberry Root Weevil	1.0 lb. (16 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.
	Ants (including Imported Fire Ants and Harvester Ants)		Apply as needed for control.

## ORNAMENTAL TREES AND SHRUBS

### USE PRECAUTIONS:

- When used on nursery crops, spray several sample plants and observe for signs of phytotoxicity for a minimum of two weeks before applying to all plants.
- Avoid applying to Huckleberry, Balm of Gilead, Cottonwood, Lombardy Poplar and Viburnum suspensum as phytotoxicity may be observed.
- Do not exceed 0.75 pounds of active ingredient / acre for cut flowers and 1.0 pound of active ingredient / acre for all other ornamentals.

### GENERAL INSTRUCTIONS:

- \* Unless otherwise noted, apply the specified amount of Avatar per 100 gallons of water using a hydraulic sprayer.

PLANTS	PESTS CONTROLLED	AVATAR APPLICATION RATE (PER 100 GALLONS)	APPLICATION TIMING	SPECIFIC INSTRUCTIONS
Ornamental Trees and Shrubs (Except Flowering Crabapple, see below)	Aphids Bagworms Birch Leafminer Tent Caterpillars* Lace Bugs Leafrollers	1/3 lb. (5.3 oz.)	Upon appearance of the insects.	To maintain control: For applications of 0.5 lbs. or less active ingredient per acre, repeat applications at 3-day spray intervals as necessary. For applications greater than 0.5 lbs. active ingredient per acre, repeat applications at 7-day spray intervals as necessary. Use of a compatible sticker will improve control of Gypsy Moth larvae. Mist blower application: Adjust rates to 1 1/3 lbs. per 100 gals. water for Gypsy Moth control and 1.0 lb. per 100 gals. water for Tent Caterpillar control.
	Douglas Fir Tussock Moth Larvae Gypsy Moth Larvae* Webworms	2/3 lb. (10.5 oz.)	Upon appearance of the insects.	
	Scales (Crawlers)	2/3 lb. (10.5 oz.)	As crawlers begin to appear.	
	Ponderosa Pine Needle Miner	2/3 lb. (10.5 oz.)	Consult your local County Extension Agent for optimal application timing.	
	Grasshoppers	2/3 lb. (10.5 oz.)	Upon appearance of grasshoppers.	
	California Oakworm Cankerworms (Spring and Fall)	1/3 to 2/3 lb. (5.3 to 10.5 oz.)	Upon appearance of the insects. Use the higher amounts listed when larger larvae are present.	
	Nantucket Pine Tip Moth Larvae	1.0 lb. (16 oz.)	Consult your local County Extension Agent for optimal application timing.	
	Root Weevil Adults	1.0 lb. (16 oz.)	Apply as soon as damage is observed.	
	Box Elder Bugs Sawflies Budworms Leafhoppers	1.0 lb. (16 oz.)	Upon appearance of the insects.	
	Japanese Beetle	1 1/3 lbs. (21.3 oz.)	Apply as soon as insects are observed.	
Elm Leaf Beetle (larvae)	1 1/3 lbs. (21.3 oz.)	As the larvae begin to appear. Avatar will not prevent Elm Leaf Beetle eggs from hatching.		
Douglas Fir (Christmas Trees)	Douglas Fir Needle Midge	2/3 lb. (10.5 oz.) (2/3 lb. per acre)	Application should be made within two weeks of bud burst. For current best practices information, consult your County Extension Service.	Apply the specified amount of Avatar in not less than 2 gals. of spray per acre by air or in 100 gals. of spray per acre by ground.
Flowering Crabapples	Aphids Tent Caterpillars Leafrollers	1/3 lb. (5.3 oz.)	Upon appearance of the insects.	Do not apply more often than 3 times in a growing season (using a minimum of 4-week intervals). Phytotoxicity has been documented on the following crabapple varieties: Hopa, Ichonoski, Malusfloribunda, Pink Perfection, Red Wine and Snow Cloud.

## GOLF COURSE AND SOD FARM TURFGRASS

### USE PRECAUTIONS:

- Do not allow livestock to graze in treated areas.
- Do not feed grass clippings to livestock.
- Use is limited to sod farms and golf courses, except when applying by mound or spot treatment for fire ant and harvester ant control.
- Aerial application to turf is prohibited.
- Wait at least 3 days following the last Avatar application prior to harvesting sod.
- **The maximum application rate is 3 lbs. a.i./acre for sod farms and 4 lbs. a.i./acre for golf courses.**

### GENERAL INSTRUCTIONS:

- Apply as soon as insects or damage caused by the insects first appears.
- To maintain control, repeat applications using a minimum of one-week intervals as necessary.

### Turfgrass (Golf Courses and Sod Farms only)

PESTS CONTROLLED	AVATAR APPLICATION RATE (PER 1000 SQ. FT.)	APPLICATION INSTRUCTIONS	SPECIFIC INSTRUCTIONS
Fall Armyworm Yellow Striped Armyworm Southern Armyworm	1/2 to 1.2 oz. (1 1/3 to 3 1/4 lbs. / acre)	Use a minimum of 5 gals. of water per 1,000 sq. ft. as necessary to obtain good coverage.	To maintain control, repeat applications at 7-day intervals may be necessary.
Cutworm	1.2 to 1.9 oz. (3 1/4 to 5.2 lbs. / acre)		
Chinch Bugs	1.2 to 1.9 oz. (3 1/4 to 5.2 lbs. / acre)	Use 1 to 15 gals. of water per 1,000 sq. ft. as necessary to obtain good coverage.	Use the higher amount when quick knockdown is needed or with heavy infestations. To maintain control, repeat applications at 7-day intervals may be necessary.
Fleas	1.2 to 1.9 oz. (3 1/4 to 5.2 lbs. / acre)		
Sod Webworm (Crambus spp.)	1/2 to 1.0 oz. (1 1/3 to 2 3/4 lbs. / acre)		
Leafhopper	1.0 oz. (2 3/4 lbs. / acre)		
Mole Crickets (except CA)  Spittlebug (except CA)	1.0 to 1.9 oz. (2.66 to 5.2 lbs. / acre)	Use 1 to 15 gals. of water per 1,000 sq. ft. as necessary to obtain good coverage.	For best results, apply after irrigating in the late afternoon or early evening. Do not irrigate after application. A lemon fragrance substance may be added to the spray mix as a flushing agent, potentially providing increased mole cricket contact with Avatar. The following products have been shown to be effective flushing agents: Lemon Palmolive, Lemon Joy, and Mighty Myrt Products Manufacture-Base Pure Lemon Fragrance. Use 2-teaspoons per gallon of water for small mix volumes or 6 fl. oz. per 50 gallons of water for large mix volumes. More than one application may be required for knockdown of existing populations. Allow at least 7 days between applications. For heavy infestations, use the higher dosage rate.
Greenbug ( <i>Schizaphis graminun</i> ) Grasshoppers	1/2 oz. (1 1/3 lbs. / acre)	Use 4 gals. of water per 1,000 sq. ft.	Do not mow turfgrass for at least 24 hours after application.
Black Turfgrass Ataenius (except CA)	1.5 to 1.9 oz. (4.1 to 5.2 lbs. / acre)	Use a minimum of 5 gallons water per 1,000 sq. ft.	Irrigate lightly after application (not more than 1/2 inch). Use the higher rate for severe infestations.



**Dichondra**

(Plant Site for Golf Course and Sod Farm Turfgrass only)

PESTS CONTROLLED	AVATAR APPLICATION RATE (PER 1000 SQ. FT.)	APPLICATION INSTRUCTIONS	SPECIFIC INSTRUCTIONS
Cutworm Flea Beetle Southern Armyworm Yellow Striped Armyworm	1.0 to 1.9 oz. (2.7 to 5.2 lbs. / acre)	Use a minimum of 15 gals. of water per 1,000 sq. ft. to obtain good coverage.	

**MOUND TREATMENT OF FIRE ANTS AND HARVESTER ANTS IN TURFGRASS****USE PRECAUTIONS:**

- Grass in treated areas may be injured.
- Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest.

AVATAR APPLICATION RATE	APPLICATION INSTRUCTIONS	SPECIFIC INSTRUCTIONS
<b>Mound Treatment</b> <b>Drench Method:</b> Mix 1/3 lb. in 26.6 gals. of water.	For best results, apply when the ants are most active (in the early morning or late afternoon).	Apply 1 gallon of mix to each mound area by sprinkling the mound until it is wet. Treat all areas within four feet of the mound. Do not treat mound more than once per season.

**OUTDOOR AND PERIMETER SPRAY****USE PRECAUTIONS:**

- Not for use on residential turfgrass.

**GENERAL INSTRUCTIONS:**

- Apply as soon as insects appear.

PEST CONTROLLED	AVATAR APPLICATION RATE	SPECIAL INSTRUCTIONS	APPLICATION INSTRUCTIONS
Wasps	1/3 lb. in 3.3 gals. of water	Treat when wasps are less active (early or late in the day).	Apply as a spot treatment to the nest, nest entrance, and surrounding areas where the wasps may land.
Ants (including Imported Fire Ants and Harvester Ants) Crickets Cockroaches Earwigs Pillbugs	1/3 lb. in 3.3 gals. of water		Apply to the ground within 6 to 10 feet of the structure and to a height of 2 to 3 feet on the foundation. Apply using 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 the insects may occur.

## OUTDOOR FLORAL CROPS AND GROUND COVERS

**USE PRECAUTIONS:**

- When used on greenhouse and outdoor ornamentals, application is limited to 1.0 lb. of active ingredient per 100 gallons of water.
- Do not exceed 0.75 pounds of active ingredient / acre for cut flowers and 1.0 pound of active ingredient / acre for all other ornamentals.
- Multiple applications may cause slight tip burn or marginal leaf necrosis on some varieties. A test should be made on a sample plant to determine if unacceptable damage occurs prior to application to all plants.

**GENERAL INSTRUCTIONS:**

- Apply as insects begin to appear.
- Apply as a full coverage spray using a hydraulic sprayer.

PLANTS	PESTS CONTROLLED	AVATAR APPLICATION RATE (PER 100 GAL.)	APPLICATION TIMING
Chrysanthemums Daisies Dahlias Easter Lily Gladioli Gypsophila Pachysandra Pansy Peony Roses Sedum Statice Strawflower Yarrow Zinnia	Aphids Thrips Lygus	2/3 lb. (10.5 oz.)	To maintain control repeat applications may be necessary. Allow a minimum of 3 days between applications.
Roses Boston Ivy	Japanese Beetle	1 1/3 lbs. (21.3 oz.)	To maintain control, repeat applications may be necessary. Allow a minimum of 7 days between applications.

## GREENHOUSE FLORAL AND FOLIAGE PLANT CROPS

**USE PRECAUTIONS:**

- When used on greenhouse and outdoor ornamentals, application is limited to 1.0 lb. of active ingredient per 100 gallons of water.
- Do not exceed 0.75 pounds of active ingredient / acre for cut flowers and 1.0 pound of active ingredient / acre for all other ornamentals.
- Multiple applications may cause slight tip burn or marginal leaf necrosis on some varieties. A test should be made on a sample plant to determine if unacceptable damage occurs prior to application to all plants.
- Phytotoxicity has occurred on the following foliage plants:

- Blechnum gibbum
- Cissus Antarctica
- Ficus triangularis
- Fittonia verschaffelti
- Maranta leuconeura kerchoveana
- Pachystachya lutea
- Plectranthus australis
- Polypodium aureus
- Polystichum
- Pteris ensiformis
- Tolmiea menziesii

Before treating large plantings, spray a test sample of plants and observe for 2-weeks for varietal phytotoxicity.

- Avatar applications on certain varieties of Poinsettias after bract formation may result in phytotoxicity.
- Phytotoxicity has occurred on the following Chrysanthemum varieties:

- Albatross
- Bonnie Jean
- Dixie
- Garland
- Gem
- Iceberg
- Pride
- Showoff
- Statesman
- Tally Ho
- Westward Ho
- Wild Honey

Before treating large Chrysanthemum plantings, spray a test sample of plants and observe for 2-weeks for varietal phytotoxicity.

**GENERAL INSTRUCTIONS:**

- Apply as insects begin to appear.
- Unless otherwise instructed, apply as a full coverage spray using a hydraulic sprayer.

PLANTS	PESTS CONTROLLED	AVATAR APPLICATION RATE (PER 100 GALLONS)	APPLICATION TIMING	SPECIFIC INSTRUCTIONS
Roses	Leafrollers	2/3 to 1.0 lb. (10.5 to 16 oz.)	Apply with a hydraulic sprayer as a full coverage spray. To maintain control: For applications of 0.5 lbs. or less active ingredient per acre, repeat applications at a 3-day minimum spray interval. For applications greater than 0.5 lbs. active ingredient per acre, repeat applications at a 7-day minimum spray interval.	Use the higher amount listed when large larvae are present.
Foliage Plants Anthuriums Cacti Orchids Poinsettia	Aphids	1/3 lb. (5.3 oz.)	Apply with a hydraulic sprayer as a full coverage spray. Allow a minimum of 3 days between applications.	A wetting agent may be necessary when applying to difficult to wet foliage.
	Mealybugs Thrips Whiteflies	2/3 lb. (10.5 oz.)	To maintain control of mealybugs and whiteflies, repeat applications at a minimum of 3-day spray intervals.	
	Scales (Crawlers)	2/3 lb. (10.5 oz.)	To maintain control when there is continuous crawler production, repeat applications at a minimum of 3-day spray intervals.	
	Sweet Potato Whiteflies (except CA)	1/3 lb. (5.3 oz.) + Tame® 2.4 EC Spray 10 2/3 fl. oz. (0.2 lb. a.i.)	Allow a minimum of 3 days between applications. If a population is well established, make one application of the tank mix and follow in 5 to 7 days with Tame® alone at 16 fl. oz./100 gals. (See Tame(r) label for instructions).	Apply as a tank mix at a volume that ensures good coverage. To avoid potential resistance, follow the Tame® label for specific instructions on the alternation of Tame® plus Avatar and Tame® alone.
Roses Carnations Chrysanthemums	Aphids Thrips	2/3 lb. (10.5 oz.)	Apply with a hydraulic sprayer as a full coverage spray. Apply as insects appear or at the tight flower bud stage. To maintain control, repeat applications may be necessary using the following restrictions: A minimum of 3 days between applications to roses. A minimum of 28 days between applications to Carnations and Chrysanthemums.	Application to Chrysanthemums and Roses with open flowers will cause injury to the flowers.

**Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.**

## STORAGE AND DIAPOSAL

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

**PESTICIDE STORAGE:** Keep pesticide in original container. Store in a cool, dry place away from excessive heat. Do not put concentrate or dilute into food or drink containers.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Do not reuse the outer bag. Dispose of outer bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

## LIMITED WARRANTY AND DISCLAIMER

Our recommendations for use of this product are based upon tests believed to be reliable. The use of this product being beyond control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such use or the results to be obtained if not used in accordance with printed directions and established safe practice. Buyer's exclusive remedy and manufacturer's or seller's exclusive liability 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.

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