

432-1361

11/29/2008

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460



NOV 20 2008

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Norma Pangilinan, Ph.D  
Bayer Environmental Science  
2 T.W. Alexander Drive  
Research Triangle Park, NC 27709

Dear Dr. Pangilinan:

Subject: Fast Track Amendment of label to revise pesticide resistance statements; clarify directions for use, warranty and reuse statement, and other minor changes  
Merit 60 WSP Greenhouse and Nursery Insecticide  
EPA Registration No. 432-1361  
Your Submissions Dated 9/29/08

The labeling referred to above submitted in connection with the Federal Insecticide, Fungicide and Rodenticide, is amended as acceptable.

A stamped copy of the labeling is enclosed for your records. Please submit one final printed copy of the labeling before releasing the product for shipment. If you have any questions regarding this label, please contact Autumn Metzger at (703) 305-5314.

Sincerely,

A handwritten signature in cursive script that reads "Venus Eagle".

Venus Eagle  
Product Manager 01  
Insecticide-Rodenticide Branch  
Registration Division (7505P)

# Merit<sup>®</sup> 60 WSP Greenhouse and Nursery Insecticide

For foliar and systemic insect control on ornamental and vegetable plants in greenhouses, nurseries and interior plantscapes.

## ACTIVE INGREDIENT:

ACCEPTED

NOV 20 2008

Imidacloprid, 1-[(6-Chloro-3-pyridinyl)methyl]-

-N-nitro-2-imidazolidinimine

Under the Federal Insecticide, Fungicide, 60.0%

## OTHER INGREDIENTS:

and Rodenticide Act, as amended, for the 40.0%

pesticide registered under: 100.0%

Keep water soluble packets in this container and store in a cool dry place but not below freezing (32°F).

Do Not Remove Packets From Container Except For Immediate Use

EPA Reg. No. 432-1361

EPA Est. No. \_\_\_\_\_

EPA Reg. No. 432-1361

Net Contents: 4, 20 g (0.7 oz) packets/pouch (2.8 oz/pouch), 6, 50 g (0.7 oz) packets/pouch (120 g or 4.2 oz/pouch)

## STOP - READ THE LABEL BEFORE USE KEEP OUT OF REACH OF CHILDREN CAUTION

PRECAUCION AL USUARIO: Si usted no puede leer o entender inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

(TO THE USER: If you cannot read or understand English, do not use this product until the label has been fully explained to you.)

For MEDICAL and TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577  
For PRODUCT USE Information Call 1-800-331-2867

### FIRST AID

If swallowed:	<ul style="list-style-type: none"> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
If inhaled:	<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>
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 to 20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
If in eyes:	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>

In case of emergency call toll free the Bayer Environmental Science Emergency Response Telephone No. 1-800-334-7577. Have a product container or label with you when calling a poison control center or doctor, or going for treatment.

**Note To Physician:** No specific antidote is available. Treat the patient symptomatically.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed, inhaled, or absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing dust or vapor.

**Personal Protective Equipment (PPE),**

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton
- Shoes plus socks

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

**Engineering controls statements:**

- When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**User Safety Recommendations**

**User should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

This product is highly toxic to aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

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

This chemical demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

**DIRECTIONS FOR USE**

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

**Exception:** If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton
- Shoes plus socks

**Do not formulate this product into other end-use products.**

## STORAGE AND DISPOSAL

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

**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:** Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. After removal of all PVA packets, dispose of empty container in a sanitary landfill, by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Pesticide Storage:** Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Handle and open container in a manner as to prevent spillage. If the container is leaking, invert to prevent leakage. If container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides above. In spill or leak incidents, keep unauthorized people away. You may contact the Bayer Environmental Science Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer Environmental Science Emergency Response Telephone No. is 1-800-334-7577 or contact Chemtrec at 1-800-424-9300.

## Product Information

MERIT 60 WSP Greenhouse and Nursery Insecticide is for insect control on ornamental and vegetable plants in nurseries, greenhouses and interior plantscapes. MERIT 60 Greenhouse and Nursery Insecticide may be applied either as a spray or as a drench. Thorough coverage is required when applied as a spray. MERIT 60 WSP Greenhouse and Nursery Insecticide is a systemic product and will be translocated upward within the plant when applied as a drench. To assure optimum effectiveness, the product must be placed where the roots of the plant can absorb the active ingredient. Irrigate moderately but thoroughly after application, allowing no leaching and runoff from container for at least three irrigations or 10 days whichever is longer.

**Resistance:** Some insects are known to develop resistance to insecticides after repeated use. As with any insecticide, the use of this product should conform to resistance management strategies established for the use area.

MERIT 60 WSP Greenhouse and Nursery Insecticide contains a Group 4A insecticide. Insect biotypes with acquired or inherent resistance to Group 4A insecticides may eventually dominate the insect population if Group 4A insecticides are used repeatedly as the predominant method of control for targeted species.

The active ingredient in MERIT 60 WSP Greenhouse and Nursery Insecticide is a member of the neonicotinoid chemical class. Insect pests resistant to other chemical classes have not shown cross-resistance to MERIT 60 WSP Greenhouse and Nursery Insecticide.

Contact your Cooperative 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://www.ircac-online.org/>.

For resistance management purposes, a foliar application of any chloronicotinyl insecticide following a MERIT 60 WSP Greenhouse and Nursery Insecticide soil application in the same crop is not recommended.

**Incorporation:** Incorporation of MERIT 60 WSP Greenhouse and Nursery Insecticide can be achieved by cultivation, irrigation, rainfall, mechanical placement, soil injection, drenching, and broadcast sprays.

**Woody Perennials:** Onset of protection is slower than in herbaceous species. A delay of 2 or more weeks should be expected. Longer delays may be expected with larger plants. Therefore, make application well in advance of expected insect activity.

**Bark Media:** Media with 30 to 50% or more bark content may confer a shorter period of protection when treated with MERIT 60 WSP Greenhouse and Nursery Insecticide.

**Tank Mixes:** MERIT 60 WSP Greenhouse and Nursery Insecticide has been found to be compatible with commonly used liquid fertilizers, fungicides and insecticides. Check physical compatibility using the correct proportion of products in a small jar test if local experience is unavailable.

**RESTRICTION:** Do not use MERIT 60 WSP Greenhouse and Nursery Insecticide packets in a tank mix with products that contain boron or release free chlorine. The resultant reaction of PVA and boron or free chlorine is a plastic which is not soluble in water. However, normal chlorinated water is acceptable for mixing.

**MIXING:** Within each foil pouch is a clear inner packet containing MERIT 60 WSP Greenhouse and Nursery Insecticide. The clear inner packet is water soluble. Do not allow packets to become wet prior to adding to the tank. Do not handle the clear inner packets with wet hands or wet gloves. Rough handling may cause breakage. Reseal outer carton to protect remaining packets.

To prepare the mixture, remove the outer foil pouch and drop the required number of unopened clear water soluble packets into the spray tank while filling the tank with the desired amount of water. The required number of packets is specified under 'Dose' in the tables below. Operate the agitator while mixing. Depending on the water temperature and the degree of agitation, the packets should be completely dissolved within a few minutes from the time they are added to the water. Cooler water temperatures increase the time needed for the inner packet to dissolve completely.

## APPLICATION TO GRASSY AREAS IN NURSERIES

MERIT 60 WSP Greenhouse and Nursery Insecticide can be used for the control of soil inhabiting pests of grassy areas of nurseries, such as northern and southern masked chafers, *Cyclocephala borealis*, *C. immaculata*, and/or *C. lurida*; Asiatic garden beetle, *Maladera castanea*; European chafer, *Rhizotrogus majalis*; green June beetle, *Cotinis nitida*; May or June beetle, *Phyllophaga* spp.; Japanese beetle, *Popillia japonica*; Oriental beetle, *Anomala orientalis*; sugarcane beetle, *Euethela rugiceps humulis*; billbugs, *Spherophorus* spp.; annual bluegrass weevil, *Listronotus maculicollis*; black turfgrass ateniuss, *Ataenius spretulus*; *Aphodius* spp. crane flies, *Tipula* spp.; and mole crickets, *Scapteriscus* spp. MERIT 60 WSP Greenhouse and Nursery Insecticide can also be used

for suppression of cutworms and chinch . MERIT 60 WSP Greenhouse and Nursery I. ticide can be used as directed on nursery grass in sites such as under or around field or container grown plants, on roadways or other grassy areas in or around nurseries. MERIT 60 WSP Greenhouse and Nursery Insecticide cannot be used on commercial sod farms.

The active ingredient in MERIT 60 WSP Greenhouse and Nursery Insecticide has sufficient residual activity so that applications can be made preceding the egg laying activity of the target pests. High levels of control can be achieved when applications are made preceding or during the egg laying period. The need for an application can be based on historical monitoring of the site, previous records or experiences, current season adult trapping or other methods. Optimum control will be achieved when applications are made prior to egg hatch of the target pests, followed by sufficient irrigation or rainfall to move the active ingredient through the thatch.

Do not apply to grassy areas if the soil is waterlogged or saturated with water. Adequate distribution of the active ingredient cannot be achieved when these conditions exist. The treated grassy area must be in such a condition that the rainfall or irrigation will penetrate vertically in the soil profile. Application cannot exceed a total of 10.7 oz (0.4 lb of active ingredient) per acre per year.

**Application Equipment for Use on Grassy Areas in Nurseries:** Apply MERIT 60 WSP Greenhouse and Nursery Insecticide in sufficient water to provide adequate distribution in the treated area. The use of accurately calibrated equipment normally used for soil application of 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.

**APPLICATION THROUGH IRRIGATION SYSTEMS**

Apply MERIT 60 WSP Greenhouse and Nursery Insecticide at rates indicated on this label either alone or in tank mixture with other pesticides and chemicals registered for application through irrigation systems. The normal dilution ratio is 1:10 to 1:200, depending on the system. Always meter the product into the irrigation water during the first part of the irrigation cycle. The product may be mixed separately prior to injection. Agitation may be necessary if the mixture is allowed to stand more than 24 hours.

Remove scale, pesticide residue and other foreign matter from the tank and entire irrigation system.

Apply MERIT 60 WSP Greenhouse and Nursery Insecticide only through microirrigation (individual spaghetti tube), drip irrigation, overhead irrigation, ebb and flood, or hand-held or motorized calibrated irrigation equipment.

Do not apply this product through any other type of irrigation system. Crop injury or lack of effectiveness can result from nonuniform distribution of treated water.

If you have any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or a person who is under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

**SAFETY DEVICES FOR IRRIGATION SYSTEMS CONNECTED TO PUBLIC WATER SUPPLIES:**

If the source of water for your irrigation system is a public water supply, follow the instructions below.

1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, water from the public water system must be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
4. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.

**SAFETY DEVICES FOR IRRIGATION SYSTEMS NOT CONNECTED TO A PUBLIC WATER SUPPLY:**

1. The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.



**For foliar and systemic insect control in and around field-grown nursery and container stock, indoor and outdoor ornamentals (including both greenhouse and interior plantscapes), ornamentals grown in flats benches or beds, and vegetable plants for transplant and resale**

CROP	PEST	DOSE
<b>Trees</b> (including non-bearing fruit and nut) <b>Shrubs</b> <b>Evergreens</b> <b>Flowers</b> <b>Foliage plants</b>	Adelgids Aphids Japanese beetles (adults) Lacebugs Leaf beetles (including elm and viburnum leaf beetles) Leafhoppers (including glassy-winged sharpshooter) Leafminers Mealybugs Sawfly larvae Thrips (suppression) Whiteflies	One packet per 100 gal water
<b>Ground covers</b> <b>Interior plantscapes</b> <b>Vegetable plants*</b>	<p><b>Foliar Applications:</b> Start treatments prior to establishment of high pest populations and reapply on an as needed basis.</p> <p>For resistance management purposes, a MERIT 60 WSP Greenhouse and Nursery Insecticide foliar application following a soil application in the same crop is not recommended.</p>	
	White grub larvae (such as Japanese beetle larvae, chafers, <i>Phyllophaga</i> spp. Asiatic garden beetle, Oriental beetle)	One packet per 2900-3850 sq ft.
<p><b>Broadcast Applications:</b> Mix required amount of product in sufficient water to uniformly and accurately cover the area being treated. Do not use less than 2 gallons of water per 1000 sq. ft.. Apply specified dosage in enough water to ensure Merit 60 WSP Greenhouse and Nursery Insecticide reaches the root zone but does not leach out of the container.</p> <p>Apply as a broadcast treatment and incorporate into the soil before planting or apply after plants are established. If application is made to established plants, optimum control will be attained if area is irrigated thoroughly after application.</p> <p>* Only for use on the following vegetable plants: Broccoli, Chinese broccoli, Broccoli raab, Brussels sprouts, Cabbage, Chinese Cabbage, Cauliflower, Collards, Eggplant, Ground cherry, Kale, Kohlrabi, Lettuce, Mustard greens, Pepinos, Peppers, Potatoes, Rape greens, Sorghum, Sugarbeets, Tomatillo, and Tomato.</p>		

### DRENCH AND IRRIGATION APPLICATIONS

For use only on ornamental and vegetable plants in greenhouses, nurseries and interior plantscapes using soil drenches, micro-irrigation, drip irrigation, overhead irrigation, ebb and flood irrigation, or hand-held or motorized calibrated irrigation equipment.

PEST	USE PATTERN		DOSE - MERIT 60 WSP		APPLICATION INSTRUCTIONS
Adelgids	Plants in containers	Herbaceous species - including vegetables plants <sup>5</sup> (one or two plants per pot)	Container size (inches)	No. pots treated with one (1) Packet	Evenly distribute one (1) packet of MERIT 60 WSP in the stated number of pots, using sufficient water volume to wet potting medium without loss of liquid through leaching. Apply according to label directions. Follow application with moderate irrigation. Irrigate carefully during the next 10 days in order to avoid loss of active ingredient due to leaching.
Aphids			2	3000	
Armored scale (suppression)			3	2000	
Fungus gnat (larvae only) <sup>1</sup>			4	1500	
Japanese beetles (adults)			5	1200	
Lacebugs			6	1000	
Leaf beetles (including elm and viburnum leaf beetles)			7	850	
Leafhoppers (including glassy-winged sharpshooter)			8	750	
Leafminers			9	675	
Mealybugs			10	600	
Psyllids			11	550	
Root mealybugs <sup>2</sup>			12	500	
Root weevil complex (such as Black vine weevil, Apopka weevil, Citrus root weevil <sup>3</sup> )	Woody perennial species	2	2000		
Soft scale		3	1350		
Thrips (suppression) <sup>4</sup>		4	1000		
White grub larvae (such as Japanese beetle, Masked chafers, European chafer, Oriental beetle, Asiatic garden beetle)	Herbaceous species - including vegetables plants <sup>5</sup> (three or more plants per pot)	5	800		
Whiteflies		6	650		
		7	550		
			8	500	
			9	450	
			10	400	
			11	350	
			12	300	
	Ornamental and vegetable <sup>5</sup> plants grown in flats, benches, or beds	Use the above woody perennial species rates			
	Containerized plants	One packet per 3000 sq ft			Mix required amount of product in sufficient water to uniformly and accurately cover the area being treated. Do not use less than 2 gallons of mixture per 1000 sq ft. Apply as a broadcast treatment and incorporate into the medium before planting or apply after plants are established. If application is made to established plants, optimum control will be attained if area is lightly irrigated after application. Allow no leaching or runoff for 10 days after application.
		Container size	No. pots treated with one (1) packet		
		1 gallon	240 to 120		
		2 gallon	120 to 60		
		3 gallon	90 to 40		
		5 gallon	65 to 30		
White grub larvae (such as Japanese beetle, Masked chafers, European chafer, Oriental beetle, Asiatic garden beetle)	Field and forest nurseries	Apply as a uniform band on either side of row using a band six (6) inches wider than the actual root ball diameter to be dug. Do not allow bands in adjacent rows to overlap. Use one (1) packet per 1000 ft. of row or 3000 sq. ft. For grub control in areas of turf, apply as a broadcast application using one (1) packet per 3000 sq. ft.			Vegetation in the area to be treated should be mowed to a height of 3 inches or less prior to application. Mowing to the lowest possible height will insure greater consistency of control. Apply May through July. For optimum control, treatment should be followed by rainfall or irrigation. Do not use less than 2 gallons of spray volume per 1000 square feet.

<sup>1</sup> Fungus gnat larvae in the soil will be controlled by drench or incorporation. **No adult fungus gnat control.** Other foliar insect control is achieved by the uptake of MERIT 60 WSP Greenhouse and Nursery Insecticide from a healthy root system translocating the active ingredient up into the plant.

<sup>2</sup> **Root mealybug** control will require a thorough drenching of containerized media. Coverage is essential for control while minimizing the amount of leachate. Rate: one (1) packet in 150 gallons of water.

<sup>3</sup> **Citrus root weevil:** For use on non-bearing citrus nursery stock.

<sup>4</sup> **Thrips** suppression on foliage only. Thrips in buds and flowers will not be suppressed.

<sup>5</sup> For use only on the following vegetable plants (intended for transplant resale): Broccoli, Chinese Broccoli, Broccoli Raab, Brussels Sprouts, Cabbage, Chinese Cabbage, Cauliflower, Collards, Eggplant, Ground Cherry, Kale, Kohlrabi, Lettuce, Mustard Greens, Pepinos, Peppers, Potatoes, Rape Greens, Sorghum, Sugarbeets, Tomatillo, and Tomato.

**RESTRICTIONS**

- Do not graze treated areas or use clippings from treated areas for feed or forage.
- Do not apply to soils which are water-logged or saturated, which will not allow the penetration of the insecticide into the root zone of the plants
- Do **not** allow leachate runoff for the first 10 days after application, in order to retain the product and facilitate full plant uptake of the active ingredient.
- For outdoor ornamentals, applications of MERIT 60 WSP Greenhouse and Nursery Insecticide cannot exceed a total of 10.7 oz (0.4 lb of active ingredient) per acre per year.
- Minimum interval between foliar application: 14 days.
- **Food Crops:** Treated areas may be replanted with any crop specified on an imidacloprid label, or with any crop for which a tolerance exists for the active ingredient.
- For crops not listed on an imidacloprid label, or for crops for which no tolerances for the active ingredient have been established, a 12 month plant-back interval is required.

SOIL INJECTION AND DRENCH APPLICATIONS FOR NURSERY, GREENHOUSE AND INTERIORSCAPE PLANTS				
Adelgids	Eucalyptus longhorned borers	Leaf beetles (including elm and viburnum leaf beetles)	Pine tip moth larvae	Soft scales
Aphids	Flatheaded borers (including bronze birch, emerald ash, and alder borers)	Leafhoppers (including glassy-winged sharpshooter)	Psyllids	Thrips (suppression)
Armored scales (suppression)	Japanese beetles (adults)	Leafminers	Royal palm bugs	White grub larvae
Black vine weevil larvae	Lacebugs	Mealybugs	Sawfly larvae	Whiteflies
<b>Trees</b>	1 packet (20 grams) per 8 to 16 inches of cumulative trunk diameter			
<p><b>Soil Injection:</b> GRID SYSTEM: Holes should be spaced on 2.5 foot centers, in a grid pattern, extending to the drip line of the tree. CIRCLE SYSTEM: Apply in holes evenly spaced in circles, (use more than one circle dependent upon the size of the tree) beneath the drip line of the tree extending in from that line. BASAL SYSTEM: Space injection holes evenly around the base of the tree trunk no more than 6 to 12 inches out from the base.</p> <p>Mix required dosage in sufficient water to inject an equal amount of solution in each hole. Maintain a low pressure and use sufficient solution for distribution of the liquid into the treatment zone. For optimum control, keep the treated area moist for 7 to 10 days. Do not use less than 4 holes per tree.</p> <p><b>No Soil Injection Application Allowed in Nassau or Suffolk Counties of New York.</b></p> <p><b>Soil Drench:</b> Uniformly apply the dosage in no less than 10 gallons of water per 1000 square feet as a drench around the base of the tree, directed to the root zone. Remove plastic or any other barrier that will stop solution from reaching the root zone.</p> <p><b>For Control of Specified Borers:</b> Application to trees already heavily infested may not prevent the eventual loss of the trees due to existing pest damage and tree stress.</p>				
<b>Shrubs</b>	1 packet (20 grams) per 8 to 16 feet of cumulative shrub height			
<p><b>Soil Injection:</b> Apply to individual plants using dosage indicated.</p> <p>Mix required dosage in sufficient water to inject an equal amount of solution in each hole. Maintain a low pressure and use sufficient solution for distribution of the liquid into the treatment zone. Keep the treated area moist for 7 to 10 days. Do not use less than 4 holes per shrub.</p> <p><b>No Soil Injection Application Allowed in Nassau or Suffolk Counties of New York.</b></p> <p><b>Soil Drench:</b> Uniformly apply the dosage in no less than 10 gallons of water per 1000 square feet as a drench around the base of the tree, directed to the root zone. Remove plastic or any other barrier that will stop solution from reaching the root zone.</p>				
<b>Flowers and Ground Covers</b>	1 packet (20 grams) per 3000 sq. ft.			
Apply as a broadcast treatment and incorporate into the soil before planting or apply after plants are established. If application is made to established plants, optimum control will be attained if area is irrigated thoroughly after application				

**MERIT 60 WSP - Ebb & Flood Application**

MERIT 60 WSP Greenhouse and Nursery Insecticide may be applied through Ebb and Flood applications. To assure accurate uptake prior to treatment, bring a minimum of 10 plants up to a known field capacity and allowed to dry out for one or two days. Re-wet these plant to determine how much water on average each plant will absorb to bring it back at field capacity. Use the volume absorbed per plant (keeping pot sizes uniform) multiplied by the number of pots being treated. Add to this volume a required minimum to flood your smallest treatment area. This should minimize the return back to the storage tank. Re-use the returned volume with subsequent irrigation or nutrients on the same plants.

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**IERIT 60 WSP EBB & FLOOD APPLICATION**

Adelgids	Japanese beetles (adults)	Leafminers	Root mealybugs <sup>2</sup>	Thrips (suppression) <sup>4</sup>
Aphids	Lacebugs	Mealybugs	Root weevil complex: (such as Apopka weevil, Black vine weevil, Citrus Root weevil <sup>3</sup> )	Whiteflies
Armored scales (suppression)	Leaf beetles (including elm and viburnum leaf beetles)	Psyllids	Soft scales	White grub larvae (such as Japanese beetle, masked chafers, European chafer, Oriental beetle, Asiatic garden beetle)
Fungus gnats (larvae only) <sup>1</sup>	Leafhoppers (including glassy-winged sharpshooter)			

Pot sizes (inches)	Number of pots treated with one packet	
	Herbaceous species including vegetable plants <sup>5</sup> (one or two plants per pot)	Woody perennials, herbaceous species including vegetable plants <sup>5</sup> (3 or more per pot)
2	3000	2000
3	2000	1350
4	1500	1000
5	1200	800
6	1000	650
7	850	550
8	750	500
9	675	450
10	600	400
11	550	350
12	500	300

<sup>1</sup> **Fungus gnat larvae** in the soil will be controlled by drench or incorporation. **No adult Fungus gnat control.** Other foliar insect control is achieved by the uptake of MERIT 60 WSP from a healthy root system translocating the active ingredient up into the plant.

<sup>2</sup> **Root mealybug** control will require a thorough drenching of containerized media. Coverage is essential for control while minimizing the amount of leachate. Rate: 1.7 fl oz (50 mL) in 150 gallons of water.

<sup>3</sup> **Citrus root weevil:** For use on non-bearing citrus nursery stock.

<sup>4</sup> **Thrips** suppression on foliage only. Thrips in buds and flowers will not be suppressed.

<sup>5</sup> For use only on the following vegetable plants (intended for transplant resale): Broccoli, Chinese Broccoli, Broccoli Raab, Brussels Sprouts, Cabbage, Chinese Cabbage, Cauliflower, Collards, Eggplant, Ground Cherry, Kale, Kohlrabi, Lettuce, Mustard Greens, Pepinos, Peppers, Potatoes, Rape Greens, Sorghum, Sugarbeets, Tomatillo, and Tomato.

**IMPORTANT: READ BEFORE USE**

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