MERIT® 0.5 G INSECTICIDE

For systemic control in turfgrass and landscape ornamentals.

ACTIVE INGREDIENT: active ingredient .......................... 0.5%
OTHER INGREDIENTS: ........................................... 99.5%

NOTICE:

This chemical demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are likely to contribute to the vulnerability of groundwaters should be avoided.

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-tide line.

This chemical is highly toxic to aquatic life. Avoid chemical contact with waterways or areas where water could collect.

Do not use in or around areas where there are large numbers of aquatic invertebrates or other aquatic life. Avoid applying this chemical to areas where it may enter surface waters, septic systems, or groundwaters.

No specific antidote is available. Treat the patient symptomatically.

When calling a poison control center or doctor, or going for treatment, give the following information to the medical professional:

• Do not give anything by mouth to an unconscious person.
• Have person sip a glass of water if able to swallow.

This product is slightly toxic by inhalation and skin contact. Avoid contact with eyes, skin, clothing and equipment. Wash hands after handling.

• Wash all exposed skin with soap and water.
• If inhaled, move the person to fresh air immediately to prevent dizziness. If breathing is difficult, give artificial respiration.

If you are unable to determine whether this chemical is hazardous, do not use this product until the label has been fully explained to you.

STOP – READ THE LABEL BEFORE USE

APPLICATION RATES

The following chart can be used as a guide in establishing an accurate rate of MERIT 0.5 G Insecticide. Application rates will vary depending upon speed, equipment wear and condition of spreader. Carefully follow the product label for application rates. For golf courses, use the table for recommendations:

<table>
<thead>
<tr>
<th>CROP PEST DOSAGE</th>
<th>MERIT 0.5 G</th>
</tr>
</thead>
<tbody>
<tr>
<td>White grub larvae</td>
<td>1.4 to 1.8 lb</td>
</tr>
<tr>
<td>Asparagus beetle</td>
<td>1.8 lb/1000 sq ft</td>
</tr>
<tr>
<td>Asian garden beetle</td>
<td>1.8 lb/1000 sq ft</td>
</tr>
<tr>
<td>Larvae of:</td>
<td></td>
</tr>
<tr>
<td>C. lurida</td>
<td>60 lb/A or 80 lb per acre</td>
</tr>
<tr>
<td>L. serricorne</td>
<td>60 to 80 lb per acre</td>
</tr>
</tbody>
</table>

Insecticide

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 must be observed.

Note:

Do not apply this product, by any application method, to linden, basswood or other Tilia species.

PESTICIDE DISPOSAL:

Contact local authorities for disposal instructions. It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not dispose of empty containers in the location or manner prescribed for pesticides. Refer to Precautionary Statements on label for hazards associated with the handling of this material. 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 Team may be reached at 1-800-858-1100.

DISCLAIMER OF WARRANTIES:

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. BAYER CROPSCIENCE MAKES NO CLAIMS OR PROMISES AS TO THE PERFORMANCE OF THIS PRODUCT.

CONDITIONS:

If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

LIMITATIONS OF LIABILITY:

BAYER CROPSCIENCE SHALL NOT BE LIABLE FOR ANY CONTROL FAILURE OR LOSS RESULTING FROM THE USE OF THIS PRODUCT. BAYER CROPSCIENCE ASSUMES NO RESPONSIBILITY FOR THE USE OF THIS PRODUCT AS INDICATED IN THE LABEL. BAYER CROPSCIENCE'S SOLE OBLIGATION IN THE EVENT OF LIABILITY IS TO SUPPLY ADDITIONAL PRODUCT FREE OF CHARGE OR TO REFUND THE PURCHASE PRICE.

APPLICATION EQUIPMENT:

Be sure to read “APPLICATION EQUIPMENT” Section of this label.

ELECTION, THE REPLACEMENT OF PRODUCT."

BACKED by BAYER.

30 lbs
SKU# 81001197

Produced for:

Research Triangle Park, NC 27709

Produced by:

Bayer CropScience, LLC

3500 Delaware Boulevard
Research Triangle Park, NC 27709

Part of the Bayer CropScience family of companies.

For more information, call 1-800-858-1100.

Important: Read Before Use

Note:

When filled

wrap under when filled

Note:

Bag is top filled

Final Seal position is not Known

Ensure copy is clear of top area.
ACTIVE INGREDIENT:

This chemical demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are high water mark. Do not contaminate water when disposing of equipment washwaters.

ENVIRONMENTAL HAZARDS

Harmful if swallowed or absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling.

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

No specific antidote is available. Treat the patient symptomatically.

When calling a poison control center or doctor, or going for treatment:

• Call a poison control center or doctor for treatment advice.
• Take off contaminated clothing.
• Do not induce vomiting unless told to do so by a poison control center or doctor.
• Have person sip a glass of water if able to swallow.

If swallowed:

• Keep person calm. Swallow 2-3 glasses of water if person is able to swallow. Never induce vomiting in children or people in whom vomiting will cause danger. Call a poison control center or doctor for treatment advice.

• If person is not breathing, give artificial respiration. Call a poison control center or doctor for treatment advice.

Insect population if Group 4A insecticides are used repeatedly as the predominant method of control for targeted species.

PARA EL USUARIO: Si usted no lee o entiende inglés, no use este producto hasta que le hayan explicado completamente las condiciones, disminuir garantías y limitaciones de responsabilidad.

APPLICATION INFORMATION

For optimum control of grubs, billbugs, European crane fly and annual bluegrass weevil, make application prior to egg hatch of the target pest.

Restrictions

- MERIT 0.5 G Insecticide can be used for the control of soil-inhabiting pests of turfgrass such as northern and southern masked chafers, Ataenius spretulus; black turfgrass ataenius, Listronotus maculicollis spp.; annual bluegrass weevil, May and June beetles, Green June beetle,

Resistance Management Recommendations

CAUTION

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product.

If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

IMPORTANT: READ BEFORE USE

Insectices may be used at 0.5 lb a.i. per acre, or equivalent, per year.

Spread, Settings For MERIT 0.5 G Insecticide

Refer to label sections on application equipment and spreader settings.

Pair systems, small area to large area, and for optimum control, northern and southern masked chafers, Asiatic garden beetle, Oriental beetle)

80 lb per acre or 1.8 lb/1000 sq ft

Note

The directions for use of this product are believed to be adequate and must be followed carefully. However, because of manner of use and other factors beyond Bayer CropScience LP's control it is impossible for Bayer CropScience LP to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

CONDITIONS:

The directions for use of this product are believed to be adequate and must be followed carefully. However, because of manner of use and other factors beyond Bayer CropScience LP's control it is possible to ensure the accuracy of this dieline.

Note

Real Plastic Products Ltd has done everything possible to ensure the accuracy of this dieline. It is your responsibility to check and confirm all dimensions and measurements before starting your project.
**MERIT 0.5 G INSECTICIDE**

**Backed by BAYER.**

**INSECTICIDE**

For systemic control in turfgrass and ornamental areas.

**ACTIVE INGREDIENT:**

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

**OTHER INGREDIENTS:**

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

**PRECAUTIONS:**

HaZARDs to humans and domestic animals

No specific antidote is available. Treat the patient symptomatically.

**NOTE TO PHYSICIAN:**

Call a poison control center or doctor for treatment advice.

• Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then

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

• Rinse skin immediately with plenty of water for 15 - 20 minutes.

Oral exposure:

• Do not give anything by mouth to an unconscious person.

**APPLICATION INFORMATION**

Apply MERIT 0.5 G Insecticide uniformly over the area being treated with normally used granular application equipment. Both drop-type and rotary-type spreaders may be used to apply MERIT 0.5 G Insecticide.

**APPLICATION RATES FOR USE ON TURFGRASS**

**Landscape Plantings**

**For optimum control of grubs, billbugs, European crane fly and annual bluegrass weevil, make application prior to egg hatch of the target pest.**

**Insecticide**

1.4 lb/1000 sq ft

**Application Rates**

<table>
<thead>
<tr>
<th>Spreader</th>
<th>Rate (lb/1000 sq ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scott's PF-1, PF-2, PF-3, PF-4 Drop</td>
<td>3 2.75 3.25</td>
</tr>
<tr>
<td>Spyker Model 34</td>
<td>3 3.1 3.3</td>
</tr>
<tr>
<td>Vicon Model PS-203</td>
<td>4.5 12 15</td>
</tr>
</tbody>
</table>

**APPLICATION RATES FOR USE ON ORNAMENTALS**

**Landscape Plantings**

**For optimum control of chinch bugs, make application prior to the hatching of the first instar nymphs.**

**Insecticide**

1.8 lb/1000 sq ft

**Application Rates**

<table>
<thead>
<tr>
<th>Spreader</th>
<th>Rate (lb/1000 sq ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scott's PF-1, PF-2, PF-3, PF-4 Drop</td>
<td>3 2.75 3.25</td>
</tr>
<tr>
<td>Spyker Model 34</td>
<td>3 3.1 3.3</td>
</tr>
<tr>
<td>Vicon Model PS-203</td>
<td>4.5 12 15</td>
</tr>
</tbody>
</table>

**PRODUCT INFORMATION**

**Stability:**

Stable under normal conditions of storage and transport.

**Compatibility:**

Compatibility in the presence of soap at the rate of 0.01% in water was demonstrated in laboratory tests.

**Toxicological Data:**

Acute oral toxicity in mammals was determined to be >100 mg/kg. An acute dermal toxicity study with rabbits exposed to MERIT 0.5 G Insecticide under reputed conditions indicates an LD50 >2000 mg/kg.

**STORAGE:**

Store in cool, dry, well-ventilated place.

**LABELING STATEMENTS:**

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

**DISCLAIMER OF WARRANTIES:**

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A

**APPLICATION INFORMATION**

**APPLICATION GENERAL**

Apply MERIT 0.5 G Insecticide uniformly over the area being treated with normally used granular application equipment. Both drop-type and rotary-type spreaders may be used to apply MERIT 0.5 G Insecticide. Do

**CONDITIONS FOR USE**

APPLICATION INFORMATION

Apply MERIT 0.5 G Insecticide uniformly over the area being treated with normally used granular application equipment. Both drop-type and rotary-type spreaders may be used to apply MERIT 0.5 G Insecticide. Do

**APPLICATION RATES FOR USE ON TURFGRASS**

**Landscape Plantings**

**For optimum control of grubs, billbugs, European crane fly and annual bluegrass weevil, make application prior to egg hatch of the target pest.**

**Insecticide**

1.4 lb/1000 sq ft

**Application Rates**

<table>
<thead>
<tr>
<th>Spreader</th>
<th>Rate (lb/1000 sq ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scott's PF-1, PF-2, PF-3, PF-4 Drop</td>
<td>3 2.75 3.25</td>
</tr>
<tr>
<td>Spyker Model 34</td>
<td>3 3.1 3.3</td>
</tr>
<tr>
<td>Vicon Model PS-203</td>
<td>4.5 12 15</td>
</tr>
</tbody>
</table>

**APPLICATION RATES FOR USE ON ORNAMENTALS**

**Landscape Plantings**

**For optimum control of chinch bugs, make application prior to the hatching of the first instar nymphs.**

**Insecticide**

1.8 lb/1000 sq ft

**Application Rates**

<table>
<thead>
<tr>
<th>Spreader</th>
<th>Rate (lb/1000 sq ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scott's PF-1, PF-2, PF-3, PF-4 Drop</td>
<td>3 2.75 3.25</td>
</tr>
<tr>
<td>Spyker Model 34</td>
<td>3 3.1 3.3</td>
</tr>
<tr>
<td>Vicon Model PS-203</td>
<td>4.5 12 15</td>
</tr>
</tbody>
</table>

**PRODUCT INFORMATION**

**Stability:**

Stable under normal conditions of storage and transport.

**Compatibility:**

Compatibility in the presence of soap at the rate of 0.01% in water was demonstrated in laboratory tests.

**Toxicological Data:**

Acute oral toxicity in mammals was determined to be >100 mg/kg. An acute dermal toxicity study with rabbits exposed to MERIT 0.5 G Insecticide under reputed conditions indicates an LD50 >2000 mg/kg.
MERIT® 0.5 G
INSECTICIDE
For systemic, broad-spectrum control of turfgrass and ornamental pests.

ACTIVE INGREDIENTS
Imidacloprid (p-oxyphenylpyridinium, dichloromethane) .5% OTHER INGREDIENTS

NMC

SPLC Reg. No. 102-052

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

CAUTION

CAUTION

DO NOT MIX WITH OR ADD OTHER INSECTICIDES OR CHEMICALS WITHOUT PRIOR AUTHORIZATION.

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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. See the back of this label for additional emergency information.

FIRST AID

If swallowed: Give 2 cups of water or other liquid. Do not induce vomiting. Call doctor immediately.

If in eyes: Remove contact lenses if present and easily done. Wash out eyes with plenty of water. Call doctor immediately.

Inhalation: Move to fresh air. Call doctor immediately.

If on skin: Wash with soap and water. Call doctor immediately.

For MEDICAL and TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577

HAZARDS TO OTHER SPECIES

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 of tidal action.

NOTE:

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 recommendations.

RESISTANCE MANAGEMENT RECOMMENDATIONS

Research over the past several years has indicated that the use of systemic insecticides is not raising the incidence of resistance to these products. However, the misuse of chemicals (whether in- or outdoor) can result in the development of resistance. Therefore, it is very important to use systemic insecticides in accordance with the label directions and to follow the recommended resistance management practices. Follow the directions for use summarized below:

1. Follow the label directions for use carefully. Improper use of products may lead to resistance.

2. Use a single active ingredient. Do not use two or more systemic chemicals in the same application.

3. Use low application rates.

4. Use rotational or sequential application of chemicals to control pests. Use chemicals with different modes of action (e.g., organophosphates and carbamates) instead of pesticides with the same or similar modes of action.

5. Do not use the same product on the same host plant species more than once in the same season.

6. Use only labeled crops.

If resistance should be suspected, resistance management practices should be used as soon as possible.

APPLICATION INFORMATION

The active ingredient in MERIT 0.5 G 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 followed by sufficient mechanical incorporation, irrigation, or rainfall to move the active ingredient into the soil. Make application prior to flowering, fruiting, or seed production of target pests.

APPLICATION TO TURFGRASS

MERIT 0.5 G Insecticide can be used as directed on turfgrass in sites such as home lawns, business and office complexes, shopping complexes, multi-family residential complexes, golf courses, airports, cemeteries, and others. MERIT 0.5 G Insecticide can be used to control the following pests in turfgrass:

Listronotus maculicollis—spotted billbug; annual bluegrass weevil, Anomala orientalis; May and June beetles, European chafer, C. immaculate—white grub larvae; Asiatic garden beetle, C. lurida—tipula spp.; crane flies, Blissus spp.; black turfgrass ataenius—European crane fly

NOTE:

Do not apply this product, by any application method, to linden, basswood or other Tilia species.

NOTE:

For optimum control mechanical incorporation, irrigation or rainfall should occur within 24 hours after application to move the active ingredient into soil. Avoid runoff or puddling of irrigation water 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 Team can be reached by calling 1-800-334-7577.

APPLICATION RATES FOR USE ON TURFGRASS

The following chart can be used as a guide in establishing an accurate rate of MERIT 0.5 G Insecticide. Application rates will vary depending upon speed, equipment wear and condition of spreader. Carefully read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of liability before using this product.

CROP PEST DOSAGE MERIT 0.5 G

The following is a list of crops and pests for which this product has been labeled.

<table>
<thead>
<tr>
<th>CROP</th>
<th>DOSAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black turfgrass ataenius</td>
<td>60 lb/A or 60 lb/1000 sq ft</td>
</tr>
<tr>
<td>Billbugs</td>
<td>80 lb per acre or 80 lb per 1000 sq ft</td>
</tr>
<tr>
<td>Asiatic garden beetle</td>
<td>60 lb/A or 60 lb/1000 sq ft</td>
</tr>
<tr>
<td>White grub larvae</td>
<td>60 lb/A or 60 lb/1000 sq ft</td>
</tr>
<tr>
<td>European crane fly</td>
<td>60 lb/A or 60 lb/1000 sq ft</td>
</tr>
</tbody>
</table>

NOTE:

For optimum control mechanical incorporation, irrigation or rainfall should occur within 24 hours after application to move the active ingredient into soil. Avoid runoff or puddling of irrigation water 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 Team can be reached by calling 1-800-334-7577.

APPLICATION RATES FOR USE ON ORNAMENTALS

The following chart can be used as a guide in establishing an accurate rate of MERIT 0.5 G Insecticide. Application rates will vary depending upon speed, equipment wear and condition of spreader. Carefully read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of liability before using this product.

CROP PEST DOSAGE MERIT 0.5 G

The following is a list of crops and pests for which this product has been labeled.

<table>
<thead>
<tr>
<th>CROP</th>
<th>DOSAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black turfgrass ataenius</td>
<td>60 lb/A or 60 lb/1000 sq ft</td>
</tr>
<tr>
<td>Billbugs</td>
<td>80 lb per acre or 80 lb per 1000 sq ft</td>
</tr>
<tr>
<td>Asiatic garden beetle</td>
<td>60 lb/A or 60 lb/1000 sq ft</td>
</tr>
<tr>
<td>White grub larvae</td>
<td>60 lb/A or 60 lb/1000 sq ft</td>
</tr>
<tr>
<td>European crane fly</td>
<td>60 lb/A or 60 lb/1000 sq ft</td>
</tr>
</tbody>
</table>

NOTE:

For optimum control mechanical incorporation, irrigation or rainfall should occur within 24 hours after application to move the active ingredient into soil. Avoid runoff or puddling of irrigation water 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 Team can be reached by calling 1-800-334-7577.