

Surrender® brand

# GrubZ Out

**Systemic insecticide for use on turfgrass and landscape ornamentals**

- For Control of Grubs and listed insects
- 10 lbs. treats up to 8,300 sq. ft.
- Controls Mole Crickets and the larvae of Billbugs and Japanese Beetles
- Apply Once a Year

**ACTIVE INGREDIENT:**

Imidacloprid: 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine..... 0.5%

**OTHER INGREDIENTS:**..... 99.5%

**TOTAL:** ..... 100.0%

## KEEP OUT OF REACH OF CHILDREN CAUTION

*(See back panel for First Aid, Precautionary Statements and Directions for Use)*

<b>FIRST AID</b>	
<b>If swallowed:</b>	<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 the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</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 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>HOT LINE 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 SafetyCall® International (866) 897-8050 for emergency medical treatment information.	
<b>NOTE TO PHYSICIAN</b>	
No specific antidote is available. Treat the patient symptomatically.	

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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.

**EPA Reg. No. 81959-18-53883**

**EPA Est. No. 44616-MO-1**

**Manufactured for:**  
Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507-1041

GrubZ Out contains imidacloprid, the active ingredient used in Merit®.

**Net Weight:**

### 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 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.

### GENERAL INFORMATION

GrubZ Out will control insects on turf and ornamentals grown in residential landscapes. GrubZ Out is a systemic insecticide applied as a soil treatment **only** and is translocated upward within the plant. For best results, GrubZ Out must be applied where the roots of the target plants can absorb the active ingredient. After application, irrigate moderately but thoroughly being sure to avoid leaching and runoff from the container for at least three irrigations or 10 days whichever is longer.

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 should be observed.

#### GrubZ Out General Use Precautions:

- Do NOT apply more than 80 lbs. (0.4 lb. of active ingredient) per acre per year.
- Following application, avoid runoff or puddling of irrigation water.
- Avoid application of GrubZ Out to areas which are waterlogged or saturated, which will not allow penetration into the root zone of the plant.
- Prior to commercial use of this product, be sure to carefully calibrate application equipment.

#### Application Equipment

Using either drop-type or rotary-type spreaders, apply GrubZ Out uniformly over the area being treated. Avoid the use of spreaders that apply the material in narrow, concentrated bands. Use the following chart as a guide for establishing an accurate application rate of GrubZ Out. Rates will vary depending on speed, equipment wear and condition of spreader. Calibrate application equipment according to the manufacturer's directions prior to use and check frequently to be sure the equipment is working properly and distributing granules uniformly and accurately.

Drop Spreaders		Rotary Spreaders	
Ames	12	Ames	12
Earthway Model 73008	12	Earthway	12
Precision Red Devil	3	Precision Red Devil	3
Scotts Accugreen AG-3	7	Cyclone SB3000	5.5
Scotts EvenGreen EV-1	6	Scotts EasyGreen EG-3	26
Scotts PrecisionGreen PF-4	5.5	Scotts Speedygreen SG-3	5

### APPLICATION TO TURFGRASS

**NOTE:** GrubZ Out may NOT be used on commercial sod farms or grass grown for seed.

GrubZ Out will control soil-inhabiting pests in turfgrass on home lawns.

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. Applications may be made preceding the egg laying activity of the target pests and high levels of control may be achieved when applications are made proceeding or during the egg laying period. Consult your local State Agricultural Experiment Station or State Extension Turf Specialist for more specific information regarding timing of application.

For best results, make applications prior to egg hatch of the target pests, followed by sufficient irrigation or rainfall to move the active ingredient through the thatch. The treated turf must be in such a condition that the rainfall or irrigation will penetrate vertically in the soil profile. On golf courses, irrigate treated areas following application.

**NOTE:** Avoid mowing lawn area until after irrigation or rainfall has occurred so that uniformity of application will not be affected.

RECOMMENDED RATES AND INSTRUCTIONS FOR TURF APPLICATIONS		
Pest	Application Rate	Specific Instructions
Larvae of: Annual bluegrass weevil Asiatic garden beetle Billbugs Black turfgrass atenius Cutworms (suppression) European chafer European Crane Fly Green June Beetle Japanese Beetle May or June beetle Northern masked chafer Oriental beetle Southern masked chafer	1.2 to 1.8 lbs. per 1,000 sq. ft.	Apply prior to egg hatch for optimum control of grubs, billbugs, European crane fly and annual bluegrass weevil.  Be sure to read the "Application Equipment" section of this label under "GENERAL INFORMATION" above.

Chinchbugs (suppression) Mole crickets	1.8 lbs. per 1,000 sq. ft.	Apply prior to the hatching of the first instar nymphs for suppression of chinchbugs. For control of mole crickets, apply prior to or during the peak egg hatch period. GrubZ Out applications should be accompanied by a curative insecticide when adults or large nymphs are present and actively tunneling.
---	----------------------------	---

**APPLICATION TO ORNAMENTALS**

**NOTE: GrubZ Out may NOT be used in commercial greenhouses or nurseries.**

GrubZ Out can be applied as a broadcast application on ornamentals intended for aesthetic purposes or climatic modification in residential landscapes such as interior plantscapes, ornamental gardens or lawns and grounds.

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. Applications may be made preceding the egg laying activity of the target pests and high levels of control may be achieved when applications are made proceeding or during the egg laying period. Consult your local State Agricultural Experiment Station or State Extension Turf Specialist for more specific information regarding timing of application.

<b>RECOMMENDED RATES AND INSTRUCTIONS FOR ORNAMENTAL APPLICATIONS</b>		
<b>Pest</b>	<b>Application Rate</b>	<b>Specific Instructions</b>
White Grub Larvae: (such as Japanese beetle larvae, Chafers, <i>Phyllophaga</i> spp., Asiatic garden beetle, Oriental beetle, etc.)	1.4 to 1.8 lbs. per 1,000 sq. ft.	Apply as a broadcast treatment. Prior to application, remove black plastic or other weed barrier material that will not permit water permeability.  For optimum control, mechanical incorporation, irrigation or rainfall should occur within 24 hours after application to move the active ingredient into soil.  Be sure to read the "Application Equipment" section of this label under "GENERAL INFORMATION" above.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store in a cool, dry place in original container and out of the reach of children, preferably in a locked storage area.

**PESTICIDE DISPOSAL:**

**If empty:** Do not reuse this container. Place in trash or offer for recycling, if available.

**If partly filled:** Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

**CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**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 should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Control Solutions, Inc. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Control Solutions, Inc. and Seller harmless for any claims relating to such factors.

Control Solutions, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Control Solutions, Inc., and Buyer and User assume the risk of any such use. CONTROL SOLUTIONS, INC. MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent allowed by state law, neither Control Solutions, Inc. or Seller shall be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF CONTROL SOLUTIONS, INC. AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF CONTROL SOLUTIONS, INC. OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

Control Solutions, Inc. and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of Control Solutions, Inc.

GrubZ Out is not manufactured or distributed by Bayer Environmental Science, seller of Merit®. Merit® is a trademark of Bayer.