

Zamzows Shield 90-Day Lawn Grub and Insect Control

# ZAMZOWS

# SHIELD

## 90-Day Lawn Grub and Insect Control



- For Control of Grubs & Listed Insects
- Apply Anytime Between Spring Throughout Summer
  - 10 Pounds Treats 7,000 Sq. Ft.

**ACTIVE INGREDIENTS:**

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

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

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

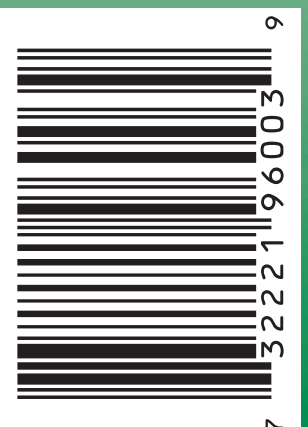
**–STOP–**

Read the Label Before Use.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**NET WEIGHT 10 LBS. (4.53 kg)**





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## 90-Day Lawn Grub and Insect Control

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** 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.

### FIRST AID

<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 a 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>

**In case of emergency call ChemTel**   
**North America 1-800-255-3924 or Worldwide Intl. + 01-813-248-0585.**  
 Have the 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.

### 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 or rinsate. Runoff may be hazardous to aquatic organisms in water adjacent treated areas.

This product contains a chemical with 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 formulate this product into other end-use products.  
**NOTE:** Not for use in commercial greenhouses, nurseries, on sod farms or on grass grown for seed. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior landscapes, ornamental gardens or parks, or on golf courses or lawns and grounds.

### TURFGRASS

**Zamzows Shield 90-Day Lawn Grub and Insect Control** is for use on turfgrass in home lawns, business and office complexes, shopping complexes, multi-family residential complexes, golf courses, airports, cemeteries, parks, playgrounds, and athletic fields to control soil inhabiting pests as listed in the table below. **Zamzows Shield 90-Day Lawn Grub and Insect Control** can also be used for the suppression of Cutworms and Chinch Bugs in turfgrass areas.

**APPLICATION INSTRUCTIONS**  
 Effective control can be achieved when applications are made before or during the egg laying period. The timing of applications can be based on historical monitoring of the site, previous records or experiences, current season adult trapping or other methods. For best control apply prior to egg hatch of the target pests, followed by sufficient irrigation or rainfall to move the active ingredient through the thatch.

**NOTE:** For optimum control, irrigation or rainfall should occur within 24 hours after application to move the active ingredient through the thatch. Do not make applications when turfgrass areas are waterlogged or the soil is saturated with water. Adequate distribution of the active ingredient cannot be achieved when these conditions exist. The area to be treated must be able to accept vertical penetration of rainfall or irrigation water. Avoid mowing turf or lawn area until after sufficient irrigation or rainfall has occurred so that uniformity of application will not be affected.

Do not apply more than 80 lb (0.4 lb of active ingredient) per acre per year.  
 Do not apply this product, by any application method, to Linden, Basswood or other *Tilia* species.

**APPLICATION EQUIPMENT**  
 Apply **Zamzows Shield 90-Day Lawn Grub and Insect Control** uniformly over the area being treated with granular application equipment. Both drop-type and rotary-type spreaders may be used. Do not use spreaders which apply the material in narrow, concentrated bands. Calibrate application equipment prior to use according to the manufacturer's directions. Check frequently to be sure equipment is working properly and distributing granules uniformly and accurately.

Consult your local State Agricultural Experiment Station or State Extension Turf Specialists for more specific information regarding timing of application.

### Recommended Applications of Zamzows Shield 90-Day Lawn Grub and Insect Control on Turfgrass

PEST	USE DIRECTIONS	RATE
<b>Larvae of:</b> European Crane Fly, ( <i>Tipula paludosa</i> ) Annual bluegrass weevil, ( <i>Hyperodes</i> spp.) Green June Beetle, ( <i>Cotinis nitida</i> ) May or June beetle, ( <i>Phyllophaga</i> spp.) Asiatic garden beetle, ( <i>Maladera castanea</i> ) Japanese Beetle, ( <i>Popillia japonica</i> ) Billbug, ( <i>Spherophorus</i> spp.) Northern masked chafer and Southern masked chafer, ( <i>Cyclocephala borealis</i> , <i>C. immaculata</i> , and/or <i>C. lurida</i> ) Black turfgrass ateniens, ( <i>Ataenius spretulus</i> and <i>Aphodius</i> spp.) Oriental Beetle, ( <i>Anomala orientalis</i> ) Cutworms (suppression), ( <i>Phyllophaga</i> spp.) European chafer, ( <i>Rhizotroqus majalis</i> )	For optimum control of grubs, billbugs, European Crane Fly and Annual Bluegrass Weevil, make application prior to egg hatch of the target pest.	60 to 80 lb per acre or 1.2 to 1.8 lb per 1000 sq ft
Chinchbug (suppression) Mole Crickets, ( <i>Scapteriscus</i> spp.)	For suppression of Chinchbugs, make application prior to hatching of the instar nymphs.  For control of Mole Crickets make application prior to or during the peak egg hatch period. When adults or large nymphs are present and actively tunneling, application should be accompanied by a curative insecticide.	80 lb per acre or 1.8 lb per 1000 sq ft

### ORNAMENTALS

**Zamzows Shield 90-Day Lawn Grub and Insect Control** can be used as a broadcast application on ornamentals in commercial and residential landscapes.

**APPLICATION INSTRUCTIONS**  
**Zamzows Shield 90-Day Lawn Grub and Insect Control** is a systemic product which is translocated upward within the plant system. For best control, follow applications with sufficient mechanical incorporation, irrigation or rainfall to move the active ingredient into the soil. Irrigation or rainfall should occur within 24 hours after application. Apply prior to pest infestation to achieve optimum control.

Apply as a broadcast treatment. Prior to application, remove black plastic or other weed barrier material that will not permit water permeability.

**NOTE:** Avoid runoff or puddling of irrigation water following application. Avoid application of **Zamzows Shield 90-Day Lawn Grub and Insect Control** to areas which are water logged or saturated, which will not allow penetration into the root zone of the plant.

Do not apply more than 80 lb (0.4 lb of active ingredient) per acre per year.  
 Do not apply this product, by any application method, to Linden, Basswood or other *Tilia* species.

**APPLICATION EQUIPMENT**  
 Apply **Zamzows Shield 90-Day Lawn Grub and Insect Control** uniformly over the area being treated with granular application equipment. Both drop-type and rotary-type spreaders may be used to apply **Zamzows Shield 90-Day Lawn Grub and Insect Control**. Do not use the type of spreaders which would apply the material in narrow, concentrated bands. Calibrate application equipment prior to use according to the manufacturer's directions. Check frequently to be sure equipment is working properly and distributing granules uniformly and accurately.

### Application of Zamzows Shield 90-Day Lawn Grub and Insect Control on Ornamentals

For use only in and around industrial and commercial buildings and residential areas.

CROP	PEST	RATE
Landscape Plantings (including trees, shrubs evergreens, flowers, foliage plants, and ground covers)	White Grub Larvae (such as Japanese Beetle Larvae, Chafers, <i>Phyllophaga</i> spp. Asiatic Garden Beetle, Oriental Beetle)	1.2 to 1.8 lb per 1000 sq ft

### Spreader Settings

The following chart can be used as a guide in establishing an accurate rate of this product. Application rates will vary depending upon speed, equipment wear and condition of spreader. Carefully calibrate application equipment prior to commercial use of this product.

SPREADER	SPEED (mph)	SETTINGS	
		1.2 lb. per 1,000 sq. ft.	1.8 lb. per 1,000 sq. ft.
Scotts® Republic Accugreen (Drop)	3	2	2 ¼
Scotts®/Republic Speedy Green (Broadcast)	3	2 ¼	2 ½
ferti•lome®/Earthway Ev-N-Spred (Broadcast)	3	11	12

**RESTRICTIONS**  
 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.

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.  
**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.  
 Carefully handle the container to prevent spills. If material is spilled, carefully contain any material to prevent non-target contamination. Do not walk through spilled material and dispose of as directed for pesticides below.  
**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:**  
**If empty:** Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Do not rinse unless required for recycling. If recycling is not available: then dispose of container in a sanitary landfill or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. **If partly filled:** Call your local solid waste agency for disposal instructions. Never pour unused product down any indoor or outdoor drain.

### IMPORTANT: READ BEFORE USE

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.

**CONDITIONS:** The directions for use of this product are believed to be adequate and should be followed carefully. However, because of manner of use and other factors beyond Voluntary Purchasing Groups, Inc. control it is impossible for Voluntary Purchasing Groups, Inc. 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.

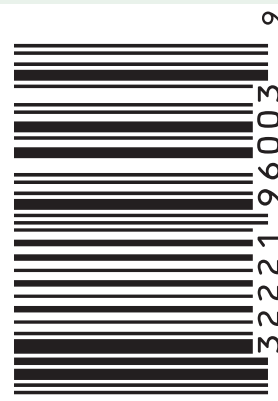
### WARRANTY STATEMENT

Voluntary Purchasing Groups, Inc. warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Voluntary Purchasing Groups, Inc. To the extent consistent by law, Voluntary Purchasing Groups, Inc. shall in no event be liable for consequential, special, or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. In addition to the foregoing, no purchaser of this product (other than an end user) shall be entitled to any reimbursement for any loss suffered as a result of any suspension or cancellation of the registration for this product by the U.S. Environmental Protection Agency. Except, as expressly provided herein, Voluntary Purchasing Groups, Inc. makes no warranties, guarantees, or representations of any kind, either expressed or implied, or by usage of trade, statutory or otherwise, with regard to the product sold, including, but not limited to merchantability, fitness for a particular purpose, use or eligibility of the product for any particular trade usage. The exclusive remedy of any buyer or user of this product for any and all losses, injuries, or damage resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort, negligence, strict liability, or otherwise, shall be damages not exceeding the purchase price paid for this product or, at Voluntary Purchasing Groups, Inc.'s election, the replacement of this product.

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Produced By:  
**VOLUNTARY PURCHASING GROUPS, INC.**  
 230 FM 87  
 Bonham, TX 75418  
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