



# 21-0-4 FERTILIZER WITH GrubOut<sup>®</sup> INSECTICIDE

- Ideal for white grub control
- Contains essential plant nutrients to enhance recovery and resistance to destructive insect pests
- Controls early nymph stages of mole crickets

For use to control white grub larvae, mole crickets and other insect pests on any turfgrass site including residential lawns, golf courses and sod farms and in landscaped plantings, such as trees, in commercial and residential settings, golf courses, parks, recreational areas, and athletic fields.

<b>ACTIVE INGREDIENT</b>	
Imidacloprid†	0.2%
<b>Other ingredients</b>	99.8%
<b>Total</b>	100.0%

† CAS No. 138261-41-3  
EPA Reg. No. 9198-236  
EPA Est. No. 9198-OH-1M, 9198-OH-2B, 9198-AL-001A  
Underlined letter is first letter used in run code on bag

## KEEP OUT OF REACH OF CHILDREN CAUTION

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if swallowed or absorbed through the skin. Causes eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

### Personal Protective Equipment (PPE):

WPS Uses: The following Personal Protective Equipment requirements apply to uses covered under the Worker Protection Standard (40CFR Part 170), i.e. sod farm uses: Applicators and other handlers must wear:

- Protective eye 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, polyvinyl chloride (PVC) or viton. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.
- Shoes and socks

Non-WPS Uses: The following Personal Protective Equipment requirements apply to uses other than those covered by the WPS: Applicators and other handlers must wear:

- Long sleeved shirt and long pants
- Gloves
- Shoes and 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.

### User Safety Recommendations

Users 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.

FIRST AID	
If swallowed	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor 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 by a poison control center or doctor</li> <li>• Do not give anything by mouth to an unconscious person.</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 15-20 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 15-20 minutes. Remove contacts, if present, after the first 5 minutes, then continue rinsing</li> <li>• Call a poison control center or doctor for treatment advice</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 treatment advice</li> </ul>
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-757-8951 for emergency medical treatment information.	
<b>Note to Physician:</b> No specific antidote is available. Treat 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 cleaning equipment or 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.

READ ALL DIRECTIONS PRIOR TO APPLICATION OF THE PRODUCT

**Net Wt. 50 Lbs. (22.68 kg)**

## GUARANTEED ANALYSIS

Total Nitrogen (N)..... 21.00%  
 21.00% Urea Nitrogen\*  
 Soluble Potash (K<sub>2</sub>O).....4.00%

Derived from urea, potassium chloride

Chlorine (Cl) Max .....3.40%  
 \*10.5% urea nitrogen stabilized with N-[n-butyl] thiophosphoric triamide and dicyandiamide

### DIRECTIONS FOR USE

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

Not for use on container grown ornamentals.

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 Workers 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 use 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.

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
- Shoes plus socks

### General Information

This product controls subsurface feeding pests on any turfgrass site (lawns, sod, turf areas) such as, but not limited to: golf courses, residential and commercial lawns, grounds or lawns around business and office complexes, shopping centers, multi-family and residential apartment complexes, airports, military and other institutions, cemeteries, parks and picnic areas, playgrounds, schools, athletic fields, and sod farms. It also controls insect pests in landscaped areas in golf courses, commercial and residential settings, parks, recreational areas, and athletic fields.

### Application Timing

Treat prior to or during the egg laying activity and before the eggs hatch. Applications made prior to the pest infestation followed by adequate irrigation will result in the best control. Determine the need and timing of application by local site monitoring, prior history of pest infestation, current adult trappings or other methods. The regional differences in pest species pressure, timing for optimal control, pest monitoring methods and other particulars for your location will vary, so consult your cooperative extension service for details. To find your local extension agent, visit [www.csrees.usda.gov](http://www.csrees.usda.gov).

### Application Directions

Apply uniformly over the treatment area with either a broadcast or drop type spreader, avoiding spreaders which will apply product in narrow, concentrated bands. Apply only the specified amount in the following table. Calibrate the spreader before use and check periodically to ensure the equipment is working properly. Avoid overlaps that will increase rates above those recommended. Failure to follow the Directions for Use and all precautions may result in turf injury or poor pest control.

For best results, irrigate treated areas soon after application, enough to thoroughly wet the underlying soil; this washes the active ingredient down below the turf and thatch, and it encourages the subsurface pests to move upward in the soil profile where they will come in contact with the active ingredient. For best pest control and turf culture, minimize thatch buildup to no more than 0.5 in., using mechanical removal methods as needed.

Recent research has shown that well-maintained turf is an effective environmental buffer that prevents pollutants from entering our natural water bodies. To help protect these natural resources, please avoid applying product to sidewalks, driveways, roadways, and other impervious surfaces which are adjacent to storm drains. Sweep any misplaced granules back onto the area you are treating immediately after application, since storm drains often empty directly to nearby waterways.

### Application Rates - Turfgrass

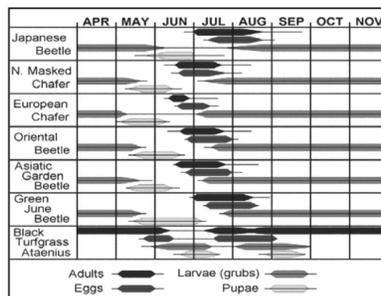
Pest	Amount of Product
White Grub Larvae, such as: Annual bluegrass weevil, ( <i>Hyperodes spp.</i> ) Aphodius, ( <i>Aphodius spp.</i> ) Asiatic garden beetle, ( <i>Melolontha castanea</i> ) Billbugs, ( <i>Sphenophorus spp.</i> ) Black turfgrass ateniinus, ( <i>Ataenius spretulus</i> ) European chafer, ( <i>Rhizotroqus majalis</i> ) Japanese beetle, ( <i>Popillia japonica</i> ) May or June beetles, ( <i>Phyllophaga spp.</i> ) Northern & Southern masked chafers, ( <i>Cyclocephala borealis</i> , <i>C. immaculata</i> , and/or <i>C. lurida</i> ) Oriental beetle, ( <i>Anomala orientalis</i> )	125 - 200 lb./acre or 3.0 - 4.5 lb./1,000 sq. ft.
Crane Fly, such as European species, ( <i>Tipula spp.</i> )	125 - 200 lb./acre or 3.0 - 4.5 lb./1,000 sq. ft.
Mole crickets, ( <i>Scapteriscus spp.</i> )	200 lb./acre or 4.5 lb./1,000 sq. ft.

**White grubs:** Ideal timing for preventative applications are made is the time of peak adult flight activity as determined by local site monitoring, or as recommended by local cooperative extension agents. This is also the primary egg laying period, which will yield the best results.

## Cool Season Turf Regions

The white grub life cycle chart for the cool season turf regions below illustrates application timing that will control many of the grub species when they are most vulnerable. During this period, adequate grub control can be obtained at 3.0 pounds per 1,000 sq. ft. in all but the most extreme situations (heavy thatch, heavy insect pressure) where the 4.5 lbs per 1,000 sq. ft. rate is necessary for adequate control.

Chart: Cool season white grub life cycle



(chart reprinted with permission of Dr. David Shetlar, Entomologist, Ohio State University, [www.bugdoc.edu](http://www.bugdoc.edu))

For best results, irrigate treated areas soon after application, enough to thoroughly wet the underlying soil. Use higher application rates in areas of heavy pressure and where thatch is present in excess of 0.5 in. thickness. Reduce thatch by mechanical means for best turf quality and better control of grub species.

**Crane Fly (such as European species):** Adults emerge from the soil to lay eggs from late August to mid-September. In areas with historic problems, an October treatment can be used to control this pest at this early, most vulnerable larval stage, which will avoid damage the following year. Otherwise, monitor turf areas in winter and early spring when there is a consistent warmer period, treating when the larvae are present. Discontinue monitoring and control measures in late April, because these pests pupate and stop feeding soon after that time.

### Mole Crickets

**Adults:** To control adult or large nymph mole crickets, this product should be used in conjunction with a curative insecticide, such as The Andersons Professional Turf Products 015G Prosect.

**Nymphs:** Grass areas that received intense adult mole cricket pressure in the spring should be treated 1 week before or no later than 2 weeks after peak egg hatch. Optimal control is achieved at this time because young nymphs are more susceptible to insecticides and they are located near the soil surface where the insecticide is most concentrated. Control of larger, more damaging nymphs later in the year may require more frequent applications to maintain acceptable control. Applications should be watered in with up to 0.5 inches of water immediately after treatment. If the soil is moist, then it is important to irrigate before application to bring the mole crickets closer to the soil surface where contact with the insecticide will be maximized.

### Application Rates - Ornamentals (including trees, shrubs, evergreens, flowers, foliage plants and ground covers)

Pest	Amount of Product
White Grub Larvae such as: Asiatic garden beetle, ( <i>Melolontha castanea</i> ) European chafer, ( <i>Rhizotroqus majalis</i> ) Japanese beetle, ( <i>Popillia japonica</i> ) Northern & Southern masked chafers, ( <i>Cyclocephala borealis</i> , <i>C. immaculata</i> , and/or <i>C. lurida</i> ) May or June beetles, ( <i>Phyllophaga spp.</i> ) Oriental beetle, ( <i>Anomala orientalis</i> )	125 - 200 lb./acre or 3.0 - 4.5 lb./1,000 sq. ft.

Before application, remove any weed barrier material that does not allow water permeability.

### General Use Precautions and Restrictions

Do not apply to saturated soils or waterlogged areas. The product cannot penetrate into the root zone of the plant in these conditions. Do not apply more than 200 lbs. of product per acre (0.4 lb. active ingredient per acre) per year. Do not mow turf until after the treatment area has received adequate irrigation or rainfall. Do not apply to vegetable gardens. Do not use on container grown ornamentals.

SPREADER	GROUND SPEED	WIDTH OF COVERAGE	SPREADER SETTINGS			
			LIGHT RATE 0.25 lbs. ai/A	LOW RATE 0.30 lbs. ai/A	MEDIUM RATE 0.35 lbs. ai/A	HIGH RATE 0.40 lbs. ai/A
Andersons 2000 series (cone 4); Andersons LO-1000	3 mph	10 feet	K 3/4	L 1/4	L 3/4	M 1/4
Scotts R-8, R-8A (cone 4)	3 mph	10 feet	K	K 1/4	K 3/4	L 1/4
LESCO 020093 (0.25)	3 mph	7 feet	D 3/4	E	E 1/4	E 1/2
LESCO 705698 (0.25)	3 mph	7 feet	11 1/2	12	12 1/2	13
Lely Models WTR, WFR, HR, 1250 (PTO at 450 rpm) Pattern II-c	4.5 mph	34 feet	5 1/4	5 1/2	5 3/4	6 1/4
Wicon (03 Series)	4.5 mph	29 feet	25	27	30	32

Note: These spreader settings were established using standard equipment available from the spreader manufacturer at swath widths and speeds typically used within the industry. It is recommended that all spreader equipment be calibrated at the time of application to achieve the desired application rate.

## Essential Plant Nutrient Table

Application Rate # product/1,000 sq. ft.	# N/1,000 sq. ft.	# P <sub>2</sub> O <sub>5</sub> /1,000 sq. ft.	# K <sub>2</sub> O/1,000 sq. ft.
3.0	0.63	0.00	0.12
3.5	0.74	0.00	0.14
4.0	0.84	0.00	0.16
4.5	0.95	0.00	0.18

**Note:** The plant nutrients in this product are provided for extra value as guaranteed and described in the fertilizer information section above. Due to the variety of plantings, cultural practices, weather and other factors, the user must determine the suitability of the use of this product at the rate used for each specific situation.

### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Keep out of reach of children and animals. Store in original container only. Store in cool, dry place and avoid excess heat.

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

**CONTAINER DISPOSAL:** Completely empty bag into application equipment. Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. If not available, then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

### IMPORTANT: READ BEFORE USE:

Read the entire Directions for Use and the Warranty Disclaimer and Limitation 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 Warranty Disclaimer and Limitation of Liability:

### WARRANTY DISCLAIMER and LIMITATION OF LIABILITY:

Manufacturer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions. Manufacturer makes NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. To the extent consistent with applicable law, it is Manufacturer's intent to LIMIT ANY LIABILITY FOR SPECIAL, CONSEQUENTIAL OR INCIDENTAL ECONOMIC DAMAGES to refund of purchase price or replacement of product, at Buyer's choice. To the extent consistent with applicable law, Manufacturer DISCLAIMS ANY LIABILITY FOR COMPENSATORY OR OTHER DAMAGES ARISING OUT OF ANY USE CONTRARY TO LABEL DIRECTIONS. Use contrary to label directions is not permitted.

**LEGAL RIGHTS:** THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS; YOU MAY HAVE OTHER RIGHTS THAT VARY FROM STATE/JURISDICTION TO STATE/JURISDICTION.

Manufactured by:  
**The Andersons, Inc.**  
 PO Box 119, Maumee, OH 43537  
 AndersonsPro.com

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