

# 18-0-12 Fertilizer with 0.067% GrubOut® XL

• 80% of total nitrogen is from MUTECH®

For systemic control of white grubs and other pests infesting landscape and recreational turfgrass, golf courses, landscape ornamentals, interior plantscapes and sod farms.

Not for sale, sale into, distribution and/or use in Nassau, Suffolk, Kings, Queens Counties of New York State.

|  |          |
|--|----------|
| <b>Active Ingredient</b>   |          |
| Chlorantraniliprole*   |          |
| 3-Bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-1H-pyrazole-5-carboxamide ..... | 0.067%   |
| <b>Other Ingredients</b> .....   | 99.933%  |
| <b>TOTAL</b> .....   | 100.000% |

EPA Reg. No. 9198-247  
 EPA Est. No. 9198-OH-1M, 9198-AL-001A  
 Underlined letter is first letter used in run code on bag

\*Chlorantraniliprole belongs to the anthranilic diamide chemical class.

| Guaranteed Analysis                     |        |
|---|--------|
| Total Nitrogen (N).....                 | 18.00% |
| 5.76% Urea Nitrogen                     |        |
| 5.04% Water Insoluble Nitrogen          |        |
| 7.20% Other Water Soluble Nitrogen      |        |
| Soluble Potash (K <sub>2</sub> O) ..... | 12.00% |
| Sulfur (S) .....                        | 4.00%  |
| 4.00% Combined Sulfur                   |        |

Derived from urea, methylene ureas, and potassium sulfate.

\*7.20% slowly available nitrogen from methylene ureas

**F002091**

Information regarding the contents and levels of metals in this product is available on the internet at <https://www.aapfco.org/metals.html>

**Florida Applications:**

We recommend that you follow the Florida Green Industries BMP's at: <http://www.flrules.org/Gateway/reference.asp?No=Ref-04706>

We recommend that you follow the Florida Golf Course BMP's at: <http://www.flrules.org/Gateway/reference.asp?No=Ref-04702>

**Nitrogen Notice:** For those states with nitrogen application restrictions, including but not limited to MD, NH, NJ, PA and VA, do not apply more the 0.9 lbs. of nitrogen per 1,000 sq.ft.

## KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

**FIRST AID**

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Have the container or label with you when calling a poison center or doctor, or going for treatment. You may also contact 1-800-757-8951 for emergency medical treatment information.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION!** Causes moderate eye irritation. Avoid contact with eyes or clothing.

**PERSONAL PROTECTIVE EQUIPMENT**

Applicators and other handlers must wear: Long-sleeved shirt and long pants. Shoes plus socks. After the product has been loaded into properly calibrated application equipment, shirt, pants, socks, and shoes are sufficient Personal Protective Equipment. Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables are available, 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.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to aquatic invertebrates, oysters and shrimp. Do not apply directly to water. Drift and runoff may be hazardous to aquatic organisms in water adjacent to use sites.

**Surface Water Advisory:** This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having a high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of chlorantraniliprole from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

**Ground Water Advisory:** This chemical has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

**DIRECTIONS FOR USE**

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

Read and understand the entire label before using this product.

|   |  |  |  |
|---|--|--|--|
| <b>AGRICULTURAL USE REQUIREMENTS</b>  |  |  |  |
| 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 the label about personal protective equipment, restricted-entry interval, and notification to workers (as applicable). 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 State or Tribal agency responsible for pesticide regulation.  |  |  |  |
| Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours.  |  |  |  |
| For early entry into 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, wear:  |  |  |  |
| <ul style="list-style-type: none"> <li>• Long-sleeved shirt and long pants</li> <li>• Shoes plus socks</li> </ul>   |  |  |  |

|   |  |  |  |
|---|--|--|--|
| <b>NON-AGRICULTURAL USE REQUIREMENTS</b>  |  |  |  |
| The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides, 40 CFR part 170. The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. |  |  |  |
| Professional applications to golf courses, residential, industrial and commercial lawns and sports fields are not within the scope of the Worker Protection Standard.   |  |  |  |
| Do not allow other workers to enter the treated area while application is in progress.  |  |  |  |

**PRODUCT INFORMATION**

This product may be applied for the control of white grubs and other listed pests infesting landscape and recreational turfgrass, golf courses, landscape ornamentals and interior plantscapes.

This product may be used on plants or turfgrasses that are being grown for aesthetic or recreational purposes or climatic modification in or around home lawns, commercial lawns, industrial facilities, residential dwellings, business and office complexes, shopping complexes, multi-family residential complexes, institutional buildings, airports, cemeteries, interior plantscapes, ornamental gardens, parks, wildlife plantings, playgrounds, schools, day-care facilities, golf courses (tee box areas, roughs, fairways, greens, collars etc.), athletic fields, sod farms and other landscaped areas.

This product must not be applied when the soil is saturated with water because adequate distribution of the active ingredient vertically in the soil profile cannot be achieved under this condition.

This product is in GROUP 28 of the EPA's Insecticide and Acaricide Groups Based on Target Site of Action (EPA PR Notice 2001-5) and may be used in rotational resistance management programs.

Due to pest activity differences, consult your local cooperative extension service for guidance. To find your local extension agent, visit [www.csrees.usda.gov](http://www.csrees.usda.gov).

**APPLICATION EQUIPMENT**

Apply this product using drop-type, rotary-type or hand-held application equipment. The application equipment must be properly calibrated according to the manufacturer's directions to ensure uniform coverage over the treated area. During application, the equipment must be checked periodically to confirm that it is working properly and that the granules are being uniformly distributed.

**APPLICATION TIMING**

**White Grubs:** Apply this product from early April to early September for preventative and early curative control all of the major white grub species infesting turfgrass. The need for an application may be based on historical monitoring of the site, previous records or experiences, current season adult trapping or other methods. The higher rate listed for white grub control in Table 1 may be required in late August or early September when less sensitive mid-instar grubs are present at the time of application. Irrigate turf immediately after application or allow rainfall to move the product into the soil.

**Annual Bluegrass Weevil:** Apply this product in late April or early May, when over wintered adult annual bluegrass weevils are observed, to prevent damage from first generation larvae in late May and June. An application of this product at this time will also provide white grub control. The higher rates listed in Table 1 may be required for applications made after mid May.

**Billbugs:** Apply this product when over-wintered adult billbugs are first observed. This will usually occur in late April or early May in regions with cool-season turfgrasses. An application of this product at this time will also provide white grub control. The higher rates listed in Table 1 may be required for applications made after early May or when billbug species other than bluegrass billbug are present.

**European Crane Fly:** Apply this product between September and November to control European Crane Fly larvae in turfgrass. The higher rate listed in Table 1 may be required to achieve control when applications are made in November.

**Turf Caterpillars:** This product will provide curative caterpillar control in turfgrass. If the area being treated is maintained at a mowing height of greater than one inch, then the higher rate listed in Table 1 may be required during periods of high pest pressure.

**Chinch Bugs:** For suppression of chinch bugs, apply this product before eggs hatch.

**APPLICATION RATES FOR LAWNS, GOLF COURSES AND OTHER RECREATIONAL TURFGRASS AREAS**

Table 1 provides the application rates that will control the listed turfgrass pests. For maximum residual effectiveness or for optimal control of large pest infestations, apply this product at up to 500 pounds per acre (0.33 lb Al/A) to control any of the pests listed in Table 1. Restriction: Do not apply more than 750 pounds (equivalent to 0.5 lb of active ingredient) of product per acre per year in broadcast applications to turfgrass.

**TABLE 1: TURFGRASS APPLICATION RATES**

| Target Pest  | Product per Acre  | Product per 1,000 sq. ft. | lb Al/A     |
|--|-------------------|---------------------------|-------------|
| White Grubs (including <i>Aphodius</i> spp., Asiatic garden beetle, black turfgrass ateniens, European chafer, green June beetle, Japanese beetle, May/June beetles, ( <i>Phyllophaga</i> spp.), northern masked chafer, oriental beetle and southern masked chafer) | 150 to 300 pounds | 3.44 to 6.88 pounds       | 0.1 to 0.2  |
| Billbugs<br>European Crane Fly<br>Turf caterpillars (including armyworms, cutworms and sod webworms)   |                   |                           |             |
| Annual bluegrass weevil  | 225 to 300 pounds | 5.17 to 6.88 pounds       | 0.15 to 0.2 |
| Chinch bugs (suppression only)   | 150 to 300 pounds | 3.44 to 6.88 pounds       | 0.1 to 0.2  |

**APPLICATION RATES FOR ORNAMENTAL PLANTS**

Table 2 provides the application rates that will control the pests of landscape ornamentals and interior plant-scapes. Black plastic or other weed barrier materials that are impermeable to water should be removed before application. For maximum residual effectiveness or for optimal control of large pest infestations, this product may be applied at up to 500 pounds per acre (0.33 lb Al/A) to control any of the pests listed in Table 2.

**TABLE 2: ORNAMENTAL TREE AND SHRUB (INCLUDING EVERGREENS), FLOWER, FOLIAGE PLANT, AND GROUND COVER APPLICATION RATES**

| Target Pest   | Product per Acre | Product per 1,000 sq. ft. | lb Al/A    |
|---|------------------|---------------------------|------------|
| White Grubs (Asiatic garden beetle, European chafer, green June beetle, Japanese beetle, May/June beetles ( <i>Phyllophaga</i> spp.), northern masked chafer, oriental beetle and southern masked chafer) | 150-300 pounds   | 3.44 to 6.88 pounds       | 0.1 to 0.2 |

**RESISTANCE MANAGEMENT**

Some insects are known to develop resistance to products used repeatedly for control. When this occurs, the recommended dosages fail to suppress the pest population below threshold levels. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. These strategies may include incorporation of cultural and biological control practices, alternation of active classes of insecticides on succeeding generations and targeting the most susceptible life stage. Consult your local Cooperative Extension Service specialist or pest control advisor for the latest information on resistance management in your area.

**RESTRICTIONS**

• Not for use on plants being grown for sale or other commercial use, or for commercial seed production.

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

• Do not apply this product in commercial nurseries and greenhouses.

• Do not apply more than 750 pounds (equivalent to 0.5 lb of active ingredient) of product per acre per year in broadcast applications to turfgrass.

• Do not apply more than 300 pounds (equivalent to 0.2 lb of active ingredient) of product per acre in a single application on sod farms.

• Wait a minimum of 7 days to retreat.

• Do not apply by air.

• The following restrictions are required to permit use of this product in the State of New York: Golf Courses:

Greens, tee boxes: Do not apply this product within 25 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch)

Fairways: Do not apply this product within 50 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch)

All other use sites: Do not apply this product within 100 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch)

| Suggested Spreader Settings  |              |                   |                         |                            |                          |                           |
|--|--------------|-------------------|-------------------------|----------------------------|--------------------------|---------------------------|
| These suggested spreader settings are not intended to replace calibration. Please calibrate your spreader before applying product. |              |                   |                         |                            |                          |                           |
| 50 lbs. treats 14,500 sq. ft. (0.33 acre) at the 150 lbs. product/acre - LOW RATE (3.44 lbs/1,000 sq. ft. rate)                    |              |                   |                         |                            |                          |                           |
| 50 lbs. treats 9,600 sq. ft. (0.22 acre) at the 225 lbs. product/acre - MEDIUM RATE (5.17 lbs/1,000 sq. ft. rate)                  |              |                   |                         |                            |                          |                           |
| 50 lbs. treats 7,200 sq. ft. (0.17 acre) at the 300 lbs. product/acre - HIGH RATE (6.88 lbs/1,000 sq. ft. rate)                    |              |                   |                         |                            |                          |                           |
| 50 lbs. treats 4,300 sq. ft. (0.10 acre) at the 500 lbs. product/acre - HEAVY RATE (11.47 lbs/1,000 sq. ft. rate)                  |              |                   |                         |                            |                          |                           |
| SPREADER   | GROUND SPEED | WIDTH OF COVERAGE | SPREADER SETTINGS       |                            |                          |                           |
|  |              |                   | LOW RATE 0.10 lbs. ai/A | MEDIUM RATE 0.15 lbs. ai/A | HIGH RATE 0.20 lbs. ai/A | HEAVY RATE 0.33 lbs. ai/A |
| Andersons! 2000 series (cone 6); Andersons LCO-1000  | 3 mph        | 11 feet           | L                       | N                          | O 3/4                    | S 3/4                     |
| Scotts R-8A (cone 6)   | 3 mph        | 11 feet           | K                       | M                          | O                        | S                         |
| Lesco 020093 (pattern 0.25)  | 3 mph        | 9 feet            | E                       | F                          | G                        | J 1/2                     |
| Lesco 705698 (pattern 0.25)  | 3 mph        | 9 feet            | 12                      | 14                         | 16                       | 23                        |
| Lely Models WTR, WFR, HR, 1250 (PTO at 450 rpm) Pattern II-C   | 4.5 mph      | 30 feet           | 5                       | 6                          | 7                        | 8 3/4                     |
| Vicon (O3 Series)  | 4.5 mph      | 28 feet           | 22                      | 27                         | 33                       | 47                        |

These spreader settings were established using standard equipment available from the spreader manufacturer at swath widths and speeds typically used within the industry. Calibrate all spreader equipment at the time of application to achieve labeled application rate.

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|---|
| <b>STORAGE AND DISPOSAL</b><br>Do not contaminate water, food, or feed by storage or disposal.  |
| <b>PESTICIDE STORAGE:</b> Store product in original container only in a location inaccessible to children and pets. Do not contaminate water, other pesticides, fertilizer, food or feed in storage.  |
| <b>PESTICIDE DISPOSAL:</b> Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.                                      |
| <b>CONTAINER DISPOSAL:</b> Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration. |

**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 thereof and is reasonably fit for the purpose stated on the label when used in strict accordance with the directions. To the extent consistent with applicable law, 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.

Product of USA

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

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## SGN Fairways Net Wt. 50 Lbs. (22.68 kg)



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