

# Merit<sup>®</sup> 0.2 Plus Fertilizer

For fertilization and insect control in turfgrass and landscape ornamentals.

Fertilizer with Merit Insecticide

## ACTIVE INGREDIENT

Imidacloprid, 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-

Imidazolidinimine ..... 0.20%

**INERT INGREDIENTS:** ..... 99.80%

Total: ..... 100.00%

# 24-5-11

## GUARANTEED ANALYSIS

Total Nitrogen (N) ..... 24.00%

1.93% Ammoniacal Nitrogen

22.07% Urea Nitrogen\*

Available Phosphate (P<sub>2</sub>O<sub>5</sub>) ..... 5.00%

Soluble Potash (K<sub>2</sub>O) ..... 11.00%

Sulfur (S) Total ..... 3.50%

3.50% Free Sulfur (S)

**Derived From:** Polymer Coated Sulfur Coated Urea, Urea, Ammonium

Phosphate, Muriate of Potash.

**CHLORINE (Cl) Max** ..... 8.25%

\*10.00% Slowly available Nitrogen from LESCO<sup>®</sup> Poly Plus<sup>®</sup> Sulfur Coated Urea

Made in U.S.A.

F1406

E.P.A. Reg No. 3125-474-10404

E.P.A. Est No. 10404-OH-4 (M)

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**STOP – Read the Label Before Use**

**PRECAUCION AL USUARIO:** Si usted no puede leer o entender ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

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

## 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.

## STATEMENTS OF PRACTICAL TREATMENT

**IF SWALLOWED:** Call a physician or Poison Control Center. Drink one or two glasses of water and induce vomiting by touching back of throat with finger, or, if available, by administering syrup of ipecac. If syrup of ipecac is available, administer 1 tablespoonful (15 ml) of syrup of ipecac followed by 1 to 2 glasses of water. If vomiting does not occur within 20 minutes, repeat the dose once. Do not induce vomiting or give anything by mouth to an unconscious person.

**IF ON SKIN:** Wash thoroughly with soap and water. Get medical attention if irritation occurs.

**IF IN EYES:** Hold eyelids open and flush with plenty of water. Call a physician if irritation persists.

**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.

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.

**CONDITIONS OF SALE:** The directions on this label were determined through research to be appropriate for the correct use of this product. This product has been tested under different environmental conditions both indoors and outdoors under conditions similar to those that are ordinary and customary where the product is to be used. Insufficient control of pests or plant injury may result from the occurrence of extraordinary or unusual conditions, or from failure to follow label directions. In addition, failure to follow label directions may cause injury to animals, man and damage to the environment. LESCO offers, and the buyer accepts and uses, this product subject to the conditions that extraordinary or unusual environmental conditions, or failure to follow label directions are beyond the control of LESCO and are, therefore, the responsibility of the buyer.

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

## DIRECTIONS FOR USE

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

**IMPORTANT:** Read these entire DIRECTIONS FOR USE and CONDITIONS OF SALE before using Merit 0.2 Plus 24-5-11 Fertilizer.

## APPLICATION TO TURFGRASS

The use of this product will provide plant nutrients as well as providing control of selected insect pests. Merit 0.2 Plus 24-5-11 Fertilizer can be used for the control of soil inhabiting pests of turfgrass, such as Northern & Southern masked chafers, *Cyclocephala borealis*, *C. immaculata*, and/or *C. lurida*; Asiatic garden beetle, *Maladera castanea*; European chafer, *Rhizotroqus majalis*; May or June beetles, *Phyllophaga* spp.; Japanese beetle, *Popillia japonica*; Oriental beetle, *Anomala orientalis*; Billbugs, *Sphenophorus* spp; Annual bluegrass weevil, *Hyperodes* spp.; Black turfgrass ateniens, *Ateniens spretulus*; *Aphodius* spp.; and mole crickets, *Scapteriscus* spp. Merit 0.2 Plus 24-5-11 Fertilizer 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, parks, playgrounds, and athletic fields. Merit 0.2 Plus 24-5-11 Fertilizer cannot be used on commercial sod farms.

The active ingredient in Merit 0.2 Plus 24-5-11 Fertilizer 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 made preceding or during the egg laying period. 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. Optimum control will be achieved when applications are made prior to egg hatch of the target pest, followed by sufficient irrigation or rainfall to move the active ingredient through the thatch.

Applications should not be made 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 treated turf must be in such a condition that the rainfall or irrigation will penetrate vertically into the soil profile. Applications cannot exceed a total of 200 lb (0.4 lb of active ingredient) per acre per year.

## APPLICATION TO ORNAMENTALS

Merit 0.2 Plus 24-5-11 Fertilizer can be used as a broadcast application on ornamentals in commercial and residential landscapes, as well as on landscaped areas of golf courses and other recreational areas. This is a systemic product, with the active ingredient being absorbed by the roots and translocated upward within the plant. Optimum control will be achieved when applications are followed by sufficient mechanical incorporation, irrigation or rainfall to place the active ingredient into the soil. Application should be made prior to anticipated pest infestation to achieve optimum levels of control.

Applications of Merit 0.2 Plus 24-5-11 Fertilizer cannot exceed a total of 200 lb (0.4 lb of active ingredient) per acre per year.

**Note: Nor for use in commercial greenhouses, or nurseries, or on sod farms.**

## APPLICATION EQUIPMENT

Apply Merit 0.2 Plus 24-5-11 Fertilizer uniformly over the area being treated with typical granular application equipment. Both drop-type and rotary-type spreaders may be used to apply Merit 0.2 Plus 24-5-11 Fertilizer. Avoid the use 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.

## SPREADER SETTINGS FOR Merit 0.2 Plus 24-5-11 Fertilizer

The following chart can be used as a guide in establishing an accurate rate of Merit 0.2 Plus 24-5-11 Fertilizer. The suggested settings should provide an application rate of 3.5 lb per 1,000 sq ft, or 150 lb per acre. Application rates will vary dependent upon speed, equipment wear, and condition of spreader. Carefully calibrate all equipment used prior to commercial use of this product.

Rotary Spreader	Settings
LESCO	Calibration Gauge #14
Cyclone <sup>®</sup> or Spyker <sup>®</sup>	4
Vicon <sup>®</sup>	26
Lely <sup>®</sup>	4

# #027100

# Merit<sup>®</sup> 0.2 Plus Fertilizer

## RECOMMENDED APPLICATION RATES

CROP	PEST	DOSAGE	REMARKS
		Merit 0.2 Plus 24-5-11 Fertilizer	
Turf Grasses	Larvae of: Japanese beetle Black turfgrass atenius Northern masked chafer Southern masked chafer European chafer Oriental beetle Asiatic garden beetle <i>Phyllophaga</i> spp.	150 lb per acre or 3.5 lb per 1,000 sq ft	For optimum control, make application prior to egg hatch of the target pest.  Be sure to read "APPLICATION EQUIPMENT" section of this label.
	Larvae of: Billbugs Annual bluegrass weevil	150 to 200 lb per acre or 3.5 to 4.5 lb per 1,000 sq ft	
	Mole Crickets	200 lb per acre or 4.5 lb per 1,000 sq ft	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, Merit application should be accompanied by a curative insecticide.

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

**NOTE:** For optimum control, irrigation or rainfall should occur within 24 hours after application to move the active ingredient through the thatch. On golf courses, irrigate treated areas following application. Do not apply more than 200 lb (0.4 lb of active ingredient) per acre per year. Avoid mowing turf or lawn area until after irrigation or rainfall has occurred so that uniformity of application will not be affected.

## RECOMMENDED APPLICATION RATES FOR USE ON ORNAMENTALS

CROP	PEST	DOSAGE	REMARKS
		Merit 0.2 PLUS 24-5-11 Fertilizer	
Landscape Plantings Including: Trees Shrubs Evergreens Flowers Foliage Plants Ground Covers	White grub larvae Such as: Japanese beetle larvae Chafers <i>Phyllophaga</i> spp. Asiatic garden beetle Oriental beetle	3.5 to 4.5 lb 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.  <b>NOTE:</b> For optimum control, mechanical incorporation, irrigation or rainfall should occur within 24 hours after application to move the active ingredient into soil.  Refer to label sections on application equipment and spreader settings.

## STORAGE AND DISPOSAL

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

**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:** Completely empty bag into application equipment. Dispose of empty bag in a sanitary landfill or by incineration, or if allowed by the state and local authorities, by burning. If burned, stay out of smoke.

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. Handle and open container in a manner as to prevent spillage. If material is spilled for any reason or cause, carefully contain any spilled material to prevent non-target contamination.

Do not walk through spilled material and dispose of as directed for pesticides above. Refer to Precautionary Statements on label for hazards associated with the handling of this material. In spill or leak incidents, keep unauthorized people away. Contact Chemtrec at 800-424-9300 for decontamination procedures or any other assistance that may be necessary.

## RESTRICTIONS

Avoid runoff or puddling of irrigation water following application. Avoid application of Merit 0.2 plus 24-5-11 Fertilizer 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 200 lb (0.4 lb of active ingredient) per acre per year. Do not apply to vegetable gardens.

Information concerning the raw materials composing this product can be obtained by writing to: LESCO, Inc., Attn: RA Dept, 15885 Sprague Rd., Strongsville, OH 44136-1772, referring to the item number found on this bag.

Information regarding the contents and levels of metals in this product is available on the Internet at <http://www.regulatory-info-a1.com>

Merit is a registered trademark of Bayer AG. LESCO and Poly Plus are registered trademarks and the sweeping design is a trademark of LESCO Technologies, LLC. Cyclone and Spyker are registered trademarks of Spyker Spreaders, LLC. Lely is a registered trademark of C Van Der Lely N.V. Vicon is a registered trademark of Ransomes-Cushman-Ryan.

G:\REGUL\WP\STRONGSV\Aprvd Lbl - Word\Control Products\Merit\027100.doc  
Rev. 6/10/03 WBW (080995)

Net Weight: 50 lb (22.7 kg)



E.P.A. Reg. No. 3125-474-10404  
E.P.A. Est. No. 10404-OH-04 (M)

# #027100

F1406  
Distributed by: **LESCO, Inc.**  
15885 Sprague Road  
Strongsville, Ohio 44136-1772

