

Helena

Pro-Mate® Merit® 0.2% Plus Turf Fertilizer

For fertilization and insect control in turfgrass and landscape ornamentals and sod farms.

Fertilizer with MERIT® Insecticide.

ACTIVE INGREDIENT:

Imidacloprid, 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine 0.2%

OTHER INGREDIENTS 99.8%

TOTAL: 100.0%

U.S. Patent Nos. 4,742,060 and 5,783,203

STOP—Read the label before use.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

PRECAUCION AL USUARIO: Si usted no puede leer o entender inglés, 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.)

SN 041305/0605

EPA Reg. No. 432-1349-5905

EPA Est. No. First letters of product batch code indicate producing establishment: 5905-NC-018 • 5905-NM-001 • 5905-FL-003 • 5905-TX-037

Net Weight: 50 LBS (22.68 kg)

MANUFACTURED FOR:

HELENA CHEMICAL COMPANY

225 SCHILLING BOULEVARD, SUITE 300

COLLIERVILLE, TENNESSEE 38017

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.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some of the materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride
- Shoes plus 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.

FIRST AID

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

IF IN EYES:

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

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.

STORAGE AND DISPOSAL

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

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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.

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.

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.

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 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 this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses 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

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

APPLICATION TO TURFGRASS

The use of this product will provide plant nutrients as well as providing control of selected insect pests. **PRO-MATE® MERIT® 0.2% PLUS TURF 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, Rhizotrogus 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 atenius, Ateanius spretulus; Aphodius spp.; and mole crickets, Scapteriscus spp. **PRO-MATE® MERIT® 0.2% PLUS TURF 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, athletic fields and sod farms.

The active ingredient in **PRO-MATE® MERIT® 0.2% PLUS TURF 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

PRO-MATE® MERIT® 0.2% PLUS TURF FERTILIZER can be used as a broadcast application on ornamentals 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 **PRO-MATE® MERIT® 0.2% PLUS TURF FERTILIZER** cannot exceed a total of 200 lb (0.4 lb of active ingredient) per acre per year.

NOTE: Not for use in commercial greenhouses, or nurseries.

APPLICATION EQUIPMENT

Apply **PRO-MATE® MERIT® 0.2% PLUS TURF FERTILIZER** uniformly over the area being treated with typical granular application equipment. Both drop-type and rotary-type spreaders may be used to apply **PRO-MATE® MERIT® 0.2% PLUS TURF 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 PRO-MATE® MERIT® 0.2% PLUS TURF FERTILIZER

The following chart can be used as a guide in establishing an accurate rate of **PRO-MATE® MERIT® 0.2% PLUS TURF FERTILIZER**. The suggested settings should provide an application rate of 3.5 lb per 1000 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.

RECOMMENDED APPLICATION RATES

CROP	PEST	DOSAGE PRO-MATE® MERIT® 0.2% PLUS TURF FERTILIZER
Turf Grasses	Larvae of:	150 to 200 lb per acre
	Asiatic garden beetle	or
	Black turfgrass atanius	3.5 to 4.5 lb per 1000 sq ft
	European chafer	
	Japanese beetle	
	Northern masked chafer	
	Oriental beetle	
	<i>Phyllophaga</i> spp.	
	Southern masked chafer	
	Larvae of:	150 to 200 lb per acre
	Annual bluegrass weevil	or
	Billbugs	3.5 to 4.5 lb per 1000 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.		
Mole crickets		200 lb per acre
		or 4.5 lb per 1000 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, **PRO-MATE® MERIT® 0.2% PLUS TURF FERTILIZER** 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 irrigation or rainfall has occurred so that uniformity of application will not be affected.

RECOMMENDED APPLICATION RATES FOR USE ON ORNAMENTALS

CROP	PEST	DOSAGE PRO-MATE® MERIT® 0.2% PLUS TURF FERTILIZER
Landscape Plantings	White grub larvae Such as: Including: Japanese beetle larvae, Trees, Shrubs, Chafers, <i>Phyllophaga</i> spp., Evergreens, Asiatic garden beetle, Flowers, Oriental beetle Foliage, Plants, Ground Covers	3.5 to 4.5 lb per 1000 sq ft
Apply as a broadcast treatment. Prior to application, remove black plastic or other weed barrier material that will not permit water permeability. NOTE: 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.		

RESTRICTIONS

Avoid runoff or puddling of irrigation water following application. Avoid application of **PRO-MATE® MERIT® 0.2% PLUS TURF 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.

CONDITIONS OF SALE—LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

Read the Conditions of Sale—Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.

The directions on this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions or the failure to follow the label directions or good application practices, all of which are beyond the control of Helena Chemical Company (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Helena Chemical Company's election, one of the following:

1. Refund of the purchase price paid by buyer or user for product bought, or
2. Replacement of the product used

To the extent allowed by law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

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PRO-MATE® is a registered trademark of Helena Holding Company.

MERIT® is a registered trademark of Bayer Ag.

This product is specially formulated and sold under license from Bayer only for the uses set forth on this label. The active ingredient of this product, formulations containing this active ingredient, and/or methods of making or using this active ingredient or its formulations may be the subject of one or more Bayer patents, including but not limited to U.S. Patent Nos. 4,742,060 and 5,783,203. The purchase and/or use of this product constitutes acceptance of a limited license to use this product only in strict accordance with the instructions set forth on this label. Any use of this product other than as expressly set forth on this label is prohibited and is not licensed through the purchase and/or use of this product and may result in the infringement of one or more Bayer patents and/or other intellectual property rights.

Disclaimer: Always refer to the label on the product before using Helena or any other product.

BELOW ARE THE FERTILIZER TAGS FOR THE GRADES THAT ARE REGISTERED FOR THIS PRODUCT.

0-0-7 GUARANTEED ANALYSIS	
Soluble Potash (K ₂ O)	7.00%
Chlorine (Cl), maximum	6.00%
DERIVED FROM: Muriate of Potash	
Net Weight: 50 LBS (22.68 kg)	
Information about the components of this lot of fertilizer may be obtained by writing to Helena Chemical Company, 225 Schilling Boulevard, Suite 300, Collierville, TN 38017 and giving the lot number which is found on the container.	
F224	

28-4-14
W/PCSCU*

GUARANTEED ANALYSIS

Total Nitrogen (N)	28.00%
1.6% Ammoniacal Nitrogen	
26.4% Urea Nitrogen*	
Available Phosphate (P ₂ O ₅)	4.00%
Soluble Potash (K ₂ O)	14.00%
Sulfur (S)	2.00%
2.00% Free Sulfur (S)	
Chlorine (Cl), maximum	11.00%

DERIVED FROM: Polymer Coated Sulfur Coated Urea, Urea, Diammonium Phosphate and Muriate of Potash
*9.8% Slowly Available Urea Nitrogen from Polymer Coated Sulfur Coated Urea
Net Weight: 50 LBS (22.68 kg)

Information about the components of this lot of fertilizer may be obtained by writing to Helena Chemical Company, 225 Schilling Boulevard, Suite 300, Collierville, TN 38017 and giving the lot number which is found on the container.

F224

19-3-4
W/PCSCU*

GUARANTEED ANALYSIS

Total Nitrogen (N)	19.00%
1.2% Ammoniacal Nitrogen	
17.8% Urea Nitrogen*	
Available Phosphate (P ₂ O ₅)	3.00%
Soluble Potash (K ₂ O)	4.00%
Sulfur (S)	2.00%
2.00% Combined Sulfur (S)	
Chlorine (Cl), Maximum	1.00%

DERIVED FROM: Polymer Coated Sulfur Coated Urea, Urea, Diammonium Phosphate and Sulfate of Potash
*5.3% Slowly Available Urea Nitrogen from Polymer Coated Sulfur Coated Urea
Net Weight: 50 LBS (22.68 kg)

Information about the components of this lot of fertilizer may be obtained by writing to Helena Chemical Company, 225 Schilling Boulevard, Suite 300, Collierville, TN 38017 and giving the lot number which is found on the container.

F224

19-3-4
W/PCSCU*

GUARANTEED ANALYSIS

Total Nitrogen (N)	19.00%
1.2% Ammoniacal Nitrogen	
17.8% Urea Nitrogen*	
Available Phosphate (P ₂ O ₅)	3.00%
Soluble Potash (K ₂ O)	4.00%
Chlorine (Cl), maximum	4.00%

DERIVED FROM: Polymer Coated Sulfur Coated Urea, Urea, Diammonium Phosphate and Muriate of Potash
*5.3% Slowly Available Urea Nitrogen from Polymer Coated Sulfur Coated Urea
Net Weight: 50 LBS (22.68 kg)

Information about the components of this lot of fertilizer may be obtained by writing to Helena Chemical Company, 225 Schilling Boulevard, Suite 300, Collierville, TN 38017 and giving the lot number which is found on the container.

F224

15-0-15
W/PCSCU*

GUARANTEED ANALYSIS

Total Nitrogen (N)	15.00%
15.0% Urea Nitrogen*	
Soluble Potash (K ₂ O)	15.00%
Chlorine (Cl), maximum	12.00%

DERIVED FROM: Polymer Coated Sulfur Coated Urea, Urea, and Muriate of Potash
*2.6% Slowly Available Urea Nitrogen from Polymer Coated Sulfur Coated Urea
Net Weight: 50 LBS (22.68 kg)

Information about the components of this lot of fertilizer may be obtained by writing to Helena Chemical Company, 225 Schilling Boulevard, Suite 300, Collierville, TN 38017 and giving the lot number which is found on the container.

F224

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