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451-8433.YLD

3125-451

U.S. LABEL

tage 1 of

Base Pre-Reg. (8433)

Reason to Issue: To add mole crickets; to conform product labels.

Date of Pre-Reg Draft: 01/19/95(S)

MERIT 0.5 G

Insecticide

For systemic insect control in turigrass and landscape ornamentals.

ACTIVE INGREDIENT:

0.5% 99.5%

100.00%

EPA Reg. No. 3125-451

Net Contents: 30 Pounds

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.)

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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.

Wash thoroughly with soap and water. Get medical attention if irritation occurs. If in eyes: Hold eyelids apon and flush with plenty of water. Call aphysician if irritation persists.

Do not induce vomiting or give-anything by

mouth to an unconscious person. If on skin:

TO PHYSICIAN. No specific aritidate is available. Treat the patient symptomatically.

ACCEPTED

MAR 08 1995

Under the Federal Insecticide.
Fungicide. and flodestictide Act
as amended, for the posticide
registered under.
EFA Reg. No. 5/25-45/

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Insecticide

MERIT

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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.

IMPORTANT: Read these entire DIRECTIONS FOR USE, GENERAL INFORMATION, AND CONDITIONS OF SALE before using MERIT 0.5 G Insecticide.

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. MILES 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 MILES AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

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

GENERAL INFORMATION

APPLICATION TO TURFGRASS

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MERIT 0.5 G Insecticide 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. Iurida; Asiatic garden beetle, Maladera castanea; European chafer, Rhizotroqus majalis; May or June beetles, Phyllophaga spp.; Japanese beetle, Popillia japonica; Oriental beetle, Anomala orientalis; Billbugs, Spherophorus spp.; Annual bluegrass weevil, Hyperodes spp.; Black turfgrass ataenius, Ataenius spretulus; and Aphodius spp. MERIT 0.5 G Insecticide 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 Insecticide can not be used on commercial sod farms.

The active ingredient in MERIT 0.5 G Insecticide has sufficient residual activity so that applications can be made preciding 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 whan applications are made prior to egg haigh of the target pest, followed by sufficient irrigation or rainfall to move the active ingredient through the thaton

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 in the soil profile. Applications cannot exceed a total of 80 lb (0.4 lb of active ingredient) per acre per year.

APPLICATION TO ORNAMENTALS

MERIT 0.5 G Insecticide can be used as a broadcast { application on omamentals in commercial and residential landscapes. MERIT 0.5 G is a systemic product and will be translocated upward within the plant system. Optimum control will be achieved when applications are followed by sufficient mechanical incorporation, irrigation or rainfall to move the active ingredient into the soil. Applications should be made prior to anticipated pest infestation to achieve optimum levels of control.

Applications of MERIT 0.5 G Insecticide cannot exceed a total of 80 lb (0.4 lb of active ingredient) per acre per year.

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 plantscapes, ornamental gardens or parks, or on golf courses or lawns and grounds.

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APPLICATION EQUIPMENT

Apply MERIT 0.5 G Insecticide uniformly over the area being treated with normally used granular application equipment. Both drop-type and rotary-type spreaders may be used to apply MERIT 0.5 G Insecticide. 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 0.5 G INSECTICIDE

The following chart can be used as a guide in establishing an accurate rate of MERIT 0.5 G Insecticide. The suggested settings should provide an application rate of 1.4 lb per 1000 sq ft or 60 lb per acre. Application rates will vary dependent upon speed, equipment wear and condition of spreader. Carefully calibrate all the equipment used prior to commercial use of this product.

SPREADER	SETTING	SPREADER	SETTING
Cyclone	4	Scott's Drop PF-1	5
Gandy	23	Scott's Easygreen	26
Jet Spread III	4.5	Scott's R-7X	E
Lely	3.5	Scott's R-8	K
Lesco	F	Scott's Speedygreen	4
Meijer Drop	6	Spyker	3
Prize Lawn	4	True Value Rotary	2
Scott's Accugreen	4	Vicon PS-402	15

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RECOMMENDED APPLICATIONS				
CROP	PEST	DOSAGE MERIT 0.5 G	REMARKS	
Turf Grasses	Larvae of: Japanese beetle Black turfgrass staenius Northern masked chafer Southern masked chafer European chafer Oriental beetle Asiatic garden beetle Phyllophaga spp. Billbugs Annual bluegrass weevil	50 to 80 to per acre or 1.2 to 1.8 to per 1000 sq ft	For optimum control of grubs, billbugs and annual bluegrass weevil, make application prior to egg hatch of the target pest. Be sure to read "APPLICATION EQUIPMENT" Section of this label.	
	Larvae of: Japanese beetle Black turfgrass etaensus Northern masked chafer Southern masked chafer European chafer Oriental beetle Asiatic garden beetle Phyllophaga spp.	60 lb per scre or 1.4 lb per 1000 sq ft		
	Larvae of: Billbugs Annual bluegrass weevil	60 to 50 lb per acre or 1.4 to 1.8 lb per 1000 sq ft		
	Mole crickets	80 lb per acre or 1.8 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, MERIT application should be accompanied by a curative insecticide. Follow label instructions for other insecticides when tank-mixing.	

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 80 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.

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RECOMMENDED APPLICATIONS FOR USE ON ORNAMENTALS For use only in and around industrial and commercial buildings and residential areas.				
CROP	PEST	DOSAGE MERIT 0.5 G	REMARKS	
Landscape Plantings (including trees, shrubs, evergreens, flowers, foliage plants, and ground covers)	White grub larvae (such as Japanese beetle larvae, Chafers, Phyllophaga app. Asiatic garden beetle, Oriental beetle)	1.4 to 1.8 fb 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 spreade	

RESTRICTIONS

Avoid runoff or puddling of irrigation water following application. Avoid application of MERIT 0.5 G Insecticide to areas which are waterlogged 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 plant any food crop within one year of a treatment with MERIT 0.5 G Insecticide.

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, 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. You may contact the Miles Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Miles Kansas City Emergency Response telephone number is 816-242-2582, or contact Chemtrec at 800-424-9300.



Miles Inc. Specialty Products Box 4913, Kansas City, MO 64120-0013

