

MERIT 1 G Insecticide

452-8179.YLD

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3125-452

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Base Pre-Reg. (8179)

U.S. LABEL

Reason to Issue: To modify crop designation to note flowering plants.

Date of Draft: 04/19/94(Pre-Reg)(C)

MERIT 1 G

Greenhouse and Nursery Insecticide

FOR SYSTEMIC INSECT CONTROL IN ORNAMENTAL CROPS

ACTIVE INGREDIENT:

Imidacloprid, 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine 1.0%

INERT INGREDIENTS 99.0%

100.0%

EPA Reg. No. 3125-452

Net Contents: ____ Ounces

STOP - READ THE LABEL BEFORE USE

KEEP OUT OF REACH OF CHILDREN

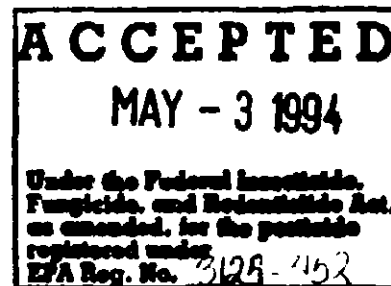
CAUTION

(See Rear Panel for Statements of Practical Treatment and Other Precautionary Statements)

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.)

MILES 



BEST AVAILABLE COPY

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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.

Personal Protective Equipment (PPE):

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Water-proof gloves
- 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.

Engineering controls statements:

- When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations:

User 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.

STATEMENTS OF PRACTICAL TREATMENT

If in eyes: Hold eyelids open and flush with plenty of water. Call a physician if irritation persists. **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, 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.

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.

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.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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
- Waterproof gloves
- Shoes plus socks

IMPORTANT: Read these entire DIRECTIONS FOR USE, GENERAL INFORMATION, AND CONDITIONS OF SALE before using MERIT 1 G Greenhouse and Nursery 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.

GENERAL INFORMATION**ORNAMENTAL PESTS**

MERIT 1 G Greenhouse and Nursery Insecticide is for use on ornamental plants in nurseries and greenhouses. Ornamental plants which may be treated include trees, shrubs, flowering and foliage plants. Foliage plants include those plants produced for the ornamental qualities of their foliage and not as a floral or blooming crop. MERIT 1 G Greenhouse and Nursery Insecticide is a systemic product and will be translocated upward within the plant system. To assure optimum effectiveness, the product must be placed by incorporation where the roots of the plant can absorb the active ingredient.

Incorporation of MERIT 1 G Greenhouse and Nursery Insecticide can be achieved by cultivation, irrigation, rainfall, mechanical placement or by using mechanical soil or media mixing.

In trees or plants with woody stems, systemic activity using soil application treatment methods can be delayed until the active ingredient is translocated throughout the plant. For this reason, applications should be made prior to an infestation by the anticipated pest to achieve optimum levels of control.

RECOMMENDED APPLICATIONS				
FOR USE ON or IN indoor and outdoor ornamentals grown in flats, benches or beds and for treatment of containerized flowering and foliage plants.				
	ORNAMENTAL CROPS GROWN IN FLATS, BENCHES OR BEDS.			
INSECT PESTS	DOSAGE	REMARKS		
Adelgids Aphids Black vine weevil larvae Foliar feeding beetles Lacebugs Leafhoppers Leafminers Mealybugs Pine tip moth larvae Scale insects Thrips Whiteflies White grub larvae	9 to 15 oz per 1000 sq ft	Use the lower rate when treating flats and the higher rates when treating beds or benches. Apply as a broadcast treatment and incorporate into the soil before planting or apply after plants are established. If applied to established plants, irrigate after application to move the active ingredient into the root zone.		
		CONTAINERIZED FLOWERING AND FOLIAGE PLANTS.		
	Container Size (inches)	DOSAGE PER CONTAINER		REMARKS
		Grams	Level Teaspoons	
	2.0 - 3.0	0.5	1/8 tsp	Application can be made at transplanting; repotting, or on existing containerized plants. Irrigate after application to move the active ingredient into the root zone. Do not apply more irrigation water than is required to saturate the potting media.
	3.5 - 5.0	1.0	1/4 tsp	
	5.5 - 7.0	1.3	1/3 tsp	
	7.5 - 10.0	2.0	1/2 tsp	
	11.0 - 12.0	2.7	2/3 tsp	
	NOTE: 1 level tsp of MERIT 1 G = 4.1 grams			
GROWING MEDIA.				
3.0 pounds per cubic yard of growing media.	Mix the required amount of MERIT 1 G per cubic yard of media during the mixing operations. Thoroughly mix the media to ensure a uniform distribution of the MERIT 1 G in the potting media before filling pots and planting. No more potting media should be treated than can be used during a filling operation.			
FOR ADDITIONAL INSTRUCTIONS, SEE GENERAL INFORMATION				

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RESTRICTIONS

Do not apply to soils which are water-logged, or saturated which will not allow the penetration of water into the root zone of the plants.

Do not over-irrigate or allow excessive runoff to occur following an application of MERIT 1 G. Do not apply to bedding plants intended to be used as food crops.

For outdoor ornamentals grown in beds, applications of MERIT 1 G cannot exceed a total of 40 lb (0.4 lb of active ingredient) per acre per year. Soil applications to containerized plants and greenhouse crops are limited to a single application per crop cycle, or once per year on crops having a production cycle of longer than one year.

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 container into application equipment. Dispose of empty containers by incineration in a sanitary landfill 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