

Reg # 3125-452

PM-19

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 M St., S.W.
Washington, D.C. 20460

EPA Reg.
Number:

3125-452

Date of Issuance:

APR 08 1994

NOTICE OF PESTICIDE:

X Registration
 Reregistration

(under FIFRA, as amended)

Term of Issuance:

Conditional, Expires:
September 30, 1998

Name of Pesticide Product:

Merit 1 G
Greenhouse and
Nursery Insecticide

Name and Address of Registrant (include ZIP Code):

Miles Inc.
P.O. Box 4913
8400 Hawthorn Road
Kansas City, MO 64120-0013

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistration under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit data required to change this registration to an unconditional FIFRA section 3(c)(5) registration. The required data with deadlines for submitting the required data are listed on the second page of this notice of Pesticide Registration.

2. Make the following label change:

Add the phrase, "EPA Registration No. 3125-452" to your label before you release the product for shipment.

Signature of Approving Official: Dennis H. Edwards
Dennis H. Edwards, Product Manager (19)
Insecticide Branch Rodenticide Branch
Registration Division (H7505C)

Date:

APR 08 1994

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3. Submit five (5) copies of your final printed labeling, with the changes referred to above, before you release the product for shipment.

Required Data and Deadlines for Submissions of Data:

Toxicology

1. You must submit acute and subchronic neurotoxicity testing. These studies must be received by the Agency by June 30, 1994.

Environmental Fate

2. The submitted validated analytical methods for the determination of Imidacloprid and degradates of toxicological concern in ground and surface water samples must be acceptable or Miles must make appropriate corrections/additions and resubmit the analytical method within 6 months after notification.

Ecological Effect

3. Submit a new mallard reproduction study to establish the NOEC for eggshell thickness. This study must be received by the Agency by November 30, 1994.

4. Conduct a baseline field monitoring study to locate suitable sites and avian species (a species that would have high exposure to NTN on turf during the nesting reproduction period of this species). This study must be received by the Agency by November 30, 1994.

5. Once the appropriate avian species has been identified, you must demonstrate that this species has reasonable sensitivity in order to be used as an indicator species, ie shows reproductive impairment at levels that can expected to be found in the environment. These studies must be received by the Agency by December 30, 1995.

6. You must submit an acceptable avian reproduction monitoring study with the appropriate species. The study should be at least 2 years in length (2 full nesting seasons). This study must be submitted by December 31, 1997.

7. An annual progress report of the monitoring study must be submitted by September 30, of each year during the period this product is conditionally registered.

If these conditions are not complied with, the registration will be subject to can cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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A stamped copy of the label is enclosed for your records.

Sincerely,

~~Dennis H. Edwards, Jr.~~

Dennis H. Edwards, Jr.
Product Manager 19
Insecticide-Rodenticide Branch
Registration Division (H7505C)

Enclosure

MERIT 1 G Insecticide

XXX-8166.YLD

Base Pre-Reg. (8166)

U.S. LABEL

498

Reason to Issue: To delete the word "aviso".

Date of Draft: 04/05/94(Pre-Reg)(C)
Supersedes Pre-Reg Draft Dated: 03/21/94

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 File Symbol No. 3125-XXX

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.)

ACCEPTED
with COMMENTS
in EPA Letter Dated

APR - 8 1994

MILES 

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

3125-432

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.

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.

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.

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

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, flowers 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 ornamental plants.

ORNAMENTAL CROPS GROWN IN FLATS, BENCHES OR BEDS.			
INSECT PESTS	DOSAGE	REMARKS	
Adeigids Aphids Black vine weevil larvae Follar 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 ORNAMENTALS 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 POTTING MEDIA.			
3.0 pounds per cubic yard of growing media.	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			

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