



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
401 M St., S.W.
Washington, D.C. 20460

EPA Reg. Number
3125-417

Date of Issuance:
SEP 30 1998

NOTICE OF PESTICIDE:

Registration
 Reregistration

Term of Issuance: Unconditional

Name of Pesticide Product:
Merit 2.5 G Insecticide

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code).

Bayer Corporation
P.O. Box 4913
8400 Hawthorne Road
Kansas City, MO 64120-0013
Attn: John S. Thornton

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/reregistered 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 unconditionally registered in accordance with FIFRA sec. 3(c)(5). Once a pesticide is registered, however, it is not regarded as permanently acceptable. Registration does not eliminate the need for continual reassessment of pesticides. If the Agency determines that, at any time, additional data are required to maintain in effect the existing registration, the Agency will require submission of such data under FIFRA section (3)(c)(2)(B).

This product was initially issued a conditional registration on March 18, 1994 pending submission and review of additional required data. The specific data requirements were listed in our Notice of Conditional Registration. Our records indicate that all of the required data have subsequently either been submitted and accepted, or the data requirement has been waived. Copies of the data reviews and conclusions were sent to you previously. The provisions of your conditional registration have been met.

Signature of Approving Official:

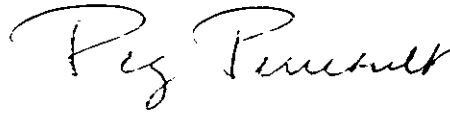
Date:

SEP 30 1998

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A stamped copy of the product label is enclosed for your records. If you have any questions regarding this Notice, please call me at (703) 305-5417 or (703) 305-5404.

Sincerely yours,



Peg Perreault
Chemical Manager, Team 4
Insecticide-Rodenticide Branch
Registration Division (7505C)

Enclosure (1)

3 9 6

417-8157.BLD

U.S. LABEL

Base Reg (8157F)

Reason to Issue: Add EPA comments for Conditional Registration.

Date of Draft: 03/23/94 (C)
Supersedes Pre-Reg Drafts Dated: 02/22/94
06/22/93, 11/09/93 and 12/15/93

Merit 2.5 G

Greenhouse and Nursery Insecticide

ACCEPTED
Sept. 30, 1994
Fungicides, Insecticides, and Rodenticides Act, as amended, for the pesticides registered under EPA Reg. No. 3125-417

For systemic insect control in ornamental crops.

ACTIVE INGREDIENT:

Imidacloprid, 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine	2.5%
INERT INGREDIENTS	97.5%
	100.0%

EPA Reg. No. 3125-417

Net Contents: ___ Ounces

**STOP - Read The Label Before Use
KEEP OUT OF REACH OF CHILDREN**

CAUTION

AVISO

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.)

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.

pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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

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.

Merit 2.5 G

4-2-16

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 2.5 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. BAYER 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 BAYER 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 2.5 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 2.5 G Greenhouse and Nursery 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 2.5 G Greenhouse and Nursery Insecticide can be achieved by cultivation, irrigation, rainfall, mechanical placement or by using mechanical soil or media mixing.

MERIT 2.5 G Greenhouse and Nursery Insecticide

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																					
CROP	PEST	DOSAGE MERIT 2.5 G GREENHOUSE AND NURSERY	REMARKS																		
Ornamentals grown in flats, benches or beds	Adelgids Aphids Black Vine Weevil larvae Elm Leaf Beetle Japanese beetle Lacebugs Leafhoppers Leafminers Mealybugs	3.7 to 5.9 ounces per 1000 square feet	ORNAMENTAL CROPS GROWN IN FLATS, BENCHES, OR BEDS 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 Ornamental Plants	Pine tip moth larvae Scale insects Thrips White grub larvae (such as Japanese beetle, Chafer, <i>Phyllophaga</i> spp., Asiatic garden beetle) Whiteflies	<p>Suggested Amount Per Container</p> <table border="1"> <thead> <tr> <th>Container Size</th> <th>Grams</th> <th>TBSP or tsp</th> </tr> </thead> <tbody> <tr> <td>up to 4 inches</td> <td>0.8</td> <td>1/6 tsp</td> </tr> <tr> <td>4 to 6</td> <td>1.2</td> <td>1/3 tsp</td> </tr> <tr> <td>6 to 8</td> <td>1.6</td> <td>1/2 tsp</td> </tr> <tr> <td>8 to 12</td> <td>2.4</td> <td>2/3 tsp</td> </tr> <tr> <td>12 to 24</td> <td>4.8</td> <td>1-1/4 tsp</td> </tr> </tbody> </table> <p>NOTE: 1 tsp of MERIT 2.5 G Greenhouse and Nursery = 4.0 grams</p>	Container Size	Grams	TBSP or tsp	up to 4 inches	0.8	1/6 tsp	4 to 6	1.2	1/3 tsp	6 to 8	1.6	1/2 tsp	8 to 12	2.4	2/3 tsp	12 to 24	4.8	1-1/4 tsp	<p>TREATMENT OF CONTAINERIZED PLANTS</p> <p>Application can be made at transplanting; re-potting, 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 potting media.</p> <p>SEE GENERAL INFORMATION</p>
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Growing Media		2.5 pounds per cubic yard of growing media	<p>Growing Media: Mix the required amount of MERIT 2.5 G Greenhouse and Nursery per cubic yard of media during the mixing operation. Thoroughly mix the media to ensure a uniform distribution of the MERIT 2.5 G Greenhouse and Nursery in the potting media before filling pots and planting. No more potting media should be treated than can be used during a filling operation.</p> <p>SEE GENERAL INFORMATION</p>																		

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 2.5 G Greenhouse and Nursery. Do not apply to bedding plants intended to be used as food crops.

For outdoor ornamentals grown in beds, applications of MERIT 2.5 G Greenhouse and Nursery cannot exceed a total of 16 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.

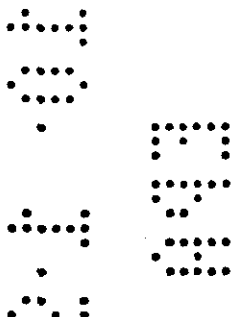
Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

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MERIT 2.5 G Greenhouse and Nursery Insecticide

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 Bayer Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer Kansas City Emergency Response telephone number is 800-414-0244 or contact Chemtrec at 800-424-9300.



Bayer Corporation
Garden & Professional Care
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