

432-1311

9/12/2003

Page 1 of 4



Bayer Environmental Science

Merit[®] 2.5 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 2.5%

OTHER INGREDIENTS: 97.5%

100.0%

EPA Reg. No. 432-1311

EPA Est. No. _____

**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.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- chemical resistant gloves made of any water proof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride or viton
- 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.

ACCEPTED
 SEP 12 2003
 Under the Federal Insecticide,
 Fungicide, and Rodenticide Act,
 as amended, for the pesticide
 Registered under
 EPA Reg. No. 432-1311

2 2 4

FIRST AID

If swallowed:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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. You may also contact 1-800-334-7577 for emergency medical treatment.

Note 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
- chemical resistant gloves made of any water proof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride or viton
- 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.

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	Adeigids Aphids Black Vine Weevil larvae. Elm Leaf Beetle Japanese beetle	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	Lacebugs Leafhoppers Leafminers Mealybugs Pine tip moth larvae Scale insects Thrips White grub larvae	Suggested Amount Per Container <u>Container Size</u> <u>Grams</u> <u>TBSP or tsp</u> 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 NOTE: 1 tsp of MERIT 2.5 G Greenhouse and Nursery = 4.0 grams	TREATMENT OF CONTAINERIZED PLANTS 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. SEE GENERAL INFORMATION
Growing Media	(such as Japanese beetle, Chafers, <i>Phyllophaga</i> spp., Asiatic garden beetle) Whiteflies	2.5 pounds per cubic yard of growing media	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. 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 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 Storage: 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 Bayer Environmental Science Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer Environmental Science Emergency Response Telephone No. is 1-800-334-7577 or contact Chemtrec at 800-424-9300.

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.

4 2 4

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of liability before using this product.

If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

CONDITIONS: The directions for use of this product are believed to be adequate and should be followed carefully. However, because of manner of use and other factors beyond Bayer Environmental Science's control it is impossible for Bayer Environmental Science to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: BAYER ENVIRONMENTAL SCIENCE MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer Environmental Science is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. Bayer Environmental Science disclaims any liability whatsoever for special, incidental or consequential damages, resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT BAYER ENVIRONMENTAL SCIENCE'S ELECTION, THE REPLACEMENT OF PRODUCT.

©Bayer AG, 2003

Reason for Revision: Bayerized Label, Updated EPA No, First Aid Statement, Warranty Statement. 8/2003

Net Contents: ___ Ounces

Bayer Environmental Science
A Business Group of Bayer CropScience LP
95 Chestnut Ridge Road
Montvale, NJ 07645

