



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

PM 23 100-889 9/30/98 page 1 of 11  
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D247679-TRB/CHEM

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Richard Pence  
Senior Regulatory Manager  
Novartis Crop Protection  
P.O. Box 18300  
Greensboro, NC 27419

SEP 30 1998

SUBJECT: Review of Revised Confidential Statement of Formula (CSF) and Labeling

Mertect® 340-F  
EPA Reg. No. 100-889  
Your Submission Dated April 14, 1998

Dear Mr. Pence:

The Agency has completed its review of the revised Basic formula (CSF) dated September 25, 1997 and the revised labeling. Please note the following points from the reviews:

1. There are no objections to use of the basic formula (CSF) dated September 25, 1997. Please note that this formula (CSF) supersedes all previously submitted formulas (CSFs) for the subject product..
2. The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable subject to the following conditions:

a. Change the Ingredient Statements to read the following:

Active Ingredient: Thiabendazole: 2-(4-thiazolyl)benzimidazole*	42.3%
Inert Ingredients:	<u>57.7%</u>
Total:	100.0%

\*4.1 lbs. active ingredient/gallon

b. Make the following changes in the **DIRECTIONS FOR USE** section:

- 1) Add the following section prior to the statement "GENERAL - SHAKE OR STIR WELL BEFORE USE":

"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.

- 2) The **AGRICULTURAL USE BOX** information is missing. You must put the following back on label after the above statements:

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with 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 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. 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

- 3) Make the statement "Mertect 340-F is not for use in formulating agricultural pesticides." the last sentence in the first paragraph after "GENERAL - SHAKE...."

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- 4) In the "Mushrooms" section, change "ft.<sup>2</sup>" to "sq. ft." for clearer directions.
  
- c. Under "Environmental Hazards", delete the statement "Do not apply directly to water." and replace it with "Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark."

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions. Submit one copy of the revised final printed label for our records. A stamped copy is enclosed for your records.

If you have any questions, then please contact Maria Rodriguez of my staff at (703) 305-5705.

Sincerely,



Cynthia Giles-Parker  
Product Manager (22)  
Fungicide Branch  
Registration Division (7505C)

Enclosure

Mertect® 340-F

FUNGICIDE

Flowable (Water-Dispersible Suspension)

Active Ingredient: Thiabendazole (CAS #148-79-8)	
4.1 lbs./gal. 2-(4-Thiazoly)benzimidazole .....	42.3%
Other Ingredients:	57.7%
Total:	100.0%

EPA Reg. No. 100-889

EPA Est. 39578-TX-1

2 GALLONS  
U.S. Standard Measure

**KEEP OUT OF REACH OF CHILDREN.**

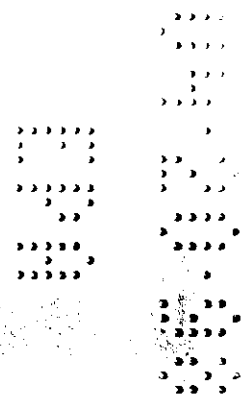
**CAUTION**

See additional precautionary statements and directions for use inside booklet.

NCP

**ACCEPTED**  
**with COMMENTS**  
**In EPA Letter Dated:**  
 SEP 30 1998

*Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 100-889*





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## DIRECTIONS FOR USE

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It is a violation of federal law to use this product in a manner inconsistent with its labeling.

### GENERAL - SHAKE OR STIR WELL BEFORE USE.

Mertect 340-F is a systemic fungicide which aids in the control of many important plant diseases. If treatment is not effective following use of Mertect 340-F as recommended, a tolerant strain of fungus may be present. Consideration should be given to prompt use of other suitable non-benzimidazole fungicides.

Clean equipment before using Mertect 340-F. When Mertect 340-F is dispersed in water, the resulting suspension must be constantly agitated. Avoid foaming.

Use the higher recommended rates under conditions of heavier disease pressure.

Compatibility information for Mertect 340-F with other chemicals is limited. Consult your supplier or agricultural experiment station for specific recommendations.

Do not apply this product through any type of irrigation system.

**Carrots - *Botrytis Cinerea* Gray Mold and *Sclerotinia Sclerotiorum* (Sclerotinia Rot):** Dip carrots, before storage, for 5-10 seconds in a suspension containing 4 fl. oz. of Mertect 340-F per 100 gals. of water. Replenish the suspension when the volume is too low or when it becomes dirty.

The run-off and wastes from the dipping operation should not be discarded in a drainage which could contaminate public water systems.

**Mushrooms (*Agaricus* sp.) - Dry Bubble (*Verticillium fungicola*), Wet Bubble (*Mycogone perniciosa*), Cobweb (*Dactylium dendroides*) and Green Mold (*Trichoderma* sp.):** Apply in water during normal watering or in a hand sprayer. Mertect 340-F may be applied at casting, fuzzing, pining, and between breaks. A maximum of 20 fl. oz. of Mertect 340-F per 1,000 ft.<sup>2</sup> may be applied to each crop. The first dose may contain up to 8 fl. oz. per 1,000 ft.<sup>2</sup>. Subsequent doses should not exceed 4 fl. oz. per 1,000 ft.<sup>2</sup>. Do not apply within 12 hours prior to harvest.

**Ornamental Bulbs and Corms - *Fusarium* Basal Rot and *Penicillium* Blue Mold:** Clean and treat bulbs or corm within 24-48 hours of digging. Prepare suspension of 30 fl. oz. of Mertect 340-F per 100 gals. of water. Submerge stock completely in dipping suspension. Suspension temperature should be 55-75°F (13-24°C). Discard suspension (1) when it









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BASE LABEL

Mertect® 340-F

FUNGICIDE

Flowable (Water-Dispersible Suspension)

Active Ingredient: Thiabendazole (CAS #148-79-8)

4.1 lbs./gal. 2-(4-Thiazolyl)benzimidazole .....	42.3%
Other Ingredients:	57.7%
Total	100.0%

See directions for use in attached booklet.

EPA Reg. No. 100-889

EPA Est. 39578-TX-1

2 GALLONS  
U.S. Standard Measure

KEEP OUT OF REACH OF CHILDREN.

CAUTION

Precautionary Statements

Hazards to Humans and Domestic Animals

Harmful if swallowed. Causes eye and skin irritation. Avoid contact with eyes, skin, and clothing. Wash thoroughly with soap and water after handling.

Statement of Practical Treatment

**If swallowed:** Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

**If in eyes:** Flush eyes with plenty of water. Call a physician if irritation persists.

**If on skin:** Wash with plenty of soap and water. Get medical attention if irritation persists.

