



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

100-1616

Date of Issuance:

10/20/17

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Mertect 60 WP

Name and Address of Registrant (include ZIP Code):

Teresa Cox  
Syngenta Crop Protection, LLC  
PO Box 18300  
Greensboro, NC 27419

**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 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 section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Tony Kish, Product Manager 22  
Fungicide Branch, Registration Division (7505P)

Date:

10/20/17

2. You are required to comply with the data requirements described in the DCI identified below:

a. Thiabendazole GDCI-060101-1453 (see docket EPA-HQ-OPP-2014-0175)

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division: <http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1>

3. Make the following label changes before you release the product for shipment:

- Revise the EPA Registration Number to read, “EPA Reg. No. 100-1616.”

4. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 6/6/2016
- Alternate CSF 1 dated 6/6/2016
- Alternate CSF 2 dated 6/6/2016

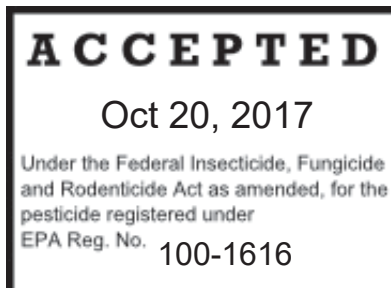
If you have any questions, please contact Lindsay Roe by phone at 703-347-0506, or via email at [roe.lindsay@epa.gov](mailto:roe.lindsay@epa.gov).

Enclosure

[Master Label]

**THIABENDAZOLE** | **GROUP 1** | **FUNGICIDE**

**Mertect® 60 WP**



Fungicide

Active Ingredient:

Thiabendazole\*..... 60.0%

Other Ingredients: 40.0%

Total: 100.0%

\*CAS No.148-79-8

Mertect 60 WP is a wettable powder containing 60.0% thiabendazole.

**KEEP OUT OF REACH OF CHILDREN.**

**WARNING**

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.)

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-XXXX

EPA Est.

1.25 pounds  
Net Weight

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## 1.0 FIRST AID

FIRST AID	
<b>If in eyes</b>	<ul style="list-style-type: none"><li>• 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.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If swallowed</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<b>HOT LINE NUMBER</b> For 24-Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call <b>1-800-888-8372</b>	

## 2.0 PRECAUTIONARY STATEMENTS

### 2.1 Hazards to Humans and Domestic Animals

#### WARNING

Causes substantial but temporary eye injury. Harmful if swallowed. Do not get in eyes or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

### 2.2 Personal Protective Equipment (PPE)

**Mixers, loaders, applicators, and other handlers must wear:**

- Long-sleeved shirt
- Long pants
- Shoes and socks
- Protective eyewear (goggles, face shield, or safety glasses)

**In addition to the above, mixers and loaders handling spawn and/or admix must wear:**

- A NIOSH/MSHA approved N, R, P, or HE respirator

**In addition to the above, handlers making application to mushroom houses using hand held sprayers must wear:**

- Waterproof gloves

### **2.2.1 USER SAFETY REQUIREMENTS**

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### **User Safety Recommendations**

##### **Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE 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.

### **2.2.2 ENGINEERING CONTROLS**

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.

## **2.3 Environmental Hazards**

This pesticide is toxic to fish and aquatic invertebrates. Do not apply when weather conditions favor runoff or drift from the target area. Do not apply directly to water, 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 washwater or rinsate.

## **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.

**FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR DISEASE CONTROL, OR ILLEGAL RESIDUES.**

### **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 the label about personal protective equipment (PPE), and restricted-entry interval, and notification to workers (as applicable). 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.**

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 waterproof material
- Shoes plus socks
- Protective eyewear

## **3.0 PRODUCT INFORMATION**

Read all label directions before use. All applications must be made according to the use directions that follow.

- Mertect 60 WP is a systemic fungicide which aids in the control of many important plant diseases.
- If treatment is not effective following use of Mertect 60 WP as recommended, a tolerant strain of fungus may be present. Consideration should be given to prompt use of other suitable non-benzimidazole fungicides.
- Mertect 60 WP is not for use in formulating agricultural products.

### 3.0.1 MODE OF ACTION

This product contains thiabendazole, a Group 1 fungicide. Thiabendazole belongs to the methyl-benzimidazole carbamate class of chemistry which disrupts  $\beta$ -tubuline assembly in mitosis.

### 3.0.2 CROP TOLERANCE

Not all crops within a crop group, and not all varieties, cultivars or hybrids of crops have been individually tested for crop safety. It is not possible to evaluate for crop safety all applications of Mertect 60 WP on all crops within a crop group, on all varieties, cultivars, or hybrids of those crops, or under all environmental conditions and growing circumstances. To test for crop safety, apply the product in accordance with the label instructions to a small area of the target crop to ensure that a phytotoxic response will not occur, especially where the application is a new use of the product by the applicator.

## 3.1 Integrated Pest Management (IPM)

Syngenta recommends the use of Integrated Pest Management (IPM) programs to control pests. Mertect 60 WP may be used as part of an IPM program which can include biological, cultural, and genetic practices aimed at preventing economic pest damage. Application of this product should be based on IPM principles and practices including field scouting or other detection methods, correct target pest identification, population monitoring, and treating when disease forecasting models reach locally determined action levels. Consult your state cooperative extension service, professional consultants, or other qualified authorities to determine the appropriate management, cultural practice and treatment threshold levels for the specific crop, geography and diseases.

## 3.2 Resistance Management

THIABENDAZOLE	GROUP	<b>1</b>	FUNGICIDE
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Fungal pathogens can develop resistance to products with the same mode of action when used repeatedly. Because resistance development cannot be predicted, use of this product should conform to resistance management strategies established for the crop and use area. Consult your local or state agricultural authorities for resistance management strategies that are complementary to those in this label. Resistance management strategies may include alternation and/or tank-mixing with products having different modes of action or limiting the total number of applications per season. Syngenta encourages responsible product stewardship to ensure effective long term control of the fungal diseases on this label.

For additional information on Fungicide Resistance Management:

- Contact Syngenta representatives at 1-800-334-9481



- Contact your local extension specialist or certified crop advisor
- Visit the Fungicide Resistance Action Committee (FRAC) on the web at: <http://www.frac.info>

## 4.0 APPLICATION DIRECTIONS

### 4.1 Methods of Application

**Mushrooms (*Agaricus* spp.) - Dry Bubble (*Verticillium fungicola*), Wet Bubble (*Mycogone pernicioso*), Cobweb (*Dactylium dendroides*) and Green Mold (*Trichoderma* spp.):**

FOR USE AS AN ADMIX WITH MUSHROOM SPAWN GRAINS, MUSHROOM GROWING SUPPLEMENT, AND/OR AS A DRENCH DURING NORMAL WATERING OPERATIONS FOR MUSHROOM GROWING BEDS AT CASING OR BETWEEN BREAKS

**NOTE:** Do not exceed a combined total of 1.07 lb Mertect 60 WP (0.64 lb ai) per 1,000 sq ft of growing media, between the various applications to spawn grains, supplement, and mushrooms. This amount may be used in various treatment regimes. Please refer to the tables below for the rates for the various usage, so that the 1.07 lb Mertect 60 WP per 1,000 sq ft is not exceeded.

**Spawn Grains:** Apply a maximum of 0.29 lb of Mertect 60WP (0.174 lb ai) per 1,000 sq ft. Follow the table below to determine the lb of Mertect 60 WP that can be mixed with the spawn to deliver 0.29 lb of Mertect 60 WP per 1,000 sq ft.

#### Dosage Table for Use on Spawn Grains

Apply the appropriate amount of Mertect 60 WP/8,000 sq ft by mixing with 80-100 lb gypsum, limestone, or chalk and the desired amount of spawn (see table below).

Spawn lb per 8,000 sq ft	Maximum lb Mertect 60 WP per 100 lb spawn
960	0.24
1,040	0.22
1,120	0.20
1,200	0.19
1,280	0.18
1,360	0.17
1,440	0.16

**Mushroom Supplements:** A finished batch of mushroom supplement can contain up to 0.1% thiabendazole (by weight). The thiabendazole added to the supplement must be included as part of the maximum total of 1.07 lb Mertect 60 WP (0.64 lb ai) per 1,000 sq ft per crop. The total amount of Mertect 60 WP that can be applied from all

treatments per crop is dependent on the amount of supplement applied. Use the table below to determine the remaining Mertect 60 WP that can be applied per crop.

### Remaining Amount of Mertect 60 WP that can be Applied Based on the Supplement and Spawn Treatments

Supplement* lb per 8,000 sq ft	Mertect 60 WP (lb) remaining that may be applied to mushrooms per 1000 sq ft*	Mertect 60 WP (lb) remaining that may be applied to mushrooms, supplement, casing, pinning or breaks if a spawn treatment was also applied per 1000 sq ft**
800	0.903	0.613
1,200	0.820	0.530
1,400	0.778	0.488
1,800	0.695	0.405
2,200	0.612	0.322
2,400	0.570	0.280

\*Assumes at maximum rate of 0.1% (w/w) thiabendazole applied as a supplement.

\*\*Assumes spawn treatment applied at maximum rate of 0.29 lb Mertect 60 WP per 1000 sq ft.

**Note:** If you are unsure if the mushroom supplement that you are using contains thiabendazole, contact the manufacturer of the mushroom supplement.

### Applying Mertect 60 WP at Casing, Pinning or Breaks

- Apply Mertect 60 WP as a preventive treatment at casing, pinning or breaks.
- Casing Applications: Apply no more than 0.43 lb Mertect 60 WP (0.258 lb ai) in 25 gallons of water per 1,000 sq ft. Mertect 60 WP may be applied at casing as a surface drench during normal watering operations.
- At Pinning or Breaks: Apply no more than 0.21 lb Mertect 60 WP (0.126 lb ai) in 25 gallons of water per 1,000 sq ft. Mertect 60 WP may be applied as a surface drench during normal watering operations. The minimal retreatment interval is 5 days.

## 5.0 RESTRICTIONS AND PRECAUTIONS

### 5.1 Use Restrictions

- The amount added for supplement treatment must be deducted from the total remaining amount that can be applied to mushrooms. **Do not exceed** 1.07 lb Mertect 60 WP (0.64 lb ai) per 1,000 sq ft per crop.
- Applying to Mushrooms: Refer to the tables above for the amount of Mertect 60 WP used in any spawn grain or supplement treatments before applying Mertect

60WP to the mushrooms, to ensure that 1.07 lb Mertect 60 WP (0.64 lb ai) per 1,000 sq ft is not exceeded.

- **DO NOT** apply within 12 hours prior to harvest.
- **DO NOT** apply this product using mechanically-pressurized handgun equipment.

## 6.0 STORAGE AND DISPOSAL

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

#### **Pesticide Storage**

Store in a cool, dry place. Keep container closed when not in use. Always store pesticides in the original container only, away from other pesticides, food, pet food, feed, seed, fertilizers, and veterinary supplies. If a leaky container must be contained within another, mark the outer container to identify the contents. Storage areas must be locked and secure from vandalism, with precautionary signs posted. The storage area must be dry, well-lit, and well-ventilated. Keep pesticide storage areas clean. Clean up any spills promptly. Protect pesticide containers from extreme heat and cold. Store herbicides, insecticides and fungicides in separate areas within the storage unit. Place liquid formulations on lower shelves and dry formulations above. Maintaining a spill kit and fire extinguisher on hand, and having emergency phone numbers posted will allow you to be prepared for emergencies. If spill cleanup PPE is stored nearby, but outside the pesticide storage area, it will be accessible when needed.

#### **Pesticide Disposal**

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

#### **Container Handling [bags]**

Non-refillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

#### **Container Handling [fiber drums with liners]**

Non-refillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then offer for recycling if available or dispose of liner in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities. If drum is contaminated and cannot be reused, dispose of it in the manner required for its liner.

**CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER.**

## 7.0 CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.**

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

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For non-emergency (e.g., current product information), call Syngenta Crop Protection at 1-800-334-9481.
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Manufactured for:  
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