



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

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

Mr. Morris Gaskins  
Albaugh, Inc  
P.O Box 2127  
Valdosta, GA 31604

**MAY 18 2012**

Subject: Two supplemental labels: One for mushroom, mushroom spawns grain and supplement; one for seed treatment of winter and spring wheat  
Submission date: 10/6/2011  
Resubmission date: 3/28/2012  
Product Name: Thiabendazole 4.1 FL AG  
EPA Reg. No. 42750-226  
Decision Number 456705

Dear Registrant:

The two supplemental labels referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended are acceptable providing the following changes are made and final printed labels are submitted within 30 days:

- The supplemental label changes must be incorporated into the master label by 5/18/2015
- Mushroom supplemental label
  - Change expiration date to 5/18/2015
  - Add left and right quotation marks to delineate the start and end of seed tag wording e.g.; "this seed has been ...store away from feed and food."
- Seed treatment supplemental label
  - Change expiration date to 5/18/2015

One copy of the label stamped "Accepted with comments" is enclosed for your records. This label supersedes all labels previously accepted for this product. Please submit one copy of the final printed label that incorporates the required changes before the product is released for shipment.

If you have questions concerning this letter, please call Banza Djapao at 703-305-7269 or via email at [djapao.banza@epa.gov](mailto:djapao.banza@epa.gov), or you may call me at 703-308-9443.



Sincerely,

*Bonza Djamao Per*

Tony Kish  
Product Manager 22  
Fungicide Branch  
Registration Division (7504P)



ACCEPTED  
with COMMENTS  
In EPA Letter Dated

MAY 18 2012  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
42750-226

THIABENDAZOLE 4.1 FL AG  
Fungicide

EPA Reg. No. 42750-226

SUPPLEMENTAL PRODUCT LABEL

THIS SUPPLEMENTAL LABEL EXPIRES ON 2/1/2015 AND  
MUST NOT BE USED OR DISTRIBUTED AFTER THIS DATE

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

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use on product container labeling.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. 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 by cleaning of equipment or disposal of waste.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during clean-up procedures and disposal of wastes.

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.

Unless otherwise directed in supplemental labeling, all applicable directions, restrictions, precautions and Conditions of Sale and Warranty are to be followed.

This labeling must be in the user's possession during application.

MUSHROOMS (Agaricus spp.)

Dry Bubble (Verticillium fungicola), Wet Bubble (Mycogone pernkiosa), Cobweb (Dactyliusn dendroides) and Green Mold (Trichoderma spp ):



NOTE: A total amount of 20 fl. oz. of THIABENDAZOLE 4.1 FL AG per 1,000 sq. ft. is allowed. This amount may be used in various treatment regimes. Refer to the tables below for the rates for the various usage so that the 20 fl. oz. per 1,000 sq. ft. is not exceeded.

**Spawn Grains:**

Apply a maximum of 5.4 fl. oz. of THIABENDAZOLE 4.1 FL AG per 1,000 square feet. Follow the table below to determine the fl. oz. of THIABENDAZOLE 4.1 FL AG that can be mixed with the spawn to deliver 5.4 fl. oz. per 1,000 sq. ft.

Dosage Table for Use on Spawn Grains

Do not apply THIABENDAZOLE 4.1 FL AG to gypsum, limestone, or chalk. Admix THIABENDAZOLE 4.1 FL AG directly onto spawn grain.

| Pounds of Spawn per 8,000 sq. ft. | Maximum fl. oz. THIABENDAZOLE 4.1 FL AG per 100 pounds spawn |
|-----------------------------------|--|
| 960                               | 4.5  |
| 1040                              | 4.1  |
| 1120                              | 3.8  |
| 1200                              | 3.6  |
| 1280                              | 3.4  |
| 1360                              | 3.2  |
| 1440                              | 3.0  |

**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 total of the 20 fl. oz. of THIABENDAZOLE 4.1 FL AG allowed per 1,000 sq. ft. per crop. The total amount of THIABENDAZOLE 4.1 FL AG 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 volume of THIABENDAZOLE 4.1 FL AG that can be applied per crop.

| Lbs supplement* Per 8,000 sq. ft. | Fl. oz. of THIABENDAZOLE 4.1 FL AG remaining that may be applied to mushrooms, supplement, casing, or other timing. | Fl. oz. of THIABENDAZOLE 4.1 FL AG remaining that may be applied to mushrooms, supplement, casing, or other timing if a spawn treatment was also applied. |
|-----------------------------------|---|---|
| 800                               | 17  | 11.6  |
| 1200                              | 15  | 9.6   |
| 1400                              | 14.5  | 9.1   |
| 1800                              | 13  | 7.6   |
| 2200                              | 11  | 5.6   |
| 2400                              | 9   | 3.6   |

\*Assumes at maximum rate of 0.1 % thiabendazole

The amount added for for supplemental treatment must be deducted from the total remaining amount that can be applied to mushrooms so as not to exceed 20 fl. oz. per 1,000 sq. ft. per crop.

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



**Applying to Mushrooms:**

Refer to the tables above for the amount of THIABENDAZOLE 4.1 FL AG used in any spawn grain or supplemental treatments before applying THIABENDAZOLE 4.1 FL AG to the mushrooms to ensure that 20 fl. oz. per 1,000 sq. ft. is not exceeded.

**Casing Applications:**

Apply no more than 8 fl. oz. THIABENDAZOLE 4.1 FL AG per 1,000 sq. ft. THIABENDAZOLE 4.1 FL AG may be applied at casing as a drench during normal watering operations.

**Other Timings:**

Apply no more than 4 fl. oz. THIABENDAZOLE 4.1 FL AG per 1,000 sq. ft.

Do not apply within 12 hours prior to harvest.

MANUFACTURED FOR:  
Albaugh, Inc.  
Ankeny, IA 50021



ACCEPTED  
with COMMENTS  
In EPA Letter Dated  
**MAY 18 2012**  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
49750-226

# THIABENDAZOLE 4.1 FL AG

Fungicide

EPA Reg. No. 42750-226

## SUPPLEMENTAL PRODUCT LABEL

THIS SUPPLEMENTAL LABEL EXPIRES ON 3/1/2015 AND  
MUST NOT BE USED OR DISTRIBUTED AFTER THIS DATE

### SEED TREATMENT FOR WINTER AND SPRING WHEAT

KEEP OUT OF REACH OF CHILDREN

## CAUTION

See additional precautionary statements and directions for use on product container labeling.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. 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 by cleaning of equipment or disposal of waste.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during clean-up procedures and disposal of wastes.

### 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.

Unless otherwise directed in supplemental labeling, all applicable directions, restrictions, precautions and Conditions of Sale and Warranty are to be followed.

This labeling must be in the user's possession during application.

SEED LABELING - Seed treated commercially or for sale must be dyed an unnatural color using an EPA approved dye before being sold.

LABELING OF TREATED SEED - Seed treated commercially or for sale with THIABENDAZOLE 4.1 FL AG must be labeled in accordance with all applicable requirements of the Federal Seed Act. All bags containing treated seed must be labeled or tagged as follows:

- This seed has been treated with thiabendazole.
- Do not use for feed, food or oil processing.
- Store away from feed and food.



GENERAL - THIABENDAZOLE 4.1 FL AG is a systemic fungicide especially formulated as a liquid suspension seed protectant for use as a spray mist or slurry seed treatment.

COMPATIBILITY - THIABENDAZOLE 4.1 FL AG should not be tank mixed with any pesticide unless adequate physical compatibility and phytotoxicity tests have been completed and proved to be satisfactory.

USE PRECAUTION - When using formulations that do not contain dye, to comply with 40 CFR 153.155, all seed treated with an economic poison must be colored to distinguish and prevent subsequent inadvertent use as a food for man or feed for animals.

SEED TREATMENT - Clean seed treatment equipment thoroughly before using THIABENDAZOLE 4.1 FL AG. This product has no vapor action; therefore, it is essential that thorough coverage of the seed be obtained. In this regard,

Disperse THIABENDAZOLE 4.1 FL AG with water to aid distribution on the seed. When dispersed with water, however, the resulting suspension must be kept under constant agitation.

THIABENDAZOLE 4.1 FL AG is recommended for the control of seed- and soil-borne Common Bunt (Stinking Smut) attacking wheat; also aids in control of Dwarf Bunt.

WINTER AND SPRING WHEAT

Control of seed- and soilborne Common Bunt (Stinking Smut): For ready mix or slurry seed treaters, disperse 1.3 fl. oz. of THIABENDAZOLE 4.1 FL AG for seedborne Common Bunt, or 2.6 fl. oz. per 100 lbs. of seed for soilborne Common Bunt, in an equal amount of water (1:1 ratio) and apply this dispersion per bushel. Keep dispersion under constant agitation.

For wheat seed having high infection levels of seedborne Fusarium scab, a lower rate of .17 fl. oz. per 100 lbs. of seed is recommended. THIABENDAZOLE 4.1 FL AG should be used as a co-fungicide combined with RAXIL- or VITAVAX-based fungicides to include seed and seedling protection against the broad spectrum of diseases associated with the wheat crop, as listed on the product labels.

Winter Wheat Only:

Aids in control of Dwarf Bunt in Colorado, Idaho, Montana, Oregon, Washington, Wyoming, and Utah: For ready mix or slurry seed treaters, disperse 2.6 – 3.9 fl. oz. of THIABENDAZOLE 4.1 FL AG in an equal amount of water (1:1 ratio) and apply this selected dispersion per 100 lbs. of seed. Keep dispersion under constant agitation. For best results against Dwarf Bunt, plant winter wheat treated with THIABENDAZOLE 4.1 FL AG as late in the growing season as is practical. Use only on normal or late winter wheat plantings. Use the lower rate for late plantings of winter wheat. The level of product effectiveness will vary with the weather conditions and amount of plant growth which occurs prior to the disease infection period.

MANUFACTURED FOR:  
Albaugh, Inc.  
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