



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

February 12, 2018

Morris Gaskins  
Director Product Registrations  
Albaugh, LLC  
PO Box 2127  
Valdosta, GA 31604

Subject: Label Amendment: Page 1: Adds "by mouth" to First Aid section; Reformats legume seed treatment directions; Adds me-too uses for peas/beans from 100-889 approved 9/28/2016; Changes "season." to "year"  
Product Name: Thiabendazole 4.1 FL AG  
EPA Registration Number: 42750-226  
Application Date: August 16, 2017  
Decision Number: 532731

Dear Mr. Morris:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

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.

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Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Tony Kish by phone at 703 308-9443, or via email at [kish.tony@epa.gov](mailto:kish.tony@epa.gov); or Craig Reeves by phone at 703 347-0486, or via email at [reeves.craig@epa.gov](mailto:reeves.craig@epa.gov).

Sincerely,

A handwritten signature in black ink that reads "Tony Kish". The signature is written in a cursive style with a large, stylized "T" and "K".

Tony Kish, Product Manager 22  
Fungicide Branch  
Registration Division (7505P)  
Office of Pesticide Programs

Enclosure: Stamped Label

**ACCEPTED**

Feb 12, 2018

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

**ACTIVE INGREDIENT:**

Thiabendazole: 2-(4-thiazolyl)benzimidazole\* ..... 42.3%

**OTHER INGREDIENTS:** ..... 57.7%

**TOTAL:** ..... 100.0%

4.0 lbs. active ingredient per gallon.

**KEEP OUT OF REACH OF CHILDREN.**

**CAUTION**

See additional precautionary statements and directions for use inside booklet.

FIRST AID	
IF SWALLOWED	<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 do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
IF IN EYES	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• 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>
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
HOT LINE NUMBER - For 24 Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-424-9300	

EPA Reg. No. 42750-226

EPA Est. xxxxxx-xx-xxx

NET CONTENTS: \_\_\_\_\_

MANUFACTURED FOR:  
Albaugh, LLC  
Ankeny, IA 50021

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

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

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt
- Long pants
- Shoes plus socks

In addition to the above, handlers making application to mushroom houses using hand held sprayers must wear chemical resistant gloves.

Follow 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 pesticides get inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

#### 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.

NOT FOR USE IN FORMULATING AGRICULTURAL PESTICIDES.

#### 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.

Manual seed treatments are prohibited.

## 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.

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

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR DISEASE CONTROL, AND/OR ILLEGAL RESIDUES,

## GENERAL INFORMATION

THIABENDAZOLE 4.1 FL AG is a systemic fungicide which aids in the control of many important plant diseases. If treatment is not effective following use of THIABENDAZOLE 4.1 FL AG as recommended, a tolerant strain of fungus may be present. Consideration should be given to prompt use of other suitable non-benzimidazole fungicides. THIABENDAZOLE 4.1 FL AG is not for use in formulating agricultural products.

## CROP USE DIRECTIONS

GENERAL - SHAKE OR STIR WELL BEFORE USE.

Clean equipment before using THIABENDAZOLE 4.1 FL AG. When THIABENDAZOLE 4.1 FL AG is dispersed in water, the resulting suspension must be constantly agitated. Avoid foaming.

Use the higher recommended rates under conditions of heavier disease pressure for citrus sprays and soybean treatments.

Compatibility information for THIABENDAZOLE 4.1 FL AG 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 41 fl. oz. of THIABENDAZOLE 4.1 FL AG per 100 gals. of water. Replenish the suspension when the volume is too low or when it becomes dirty.

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

CITRUS (One Application Only) –

Blue mold (*Penicillium digitatum*), Green mold (*Penicillium italicum*), and stem end rot (*Diplodia natalensis*): Dip, flood, or spray harvested fruit with a suspension of product in water, wax/oil emulsion, or aqueous dilution of a wax/oil emulsion. Rate will vary according to application method; please refer to the following for specific rates for citrus blue mold control.

Citrus Bin Dips, Floods and Drenches

Use 26 fl. oz. of product in 100 gallons of water to provide 1,000 ppm TBZ. Citrus must be drenched for three (3) minutes. Use one (1) gallon of diluted mixture per 1,500 - 2,000 lbs. citrus or 100 gallons of diluted mixture for about 30 bins. Avoid excessive foaming, use antifoam if needed.

Citrus Sprays

Use 52 – 91 fl. oz. product in 100 gallons of water, wax/oil emulsions, or an aqueous dilution of wax/oil emulsion to provide 2,000 - 3,500 ppm of TBZ. Keep the mixture under constant agitation. Apply at a rate of one gallon per 8,000-10,000 lbs. citrus fruit.

For sporulation control, apply 130 fl. oz. of product in 100 gal of water, wax/oil emulsion, or aqueous dilution of a wax/oil emulsion to provide 5000 ppm of thiabendazole. Apply at a rate of one gallon of diluted mixture per 8,000 - 10,000 lbs citrus fruit.

MUSHROOMS (*Agaricus* spp.) –

Dry Bubble (*Verticillium fungicola*), Wet Bubble (*Mycogone perniciosa*), Cobweb (*Dactylius dendroides*) and Green Mold (*Trichoderma* spp):

Addition to mushroom supplements –

To a finished batch of mushroom supplement, add up to 0.1% active ingredient (by weight) of THIABENDAZOLE 4.1 FL AG.

Applying to mushrooms –

Apply THIABENDAZOLE 4.1 FL AG as a drench during normal watering operations. Apply at spawning, casting, and between breaks. Up to 8 fl. oz./1,000 sq. ft can be applied at casting while a maximum of 4 fl. oz./1,000 sq. ft. can be applied at the other timings. Do not apply more than 20 fl. oz./1,000 sq. ft. of THIABENDAZOLE 4.1 FL AG per crop unless a supplement containing THIABENDAZOLE 4.1 FL AG has been used. If the supplement contains thiabendazole, refer to table below for maximum amount that can be applied to a crop. Do not apply within 12 hours prior to harvest.

Lbs supplement* Per 8,000 sq. ft.	Maximum amount of THIABENDAZOLE 4.1 FL AG per 1,000 sq. ft. per crop (fl. oz.)
800	17
1200	15
1400	14.5
1800	13
2200	11
2400	9

\*Assumes at maximum rate of 0.1 % thiabendazole

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

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: 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 various usage rates 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 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.

#### 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 THIABENDAZOLE 4.1 FL AG 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 becomes dirty, (2) after using five times, or (3) after 24 hours, whichever occurs first.

Fusarium (Bulbs and Corms): Dip bulbs 15-30 minutes, corms 15 minutes.

Blue Mold (Bulbs): Dip 10-15 minutes.

After treatment, dry bulbs or corms in a shaded, well-ventilated area. Curing or retarding may precede or follow treatment.

#### POTATO –

Fusarium Tuber Rot: Mist unwashed tubers on a conveyor line, with tumbling action, entering storage with 0.42 fl. oz. of THIABENDAZOLE 4.1 FL AG to each 2,000 Lbs. of tubers in sufficient water for complete coverage. If an additional treatment is necessary before shipping, mist the tubers at the same rate or dip the tubers for 20 seconds in a solution containing 0.42 fl. oz. of THIABENDAZOLE 4.1 FL AG per gallon of water. Do not treat seed potatoes after cutting.

THIABENDAZOLE 4.1 FL AG for potatoes should be used as part of an Integrated Management Program, which includes prevention of bruising during harvest and maintaining proper storage temperature and relative humidity. Neither cultural practices nor chemical measures will prevent Fusarium infection if potatoes are damaged or improperly stored.



## POME FRUIT (Apples and Pears) –

Blue Mold Rot, Bull's Eye Rot, and Gray Mold (Nest Rot, Cluster Rot), Stem End and Neck Rot: Dip, flood, or spray harvested fruit with a suspension of 16 fl. oz. of THIABENDAZOLE 4.1 FL AG in 100 gals, of water. Do not treat for over 3 minutes. Treat apples before and after storage for maximum decay control. Treat pears only once.

## SWEET POTATO "Seed Roots" –

Black Rot, Scurf, and Foot Rot: Dip the seed roots in a suspension containing 8 fl. oz. of THIABENDAZOLE 4.1 FL AG per 7.5 gals, of water (107 fl. oz. per 100 gals.). Treat the seed roots for 1-2 minutes and plant immediately. Discard the suspension when the volume is too low or when it becomes dirty. Do not use the treated roots for food or feed.

## SEED TREATMENT

**Treated seed, granules, exposed on soil surface may be hazardous to wildlife. Cover or collect seeds, granules spilled during loading.**

### SEED TREATMENT

Treatment of highly mechanically scarred or damaged seed, or seed known to be of low vigor and poor quality, except for the purpose of curative control of existing disease pests, may result in reduced germination and/or reduction of seed and seedling vigor. Treat using equipment similar to that planned for treating the total seed lot. Conduct germination tests on a small portion of seed before committing the total seed lot to a selected seed treatment. Due to seed quality and seed storage conditions beyond the control of Albaugh, no claims are made to guarantee the germination of carry-over seed or propagating material for all crop seed.

Seed treatment with THIABENDAZOLE 4.1 FL AG fungicide will not provide post-emergence protection of plants grown in or near infected fields.

For protection against other seed and soil-borne diseases not controlled by THIABENDAZOLE 4.1 FL AG, it is highly recommended that a compatible seed treatment fungicide be used at EPA registered label rates and tank mixed in combination with THIABENDAZOLE 4.1 FL AG. These fungicides must show safety on treated seed, alone or in combination with THIABENDAZOLE 4.1 FL AG. Consult the label for appropriate use rates and follow all use instructions.

### Mixing Procedures

Apply THIABENDAZOLE 4.1 FL AG as a water-based slurry utilizing standard slurry seed treatment equipment which provides uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of disease control. Thoroughly mix the recommended amount of THIABENDAZOLE 4.1 FL AG into the required amount of water for the slurry treater and dilution rate to be used. Follow the manufacturer application instructions for the seed treatment equipment being used. Maintain constant agitation of the slurry during the treatment. Allow seed to dry before bagging.

### Tank Mixtures

Confirm physical compatibility, seed safety, seed safety in stored seed, and biological efficacy before tank mixing with other seed treatment products.

Follow the label directions for the most restrictive of label precautions and limitations. This product cannot be mixed with any product containing a label prohibiting such mixing.

## SEED BAG LABEL REQUIREMENTS

Federal law requires that bags containing treated seed shall be labeled with the following information:

- This seed has been treated with thiabendazole fungicide.
- Do not use for feed, food, or oil purposes.

In addition, include the following statements on bags containing seeds treated with THIABENDAZOLE 4.1 FL AG:

- Store treated seed away from food and feedstuffs.
- Do not allow children, pets or livestock to have access to treated seeds.
- Wear long pants, long-sleeved shirt and protective gloves when handling treated seed.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading and planting.
- Dispose of all excess treated seed.
- Leftover treated seed may be double sown around the headland or buried away from water sources in accordance with local requirements.
- Do not contaminate bodies of water when disposing of planting equipment wash water.
- This pesticide is toxic to fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff may be hazardous to aquatic organisms in water adjacent to treated areas.
- Contain any product spills or equipment leaks and dispose of wastes according to the disposal instructions on this label.
- Dispose of seed packaging or containers in accordance with local requirements.
- Do not plant any crop, other than soybeans, dry peas, barley, wheat, oats, rye, and triticale, brassica head and stem subgroup 5A, cucurbit vegetable cropgroup 9, root vegetables (except sugarbeets) subgroup 1B, bulb vegetables subgroup 3-07A, spinach and alfalfa, within 30 days to fields in which treated seeds were planted.
- Use crop-specific seeding rates according to local agricultural practice.
- Regardless of type of application, do not apply more than 0.15 lb thiabendazole per acre (68.0 grams ai/A) per year. This seed has been treated with xx mg active ingredients (ai) of Thiabendazole/seed.

Use an EPA-approved dye or colorant that imparts an unnatural color to the seed as required in 40 CFR 153.155 (c). Do not feed vines or hay grown from treated seed to livestock.

Crop	Target Diseases	Use Rate Mg ai/seed	Use Rate fl. oz. product/ 100 lb seed	Remarks
Cereals, small grain Barley	Seedling diseases caused by <i>Fusarium</i> spp.	0.03	2.6	fl. oz. product/100 lbs seed calculations assume an average seed size of 12,500 seeds/lb
Oats	Seedling diseases caused by <i>Fusarium</i> spp.	0.03	3.4	fl. oz. product/100 lbs seed calculations assume an average seed size of 16,400 seeds/lb
Rye	Seedling diseases caused by <i>Fusarium</i> spp.	0.03	3.2	fl. oz. product/100 lbs seed calculations assume an average seed size of 15,600 seeds/lb
Triticale	Seedling diseases caused by <i>Fusarium</i> spp.	0.03	2.6	fl. oz. product/100 lbs seed calculations assume an average seed size of 12,750 seeds/lb
Wheat, Winter and	Seed-Borne <i>Fusarium</i> Scab only	0.0016	0.17	fl. oz. product/100 lbs seed calculations assume an average

Crop	Target Diseases	Use Rate Mg ai/seed	Use Rate fl. oz. product/ 100 lb seed	Remarks
Spring				seed size of 15,000 seeds/lb For best control of seed-borne Fusarium scab THIABENDAZOLE 4.1 FL AG should be combined with another product with seed-borne Fusarium activity.
	Seed-Borne Common Bunt (Stinking Smut)	0.013	1.3	fl. oz. product/100 lbs seed calculations assume an average seed size of 15,000 seeds/lb
	Soil-Borne Common Bunt (Stinking Smut)	0.025	2.6	fl. oz. product/100 lbs seed calculations assume an average seed size of 15,000 seeds/lb
Winter Wheat Only	Dwarf Bunt Not for Use in California	0.025 - 0.039	2.6 - 3.9	For normal or late winter wheat plantings. Use the lower rate on late winter wheat plantings only. For best control of Dwarf Bunt THIABENDAZOLE 4.1 FL AG should be combined with a pre-mix product containing difenoconazole.

Crop	Target Diseases	Use Rate (mg active ingredient per kernel*)	Use Rate (fl. oz./80,000 kernel count)	Remarks
Corn Field Pop Sweet (includes seed production) Not for Use in California	Seed-borne and soil-borne fungi causing decay, damping off, and seedling blight.  Seed-borne head smut ( <i>Sporisorium reilianum</i> )  Seedling damping off ( <i>Rhizoctonia</i> spp., <i>Penicillium</i> spp., <i>Pythium</i> spp and <i>Fusarium</i> spp.)	0.043 - 0.057 mg	0.30 - 0.41	*Target rate is 0.05 mg active ingredient per kernel.  Treated sweet corn should be planted and not carried over to the following year.

Crop	Target Diseases	Use Rate mg Ai/seed	Use Rate Fl. Oz. product/100 lb. seed (g ai/100 kg)
<p>Legume Vegetables (Succulent or Dried) Crop Group 6<sup>1</sup></p> <p>BEANS</p> <p>Bean (<i>Lupinus</i> spp.): includes grain lupin, sweet lupin, white lupin and white sweet lupin</p> <p>Bean (<i>Phaseolus</i> spp.): includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean and wax bean</p> <p>Bean (<i>Vigna</i> spp.): includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean and yardlong bean</p> <p>Broad bean (fava bean) (<i>Vicia faba</i>)  Guar (<i>Cyamopsis tetragonoloba</i>)  Jackbean (<i>Canavalia ensiformis</i>)  Lablab bean (hyacinth bean) (<i>Lablab purpureus</i>)</p> <p>Sword bean (<i>Canavalia gladiata</i>)</p>	<p>Seed-borne <i>Ascochyta</i> and <i>Phoma</i> spp. which cause Ascochyta Blight (foot rot, basal stem rot or black stem)<sup>2</sup></p> <p>Seed decay, seedling wilt, and damping-off caused by <i>Phomopsis</i> spp.</p> <p>Seedling diseases caused by <i>Fusarium</i> spp.</p>	0.035 – 0.200	0.30 – 1.72 <sup>4</sup> (10 – 55)
<p>CHICKPEA</p> <p>Chickpea (Garbanzo Bean) (<i>Cicer arietinum</i>)</p>	<p>Seed-borne <i>Ascochyta</i> and <i>Phoma</i> spp. which cause Ascochyta Blight (foot rot, basal stem rot or black stem)<sup>2</sup></p> <p>Seedling diseases caused by <i>Fusarium</i> spp.</p>	0.237	2.04 <sup>4</sup> (65)
<p>LENTIL</p> <p>Lentil (<i>Lens esculenta</i>)</p>	<p>Seed-borne <i>Ascochyta</i> and <i>Phoma</i> spp. which cause Ascochyta Blight (foot rot, basal stem rot or black stem)<sup>2</sup></p> <p>Seedling diseases caused by <i>Fusarium</i> spp.</p>	0.014	1.05 <sup>4</sup> (34)
<p>PEAS<sup>3</sup></p>	<p>Seed-borne <i>Ascochyta</i> and <i>Phoma</i> spp. which cause</p>	0.077	1.02 <sup>4</sup> (33)

Crop	Target Diseases	Use Rate mg Ai/seed	Use Rate Fl. Oz. product/100 lb. seed (g ai/100 kg)
Pea ( <i>Pisum</i> spp.): includes dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea and sugar snap pea  Pigeon Pea ( <i>Cajanus cajan</i> )	Ascochyta Blight (foot rot, basal stem rot or black stem) <sup>2</sup>  Seedling diseases caused by <i>Fusarium</i> spp.		
<p>1. Untreated foliage of legume vegetables from seeds treated with this product are covered by an EPA tolerance.</p> <p>2. Will not control disease in aerial portions of the plant after emergence due to infection from such as soil or wind. For best results against Ascochyta blight, plant legume vegetable seeds treated with THIABENDAZOLE 4.1 FL AG fungicide as late in the spring as possible.</p> <p>3. For Export Use on Peas: THIABENDAZOLE 4.1 FL AG may be mixed with other registered seed treatment products in accordance with the importing nation's phytosanitary requirements. Treated seeds must be labeled: "For Export Only – Not to be Sold or Offered for Sale in the United States."</p> <p>4. Conversion from mg ai/seed are based on 1,250 bean seeds per pound, 1,250 chickpea seeds per pound, 10,600 lentil seeds per pound, and 1,930 pea seeds per pound. If the size of the seed to be treated differs greatly from these numbers use the mg ai/seed rate to calculate the fl. oz./100 lb of seed to be applied.</p>			

Crop	Target Diseases	Use Rate Mg ai/seed	Use Rate fl. oz. product/ 100 lb seed	Remarks
Soybeans  Not for Use in California	Pod and stem blight (Phomopsis spp.)	0.0038-0.0076	0.08 - 0.16	For protection against other seed and soil-borne diseases, it is recommended that a co-fungicide such as metalaxyl, be used at EPA registered label rates and tank mixed in combination with THIABENDAZOLE 4.1 FL AG.
	Fusarium spp.	0.0076 - 0.0302	0.16 - 0.64	
	Nematodes (rootknot, reniform and soybean cyst)	0.0302	0.64	

#### RESTRICTIONS AND LIMITATIONS

- Maximum one application per year.
- This product must not be tank mixed with any pesticide unless physical compatibility and phytotoxicity tests have been completed and proved to be satisfactory.
- Regardless of type of application, do not apply more than 0.15 lb thiabendazole per acre (68.0 grams ai/A) per year.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

**PESTICIDE STORAGE:** Store THIABENDAZOLE 4.1 FL AG in a cool, dry place away from food, drink, and animal feeding stuffs. Do not store below 32°F (0°C). Repeated product freezing and thawing should be avoided. Shake or stir product before use.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility in accordance with Federal, State or local procedures under the Resource Conservation and Recovery Act.

### CONTAINER HANDLING:

Non-refillable containers (1, 2.5, & 30 gallon): Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

(non-refillable <5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

(non-refillable >5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use for disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**REFILLABLE CONTAINER (>250 gallon):** Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

To clean the container before final disposal, empty the remaining contents from the container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing process two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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

## CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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 ALBAUGH or Seller. To the extent permitted by applicable law. Buyer and User agree to hold ALBAUGH and Seller harmless for any claims relating to such factors.

ALBAUGH 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 ALBAUGH, and, (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, ALBAUGH 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 ALBAUGH 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 ALBAUGH 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 ALBAUGH OR SELLER, THE REPLACEMENT OF THE PRODUCT.

ALBAUGH 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 ALBAUGH.