



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

April 15, 2022

Tasha Lott  
Product Registration Manager  
Albaugh, LLC  
1525 NE 36<sup>th</sup> Street  
Ankeny, IA 50021

Subject: Registration Review Label Mitigation for Metalaxyl and Azoxystrobin  
Product Name: ST Pre-Mix #3  
EPA Registration Number: 42750-325  
Application Dates: 6/22/2018; 7/26/2021  
Decision Numbers: 583095; 583096

Dear Ms. Lott:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Metalaxyl and Azoxystrobin Interim Decisions, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

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.

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 12 months from the date of this letter. After 12 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.

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If you have any questions about this letter, please contact Darius Stanton by phone at 202-566-2332, or via email at [stanton.darius@epa.gov](mailto:stanton.darius@epa.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read 'Linda Arrington', with a stylized flourish at the end.

Linda Arrington, Branch Chief  
Risk Management and Implementation Branch 4  
Pesticide Re-Evaluation Division  
Office of Pesticide Programs

Enclosure

METALAXYL	GROUP	4	FUNGICIDE
AZOXYSTROBIN	GROUP	11	FUNGICIDE
THIABENDAZOLE	GROUP	1	FUNGICIDE

### ST PRE-MIX #3

Broad-spectrum seed treatment fungicide for protection against the specified seed and seed-borne diseases in soybeans, lentils and chickpeas.

**ACTIVE INGREDIENTS:**

Azoxystrobin*	1.15%
Metalaxyl**	9.56%
Thiabendazole***	3.84%
OTHER INGREDIENTS:	<u>85.45%</u>
TOTAL:	100.00%

\* CAS No. 131860-33-8

\*\* CAS No. 57837-19-1

\*\*\*CAS No. 148-79-8

Contains 0.10 pound active ingredient of azoxystrobin, 0.83 pound active ingredient of metalaxyl and 0.33 pound active ingredient thiabendazole per gallon.

KEEP OUT OF REACH OF CHILDREN

### CAUTION

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 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 Emergency Assistance spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300.	

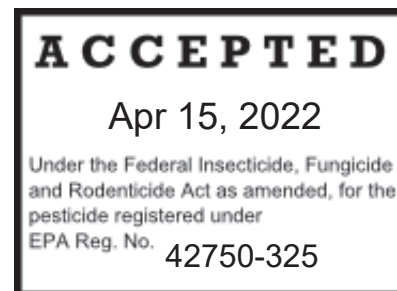
See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 42750-325

EPA Est. No. 42750-MO-002

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

Manufactured By:  
ALBAUGH, LLC  
ANKENY, IA 50021



## PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

### CAUTION

Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material: barrier laminate, butyl rubber 14 mils, natural rubber 14 mils, neoprene rubber 14 mils, nitrile rubber 14 mils, polyethylene, polyvinyl chloride (PVC) 14 mils, or Vitron® 14 mils
- Shoes plus socks

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.

### ENGINEERING CONTROL STATEMENTS

When handlers use closed systems 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

Users should:

1. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
2. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. 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.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to freshwater and estuarine/marine fish and aquatic invertebrates. Do not contaminate water when disposing of equipment washwater or rinsate.

### GROUNDWATER ADVISORY STATEMENT

The active ingredient, azoxystrobin, in this product can be persistent for several months or longer. Azoxystrobin has degradation products which have properties similar to chemicals which are known to leach through soil to groundwater under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow may result in groundwater contamination.

Metalaxyl is known to leach through soil into groundwater under certain conditions as a result of agricultural use. 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, 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 48 hours.

Exception: If the seed is treated with the product and the treated seed 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:

1. Coveralls
2. Chemical-resistant gloves made of any waterproof material: barrier laminate, butyl rubber 14 mils, natural rubber 14 mils, neoprene rubber 14 mils, nitrile rubber 14 mils, polyethylene, polyvinyl chloride (PVC) 14 mils, or Vitron® 14 mils
3. Shoes plus socks

Failure to follow the Directions for Use and Precautions on this label may result in crop injury, poor disease control, or illegal residues.

Treatment of highly mechanically damaged seed, or seed of known low vigor and poor quality, may result in reduced germination and/or reduction of seed and seedling vigor. Treat and conduct germination test on a small portion of seed before committing the total seed lot to a selected chemical treatment. Due to seed-quality conditions beyond the control of Albaugh, LLC, no claims are made to guarantee germination of carry-over seed.

### PRODUCT INFORMATION

ST PRE-MIX #3 is a seed treatment fungicide that protects against damping-off and seed rots due to *Pythium*, *Fusarium*, *Rhizoctona*. ST PRE-MIX #3 also suppresses seed-borne *Sclerotinia* and White Mold (*sclerotium rolfsii*). ST PRE-MIX #3 contains the active ingredient metalaxyl that provides protection against *Pythium* and early season Phytophthora root rot.

## RESISTANCE MANAGEMENT RECOMMENDATIONS

GROUP	1	4	11	FUNGICIDES
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ST PRE-MIX #3 is a systemic fungicide that contains:

- Azoxystrobin, a Group 11 mode of action fungicide that belongs to the methoxyacrylate class of chemistry which interferes with fungal respiration preventing ATP synthesis.
- Metalaxyl, a Group 4 mode of action fungicide that belongs to the phenylamide class of chemistry which interferes with fungal RNA synthesis.
- Thiabendazole, a Group 1 mode of action fungicide that belongs to the benzimidazole class of chemistry which inhibits mitosis which impairs fungal growth and development

Any fungal population may contain individuals naturally resistant to Group 1, Group 4 and Group 11 mode of action fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Because resistance development cannot be predicted, the use of this product should follow appropriate resistance-management strategies. To delay fungicide resistance, use should be based on an IPM program that includes the following steps:

- Rotate the use of ST PRE-MIX #3 or other Group 3 and Group 4 fungicides within a growing season sequence with different groups that control the same pathogens. Avoid application of more than 3 and consecutive applications of ST PRE-MIX #3 or other fungicides in the same group in a season.
- Use tank mixtures with fungicide from a different group that are equally effective on the target pest when such use is permitted. Use at least the minimum application rate as labeled by the manufacturer.
- Adopt an integrated disease management program for fungicide use that includes scouting, uses historical information related to pesticide use, and crop rotation, and which considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide applications. Note that using predictive models alone is not sufficient to manage resistance.
- Monitor treated fungal populations for resistance development.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information or to report suspected resistance contact Albaugh, LLC at 1-800-247-8013. You can also contact your pesticide distributor or university extension specialist to report resistance.

All applications must be made according to the use directions that follow.

## MIXING INSTRUCTIONS FOR SOYBEANS

ST PRE-MIX #3 is formulated as a commercial seed treatment to be used with liquid rhizobia products, using standard mechanical slurry or mist-type seed treatment equipment which accurately measures and mixes a flowable seed treatment. The equipment must provide uniform coverage of ST PRE-MIX #3 on the seed. Uneven seed coverage may not give the desired level of disease control. ST PRE-MIX #3 must be diluted with either water or liquid inoculants prior to application to soybeans. Consult the manufacturer of the application equipment you plan to use for suitability for this application and for instructions on operation and calibration of the equipment.

Do not mix ST PRE-MIX #3 fungicide with other pesticides unless sufficient compatibility, loading rates, and seed and crop safety factors are determined.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

In a clean container large enough to contain the entire mixture add half of the required water or liquid inoculant. Add the desired amount of ST PRE-MIX #3 and mix thoroughly. Add the remaining amount of water or liquid inoculant and mix again. The slurry is ready for application to the soybeans. Mix as needed and do not store diluted mixture.

Additional or continuous agitation or mixing of the slurry mixture may be necessary to prevent the ST PRE-MIX #3 from settling out of solution when using water or liquid inoculants.

ST PRE-MIX #3 has been found to be compatible with some liquid inoculant products. ST PRE-MIX #3 may be mixed or applied sequentially with approved liquid inoculants. Consult the maker of the liquid inoculants and a ALBAUGH, LLC representative for directions before applying ST PRE-MIX #3 with liquid inoculants.

**Special Precaution:**

ST PRE-MIX #3 is formulated to be compatible with some liquid inoculants. If water is used to further dilute ST PRE-MIX #3 when rhizobia are present, use only nonchlorinated water. Chlorinated water will kill the live rhizobia contained in the inoculant.

**MIXING INSTRUCTIONS FOR CHICKPEAS AND LENTILS**

Apply ST PRE-MIX #3 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 protection. Thoroughly mix the specified amount of ST PRE-MIX #3 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.

**CROP USE DIRECTIONS**

Crop	Target Diseases	Use Rate (fl. oz./100 lb seed)
Soybeans	Seed rot, seedling blight, pre and post-emergence damping-off caused by <i>Fusarium</i> spp., <i>Rhizoctonia</i> spp. and <i>Pythium</i> spp. Early season seedling root rot caused by <i>Fusarium</i> spp. Early season <i>Phytophthora</i> spp. Seedling blight and seed rot caused by <i>Phomopsis</i> spp. Suppression of White Mold ( <i>sclerotium rolfsii</i> ) Suppression of seed-borne <i>Sclerotinia</i>	2.5*
Chickpea (garbanzo bean)	Seed rot, seedling blight, pre and post-emergence damping-off caused by <i>Fusarium</i> spp., <i>Rhizoctonia</i> spp. and <i>Pythium</i> spp.	2.5*
Lentils	Seed rot, seedling blight, pre and post-emergence damping-off caused by <i>Fusarium</i> spp., <i>Rhizoctonia</i> spp. and <i>Pythium</i> spp.	2.5*

\*2.5 fluid ounces of ST Pre-Mix #3 contains 0.016 lbs of metalaxyl, 0.002 lbs of azoxystrobin and 0.006 lbs of thiabendazole

active.

Additional thiabendazole fungicide can be added to effectively suppress seed borne *Ascochyta* blight caused by the pathogen *Ascochyta rabiei*. when used according to label directions of a separately registered thiabendazole fungicide product. Additional thiabendazole seed treatment may also be added to minimize the threat of highly infectious diseases and limit spread of residue-borne and wind-borne infection of chickpeas and lentil crops by *Ascochyta* blight.

If the target soybean fields have a history of high *Phytophthora* pressure it is recommended to tank mix with additional metalaxyl seed treatment product registered for use on the same crop according to those label directions. Alternatively, approved liquid rhizobia inoculants at rates recommended by manufacturer to achieve proper total slurry volumes can be used.

RESTRICTION: When applying both metalaxyl- and mefenoxam-containing products to the same crop within the same season:

- Do not apply more than the maximum yearly total application rate for the active ingredient as stated on the label of the product containing the lowest yearly total on that crop.
- DO NOT apply more than 1.0 lbs of metalaxyl active ingredient per acre per year to Lentils or Chickpeas.
- DO NOT apply more than 1.25 lbs of metalaxyl active ingredient per acre per year to Soybeans

#### SEED CONTAINER LABEL REQUIREMENTS

The Federal Seed Act requires that containers of treated seeds shall be labeled with the following statements:

- This seed has been treated with metalaxyl, azoxystobin and thiabendazole fungicides
- Do not use for feed, food, or oil purposes.
- Store treated seed away from food and feedstuffs.

In addition, the U.S. Environmental Protection Agency requires the following statements on containers of seeds treated with ST PRE-MIX #3:

Ground Water Advisory: Metalaxyl is known to leach through soil into groundwater under certain conditions as a result of label use. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

- Do not allow children, pets or livestock to have access to treated seeds.
- All handlers must wear long-sleeved shirts, long pants, shoes, and socks.
- 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 crop group 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.
- Excess treated seed may be used for ethanol production only if:
  1. By-products are not used for livestock feed, and
  2. No measurable residues of pesticide remain in the ethanol by-products that are used in agronomic practice.
- Treated seed must be planted into the soil at a depth greater than 1 inch.

**USE RESTRICTIONS:** 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 with an EPA approved dye such as one of the dyes listed in 40 CFR Sections 180.910 and 180.920 to distinguish and prevent subsequent inadvertent use as a food for man or feed for animals.

Use on potato seed pieces is prohibited.

#### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in original containers only in a cool, dry place. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to the label.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Open dumping is prohibited. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

**CONTAINER HANDLING:** Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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, 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

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

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

ALBAUGH, LLC 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, LLC.

072621

**LABEL HISTORY**

Not Part of Final printed Label

File Name	Version Mark	Comment
042750-00325.20210726.DRAFT	072621	EPA Reg Rev Comment Revisions