



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

November 1, 2019

Carolyn Miter
Registration Specialist
Albaugh, LLC
PO Box 2127
Valdosta, GA 31640-2127

Subject: Registration Review Label Mitigation for Metalaxyl
Product Name: Custom Blend 10ST
EPA Registration Number: 42750-300
Application Dates: 06/25/2018
Decision Numbers: 556225

Dear Ms. Carolyn Miter:

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 Interim Decision, 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 copy of your label stamped "Accepted" is enclosed. Products shipped after 12 months from the date of this amendment must bear the new revised label. Your release for shipment of the product bearing the amended label 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.

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If you have any questions about this letter, please contact Darius Stanton by phone at 703-347-0433, or via email at Stanton.darius@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "Linda Arrington".

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

Enclosure

METALAXYL	GROUP	4	FUNGICIDE
TEBUCONAZOLE	GROUP	3	FUNGICIDE
THIABENDAZOLE	GROUP	1	FUNGICIDE
IMIDACLOPRID	GROUP	4A	INSECTICIDE

CUSTOM BLEND 10ST

SEED PROTECTANT

ACTIVE INGREDIENTS:

Imidacloprid: 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine)	2.65%
Metalaxyl: N-(2,6-dimethylphenyl)-N-(methoxyacetyl)alanine methyl ester	0.59%
Tebuconazole:	
Alpha-[2-(4-chlorophenyl)ethyl]-alpha-(1,1-dimethyl-ethyl)-1H-1,2,4-triazole-1-ethanol.	0.44%
Thiabendazole: 2-(4-thiazolyl)benzimidazole	0.65%
OTHER INGREDIENTS:	95.67%
TOTAL	100.0%

Contains 0.039 pounds tebuconazole per gallon, or 4.68 grams per liter.

Contains 0.052 pounds metalaxyl per gallon, or 6.28 grams per liter.

Contains 0.235 pounds imidacloprid per gallon, or 28.20 grams per liter.

Contains 0.058 pounds thiabendazole per gallon, or 6.92 grams per liter.

KEEP OUT OF REACH OF CHILDREN

CAUTION

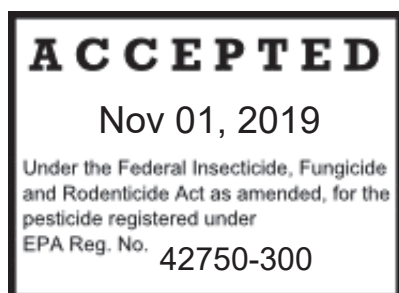
FIRST AID	
IF SWALLOWED:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
Note to Physician: No specific antidote is available. Treat the patient symptomatically.	
HOT LINE NUMBER: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL CHEMTREC® TOLL FREE AT 1-800-424-9300.	

EPA Reg. No. 42750-300

EPA Est. 42750-MO-001

NET CONTENTS: _____ Gallons

Manufactured By:
ALBAUGH, LLC
ANKENY, IA 50021



PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

1. Long-sleeved shirt and long pants
2. Shoes plus socks,
3. Chemical resistant gloves made out of: nitrile rubber >14 mils, butyl rubber >14 mils, neoprene rubber >14 mils, barrier laminate, polyvinyl chloride (PVC) >14 mils or Viton >14 mils.

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)], the handler PPE may be reduced or modified as specified in the WPS.

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

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 clothing.

ENVIRONMENTAL HAZARDS

This product is highly toxic to birds, fish, and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or incorporate spilled treated seeds during loading and planting. Dispose of all excess seed during by burying seed away from bodies of water. Do not contaminate water when disposing of equipment washwater or rinsate or by disposal of wastes.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Ensure that planting equipment is functioning properly in accordance with manufacturing recommendations to minimize seed coat abrasion during planting to reduce dust which can drift to blooming crops or weeds.

Groundwater Advisory: Metalaxyl has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is low.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact you State Water Board or Regional office of the EPA.

PHYSICAL AND CHEMICAL HAZARDS

Do not mix or allow coming in contact with oxidizing agent. Hazardous Chemical reaction may occur.

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 Tribal Agency, consult the State or Tribal agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40CFR 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.

After seeds have been planted, do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

Exception: If the product is soil injected or soil incorporated, the WPS, 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 out of: nitrile rubber ≥ 14 mils, butyl rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, barrier laminate, polyvinyl chloride (PVC) ≥ 14 mils or Viton ≥ 14 mils
3. Shoes plus socks
4. Protective eyewear

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box only apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170) The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

RESTRICTION:

- When applying both metalaxyl-containing 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.
- All seed must be adequately dyed with a suitable colorant to prevent its accidental use as food for man or feed for animals. Refer to 21CFR, part 2.25. Any colorant added to treated seed must be cleared for use under 40 CFR, part 153.155.

USE INFORMATION

CUSTOM BLEND 10ST is a systemic and contact broad-spectrum fungicide plus systemic insecticide for seed treatment that protects against wireworms and a wide variety of specified diseases. CUSTOM BLEND 10ST is effective against the diseases *Fusarium*, *Cochliobolus sativus*, *Pythium*, smuts, bunt and leaf stripe. It is also effective against seed rot fungi such as *Aspergillus* and *Penicillium*.

CUSTOM BLEND 10ST provides suppression of wireworm activity on seed and young seedlings.

Do not use CUSTOM BLEND 10ST in combination with other seed treatment products unless compatibility has been verified. Read and follow carefully all label directions of each combination product. When using combinations of products, the most restrictive of label limitations and precautions must be followed.

Allow seed to dry before bagging.

Manual seed treatments are prohibited.

ALWAYS SHAKE OR STIR WELL BEFORE USE

RESISTANCE MANAGEMENT RECOMMENDATIONS

CUSTOM BLEND 10ST contains three fungicide active ingredients with three distinct fungicide modes of action and one Group 4A neonicotinoid insecticide. Any fungal, insect and mite populations may contain individuals naturally resistant to CUSTOM BLEND 10ST, and other Group 1, Group 3 and Group 4 fungicides. A gradual or total loss of pest control may occur over time if these fungicides, insecticides and arachnides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, such as enhanced metabolism, may also exist.

Appropriate resistance-management strategies should be followed. To delay the development of fungicide resistance:

1. Applications - Adhere to the label use directions regarding the consecutive use of CUSTOM BLEND 10ST fungicide seed treatment or other target site of action Group 1, Group 3 and Group 4 fungicides that have a similar site of action on the same pathogens.
2. Integrated Pest Management (IPM) – Integrate CUSTOM BLEND 10ST into an overall disease and pest management program. Follow cultural practices known to reduce disease development. Consult your local extension specialist, certified crop advisor and/or Albaugh representative for additional IPM strategies established for your area. CUSTOM BLEND 10ST may be used in Agricultural Extension advisory (disease forecasting) programs, which recommend application timing based on environmental factors favorable for disease development.

3. Monitoring - Monitor efficacy of all fungicides used in the disease management program against the targeted pathogen and record other factors that may influence fungicide performance and/or disease development.

4. Reporting - If a Group 1, Group 3, and/or Group 4 target site fungicide, such as CUSTOM BLEND 10ST, appears to be less or no longer effective against a pathogen that it previously controlled or suppressed, contact a Albaugh representative, local extension specialist, or certified crop advisor to assist in determining the cause of reduced performance.

SEED TREATMENT EQUIPMENT

CUSTOM BLEND 10ST may be used both in commercial seed treatment facilities and in on-farm application. DO NOT apply this product as a planter box or hopper box treatment. Apply CUSTOM BLEND 10ST with mechanical, slurry, or mist-type seed treating equipment, provided that the equipment can be calibrated to accurately and uniformly apply the product to seed. Uniform application to seed is necessary to ensure best disease and insect protection and optimum performance. For best activity of this product, seed must be sound and well-cured before treatment.

Refer to the APPLICATION INSTRUCTIONS below for label rates.

In most cases, CUSTOM BLEND 10ST is ready to use and may be applied to seed as is; however, dilution with water may be appropriate for some types of treaters and/or when treating under dry and/or hot conditions, to achieve more uniform product to seed coverage. Mix CUSTOM BLEND 10ST and water thoroughly into a slurry prior to treating seed. Recalibrate treating equipment to compensate for the addition of water. The amount of dilution water that is most suitable depends on the seed, treater type and temperature. Contact your local Albaugh, LLC representative or supplier for specific recommendations.

WHEAT APPLICATION INSTRUCTIONS

Crop	Rate per 100 lbs. seed	Symptoms Controlled	Symptoms Suppressed	Insect Protection
Wheat (Spring and Winter)	5.21* fl. oz.	<p>General seed rots (including those caused by <i>Penicillium</i> and <i>Aspergillus</i>)</p> <p>Damping off and seedling blight (seed- and soil-borne <i>Fusarium</i>, <i>Pythium</i> and <i>Cochliobolus sativus</i>)</p> <p>Loose Smut (<i>Ustilago tritici</i>)</p> <p>Common Bunt (<i>Tilletia cariesj foetida</i>)</p> <p>Early Season Root Rot (<i>Rhizoctonia</i>)</p> <p>Early season Stinking smut, Flag smut & Loose smut</p> <p>Early season Septoria disease complex</p>	<p>Common root rot (<i>Cochliobolus sativus</i>)</p> <p>Crown and Foot Rot (<i>Fusarium</i>)</p> <p>Early season suppression of powdery mildew and wheat leaf rust</p> <p>Yellow Dwarf Virus symptoms and spread.</p>	<p>Early season protection of seedlings against injury by:</p> <p>Aphids (including Bird cherry-oat, English grain, Greenbug, and Russian wheat aphid) (that vector Barley Yellow Dwarf Virus), Wireworms and Hessian fly</p>
NOTES:				

- When high incidence of seed borne fusarium occurs, an additional volume of .08 fl oz/cwt of Thiabendazole 4.1 may be applied for additional disease control and germination increase.

*5.21 fluid ounces of CUSTOM BLEND 10ST contains 0.01 lbs of imidacloprid, 0.002 lbs of metalaxyl, 0.002 lbs of thiabendazole and 0.0016 lbs of tebuconazole active.

USE RESTRICTIONS:

The purchaser of this product is responsible for ensuring that all seed treated with this product are dyed with An EPA approved dye or colorant to prevent its accidental use as food for man or feed for animals.

Refer to 21 CFR, Part 2.25. Any dye or colorant added to treated seed must be cleared for use under 40CFR, Part 153.155(a).

- Do not use treated seed for food, feed or oil purposes.
- Do not apply as a planter box or hopper box treatment.
- Care must be exercised in the handling of treated seed. Augers used for handling treated seed should not be used to move seed for feed, food or oil processing.
- Do not re-use bags from treated seed to handle food or feed products.
- Wheat: Do not graze or feed livestock on treated areas.
- Do not feed vines or hay grown from treated seed to livestock.
- Maximum of one application per season.
- Do not allow children, pets, or livestock to have access to treated seed.
- Do not apply more than 0.5 lb imidacloprid (including seed treatment, foliar, and soil applications) per acre per year.
- Do not apply more than the maximum annual rate for metalaxyl of 12.3 lbs a.i./A per acre per year.

SEED BAG LABEL REQUIREMENTS

Federal regulations have established official tolerances for certain pesticide residues. In order that residues on food and forage crops will not exceed established tolerances, use only at specified rates.

The Federal Seed Act requires that bags containing pesticide treated seeds shall be labeled with the following statements:

- This seed has been treated with an imidacloprid, metalaxyl, tebuconazole, and thiabendazole pesticide. Do not use for feed, food or oil purposes.

In addition, the US EPA requires the following statements on bags containing seeds treated with CUSTOM BLEND 10ST:

- POLLINATOR PRECAUTIONS: Imidacloprid is highly toxic to bees. Ensure that planting equipment is functioning properly in accordance with manufacturer specifications to minimize seed coat abrasion during planting to reduce dust which can drift to blooming crops or weeds.
- Exposed treated seed may be hazardous to birds. Cover or incorporate spilled treated seeds. Excess or leftover seed may be double sown around the headland or buried away from bodies of water in accordance with local requirements.
- Dispose of seed packaging in accordance with local requirements.
- Do not re-use bags from treated seed to handle food or feed products.
- Regardless of the application method do not apply more than 0.5 lb imidacloprid per acre per year.
- This seed has been treated with ___lbs imidacloprid per lb of seed [*or* ___mg imidacloprid per seed].

- 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 pesticides remain in the ethanol by products that are used in agronomic practice.
- Treated seed must not be used for or mixed with food or animal feed or processed for oil.
- Store away from treated foodstuffs.
- Do not feed vines and hay grown from treated seed to livestock.
- Wear long-sleeved shirt, long pants and chemical-resistant 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 buried away from water sources in accordance with local requirements.
- Do not contaminate water bodies when disposing of planting equipment wash waters.
- Do not allow children, pets, or livestock to have access to treated seed.
- Treated seed must be planted into the soil at a depth greater than one inch.
- ***[Rotational Crop Plant-Back Intervals from the product label must be applied to seed bags]***

User is responsible for ensuring that the seed bag meets all requirements under the Federal Seed Act and EPA regulations.

ROTATIONAL CROPS:

Treated areas may be replanted with any crop specified on an imidacloprid label, or any crop for which a tolerance exists for the active ingredient, as soon as practical following the last application. The following plant-back intervals are required for listed crops:

Rotational Plant-Back Intervals*		
	Immediate plant-back	30-DAY PLANT BACK
Artichoke	Oats	Cereals, including: Buckwheat Rice Millet
Barley	Okra	
Brassica (cole) leafy veg.	Pepinos	
Borage	Pepper	
Bulb Veg	Popcorn	
Canola	Potato	
Cilantro	Rapeseed	
Corn, Field	Rye	
Com, Sweet	Safflower	
Cotton	Sorghum	
Cranberry	Soybean	
Crambe	Strawberry	
Cucurbits	Sugarbeet	
Eggplant	Sunflower	
Flax	Tomatillo	
Ground cherry	Tomato	
Leaf petiole veg.	Triticale	
Leafy veg.	Veg. Root and Tuber	
Legume veg. (succulent Or dried, including soybean)	Watercress	
Mustard Seed	Wheat	

* Cover crops for soil building or erosion control may be planted any time, but do not graze or harvest for food or feed.

* For all other crops not listed on an Imidacloprid label, or for crops for which no tolerance for the active ingredient has been established, a 12-month plant-back interval is required.

Notification of the crop rotational restriction must be conveyed to the grower by appropriate seed tag labeling or bag printing on all seed units.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a cool place. Do not store in direct sunlight. Protect from freezing temperatures.

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

CONTAINER DISPOSAL: Non-refillable containers (1, 2.5, 30 & 55 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.

(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 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.

Pressure rinse as follows (all sizes): 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 & bulk): 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.

IMPORTANT NOTICE - Seller warrants that this product conforms to the chemical description and is reasonable fit for the purposes stated on the label only when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, expressed or implied, extends to the use of this product, contrary to label instructions, or under conditions not reasonably foreseeable to seller, and, to the extent consistent with applicable law, the buyer assumes the risk of any such use.

Treatment of highly mechanically 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 and conduct germination tests on a small test sample of seed before treating commercial quantities with a selected chemical treatment. Due to seed quality and seed storage conditions beyond the control of Albaugh, Albaugh makes no claims or guarantees as to germination of carry-over seed.