

# SPECIMEN LABEL

# Agri Star®

MEFENOXAM	GROUP	4	FUNGICIDE
FLUDIOXONIL	GROUP	12	FUNGICIDE

# LEGUMESTAR FUNGICIDE ST

A seed treatment fungicide for control of certain seed-borne, soil-borne, and seedling diseases of soybeans and other legumes.

**ACTIVE INGREDIENTS:**

Fludioxonil: ..... 0.77%  
Mefenoxam: ..... 2.26%

**OTHER INGREDIENTS:** ..... 93.82%  
**TOTAL:** ..... 100.00%

Contains 0.07 lbs fludioxonil and 0.19 lbs mefenoxam per gallon.

EPA Reg. No. 45002-29

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**FIRST AID****IF ON SKIN OR CLOTHING**

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

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.

Manufactured By:

**ALBAUGH, LLC**  
1525 NE 36th Street  
Ankeny, Iowa 50021

**FOR CHEMICAL SPILL, LEAK,  
FIRE, OR EXPOSURE, CALL  
CHEMTREC 1-800-424-9300**



**Albaugh®**  
Your Alternative™

# PRECAUTIONARY STATEMENTS

## HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION.** Avoid contact with skin, eyes, or clothing. Wear long-sleeved shirt and long pants, socks and shoes, and chemical-resistant gloves made of any waterproof material. Wash thoroughly with soap and water after handling.

## PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of: barrier laminate, butyl rubber  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils, nitrile rubber  $\geq$  14 mils, polyvinyl chloride (PVC)  $\geq$  14 mils, or Vitron®  $\geq$  14 mils.
- Shoes plus socks

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

## ENGINEERING CONTROLS

When handlers use closed systems or enclosed cabs 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 thoroughly with soap and water after handling, and 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 fish, aquatic invertebrates, oysters and shrimp. **DO NOT** contaminate water when disposing of equipment washwater or rinsate.

**GROUNDWATER ADVISORY:** Mefenoxam is known to leach through soil into groundwater under certain conditions as a result of label use. Fludioxonil has properties and characteristics associated with chemicals detected in groundwater. These chemicals may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

## PHYSICAL AND CHEMICAL HAZARDS

**DO NOT** mix or allow contact with oxidizing agents. Hazardous chemical reactions may occur.

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Use is permitted on-farm and in commercial seed treatment facilities. **DO NOT** use for at-plant applications (e.g. hopper box, planter box, etc.). This product is to be applied as a water-based slurry through standard slurry- or mist-type commercial seed treatment equipment.

**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 State or Tribal agency responsible for pesticide regulation.

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

## AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on 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, including plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves made of: barrier laminate, butyl rubber  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils, nitrile rubber  $\geq$  14 mils, polyvinyl chloride (PVC)  $\geq$  14 mils, or Vitron®  $\geq$  14 mils.
- Shoes plus socks

Treatment of highly mechanically scarred or damaged seed or seed known to be of low vigor and poor quality may result in reduced germination and/or reduction of seed and seedling vigor. Treat a quantity of seed using equipment similar to that planned for treating the total seed lot. Prior to treatment, conduct germination tests on a portion of seed before committing the total seed lot to a selected seed treatment.

Due to seed quality, crop or variety sensitivity, 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 when treated with this product.

## PRODUCT INFORMATION

This product is a seed treatment fungicide that protects against damping-off and seed rots due to *Pythium*, *Phytophthora*, *Fusarium*, and *Rhizoctonia* spp., and early season *Phytophthora* root rot. This product also suppresses seed-borne *Sclerotinia* and *Phomopsis* spp. especially in soybeans. This product contains the active ingredient mefenoxam that provides protection against *Pythium* and early season *Phytophthora* root rot. This product also contains the active ingredient fludioxonil that provides protection against the remaining diseases mentioned in this label.

## RESISTANCE MANAGEMENT RECOMMENDATIONS

MEFENOXAM	GROUP	4	FUNGICIDE
FLUDIOXONIL	GROUP	12	FUNGICIDE

For resistance management, this product contains mefenoxam, a Group 4 fungicide, and fludioxonil, a Group 12 fungicide. Mefenoxam belongs to the phenylamide class of chemistry which interferes with fungal RNA synthesis. Fludioxonil belongs to the phenylpyrrole class of chemistry which interferes with osmotic signal transduction.

Fungal populations may contain individuals naturally resistant to Group 4 or 12 fungicides and if used repeatedly in the same fields a gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Follow appropriate resistance-management strategies.

To delay fungicide resistance, take one or more of the following steps:

- Rotate the use of this product or other Group 4 fungicides within a growing season sequence with different groups that control the same pathogens. 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 crop and pathogens.
- For further information or to report suspected resistance contact Albaugh, LLC. 1-800-247-8013. You can also contact your pesticide distributor or university extension specialist to report resistance.

## MIXING PROCEDURES

This product is especially formulated for on-farm treatment, 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 this product on the seed. Uneven seed coverage may not give the desired level of disease control. The product does not require the addition of water for application. 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 this product with other pesticides unless sufficient compatibility, loading rates, and crop safety factors are determined.

This product has been found to be compatible with some liquid inoculant products. This product may be mixed or applied sequentially with approved liquid inoculants. Consult the manufacturer of the liquid inoculants and a ALBAUGH seed treatment representative for directions before applying this product with liquid inoculants.

This product contains an EPA-approved colorant that imparts a color to the seed as required by the Federal Seed Act.

## 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 mefenoxam and fludioxonil fungicides.
- **DO NOT** use for feed, food, or oil purposes.

In addition, the U.S. Environmental Protection Agency requires the following statements on containers of seeds treated with this product:

- Ground Water Advisory: Mefenoxam is known to leach through soil into groundwater under certain conditions as a result of label use. Fludioxonil has properties and characteristics associated with chemicals detected in groundwater. These chemicals may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.
- **DO NOT** apply more than 0.875 lbs. total fludioxonil per acre per year.
- The maximum annual application rate for mefenoxam must not exceed 12.3 lb ai/A per calendar year or the lesser value listed in the crop use section.
- This soybean seed has been treated with (0.0074)lb ai mefenoxam, (0.0027) lb ai fludioxonil per 100 lb seed.
- This legume vegetable seed has been treated with (0.0074)lb ai mefenoxam and (0.0027)lb ai fludioxonil per 100lb 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 pesticide remain in the ethanol by-products that are used in agronomic practice.
- **DO NOT** allow children, pets, or livestock to have access to treated seed.

- Store away from feeds and foodstuffs.
- 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.
- Treated seed must be planted into the soil at a depth greater than 1 inch.
- Dispose of all excess treated seed by burying away from bodies of water.
- **DO NOT** contaminate water bodies when disposing of planting equipment washwaters.
- Dispose of seed packaging in accordance with local requirements.

## CROP SPECIFIC USE INSTRUCTIONS

SEED TREATMENT USE RATE (all crops listed)		
Rate of this product / 100 lbs. seed	Active Ingredient	Lbs a.i. / 100 lbs
5.0 fl.oz. (147.9 mL)	Fludioxonil	0.0027 (1.22 grams)
	Mefenoxam	0.0074 (3.36 grams)
Crop	Diseases Controlled	
<b>SOYBEANS:</b>	Protection against damping-off and seed rots caused by <i>Pythium</i> , <i>Phytophthora</i> , <i>Fusarium</i> , <i>Rhizoctonia</i> spp, and <i>Phytophthora</i> root rot. Suppresses seed-borne <i>Sclerotinia</i> and <i>Phomopsis</i> spp.	
<p><b>Restriction: DO NOT</b> apply more than 0.052 lb ai/A (3 g ai/Acre) per calendar year of mefenoxam or metalaxyl-containing product as seed treatments on Soybeans. <b>DO NOT</b> apply more than 0.875 lb ai/A (396.9 g ai/Acre) per calendar year total fludioxonil.</p> <p>If the target soybean fields have a history of high <i>Phytophthora</i> pressure then use a tank mix with additional mefenoxam or metalaxyl seed treatment fungicide<sup>1,2</sup>. Alternatively, use approved liquid rhizobia inoculants at rates specified by manufacturer to achieve proper total slurry volumes.</p>		
<p><b>LEGUMES:</b></p> <p>Bean (<i>Lupinus</i> spp.) (grain lupin, sweet lupin, white lupin, white sweet lupin)</p> <p>Bean (<i>Phaseolus</i> spp.) (field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean)</p> <p>Bean (<i>Vigna</i> spp.) (adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean)</p> <p>Broad bean (fava bean)</p> <p>Chickpea (garbanzo bean)</p> <p>Guar</p> <p>Jackbean</p> <p>Lablab bean (hyacinth bean)</p> <p>Lentil Pea (<i>Pisum</i> spp.) (dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea)</p> <p>Pigeon pea</p> <p>Sword bean</p>	<p>Protection against damping-off and seed rots caused by <i>Pythium</i>, <i>Phytophthora</i>, <i>Fusarium</i>, <i>Rhizoctonia</i> spp, and <i>Phytophthora</i> root rot. Suppresses seed-borne <i>Sclerotinia</i> and <i>Phomopsis</i> spp.</p>	
<p><b>Restriction: DO NOT</b> apply more than 0.25 lb. ai/Acre (115 g ai/Acre) per calendar year of mefenoxam or metalaxyl- containing products as seed treatment on Legume Vegetables. <b>DO NOT</b> apply more than 0.875 lb ai/A (396.9 g ai/Acre) per calendar year total fludioxonil (including seed treatment, foliar and soil application)</p> <p>If the target soybean fields have a history of high <i>Phytophthora</i> pressure then use a tank mix with additional mefenoxam or metalaxyl seed treatment fungicide<sup>1,2</sup>. Alternatively, use approved liquid rhizobia inoculants at rates specified by manufacturer to achieve proper total slurry volumes.</p>		

<sup>1</sup> Where mefenoxam/metalaxyl products used allow **the same** maximum amount (lbs) of active ingredient per acre per calendar year: If more than one product containing mefenoxam/metalaxyl active ingredient is used on an acre during the same calendar year and the mefenoxam/metalaxyl products used allow the same maximum amount (lbs) of active ingredient per acre per calendar year, then the total amount of all such mefenoxam/metalaxyl products used must not exceed any of the specified individual mefenoxam/metalaxyl product maximum of active ingredient allowed per acre per calendar year.

<sup>2</sup> Where mefenoxam/metalaxyl products used allow **different** maximum amount (lbs) of active ingredient per acre per calendar year: If more than one product containing mefenoxam/metalaxyl active ingredient is used on an acre during the same calendar year and the mefenoxam/metalaxyl products used allow different maximum amount (lbs) of active ingredient per acre per calendar year, then the total amount of all such mefenoxam/metalaxyl products used must not exceed the lowest specified individual mefenoxam/metalaxyl product maximum of active ingredient allowed per acre per calendar year.

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.

## STORAGE AND DISPOSAL

**DO NOT** contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store in the original container and only in a cool, dry, secure place.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. 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 at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING [less than or equal to 5 gallons]: Non-refillable container. **DO NOT** reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. 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 by other procedures approved by state and local authorities.

CONTAINER HANDLING [greater than 5 gallons]: Non-refillable container. **DO NOT** reuse or refill this container. 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 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 by other procedures approved by state and local authorities.

CONTAINER HANDLING [greater than 5 gallons]: Refillable container. 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 person refilling. To clean container before final disposal, empty the remaining contents from this 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 procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

## 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 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.

