



Broad-spectrum seed treatment fungicide for control of seed and seed borne diseases in cotton.

Active Ingredients:

Azoxystrobin ¹	5.24%
Fludioxonil ²	0.87%
Mefenoxam ³	2.62%
Difenoconazole ⁴	0.35%
Other Ingredients:	<u>90.92%</u>
Total:	100.00%

¹(CAS No. 131860-33-8)

²(CAS No. 131341-86-1)

³(CAS No. 70630-17-0 and 69516-34-3)

⁴(CAS No. 119446-68-3)

Contains 0.48 pound azoxystrobin, 0.08 pound fludioxonil, 0.21 pound mefenoxam and 0.03 pound difenoconazole per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See Inside for Additional Precautionary Statements. Read the entire label before using this product. Use only according to label instructions.

EPA Reg. No. 100-1286-5905

EPA Est. No. 100-NE-001

SN 112407

Net Contents: 15 Gallons

**MANUFACTURED FOR
HELENA CHEMICAL COMPANY
225 SCHILLING BOULEVARD, SUITE 300
COLLIERVILLE, TN 38017**

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 do so by a poison control center or doctor.• Do not give anything by mouth to an unconscious person.
IF IN EYES:	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none">• 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.
IF INHALED:	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.• Call a poison control center or doctor for further treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact (800) 424-9300, collect day or night, for emergency medical treatment information.	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed. Wash thoroughly with soap and water after handling.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options follow the instructions for Category C on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber, or butyl rubber.
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, 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 immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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. If treated seed is spilled outdoors, or in areas accessible to birds or endangered species, promptly clean up and dispose of properly to prevent ingestion.

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.

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 Helena Chemical Company, no claims are made to guarantee germination of carry-over seed.

Due to seed quality, crop or variety sensitivity, and seed storage conditions beyond the control of Helena Chemical Company, no claims are made to guarantee the germination of seed or propagating material for all crop seed when treated with Seed Shield.

GENERAL INFORMATION

Seed Shield is a broad spectrum, preventative seed treatment fungicide with systemic and contact properties recommended for the control of many important plant diseases. Seed Shield may be applied in tank mixes, or sequentially with other registered, seed treatment products. If using Seed Shield in a tank mixture with other seed treatment products, observe all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations, which appear on the tank mix partner label. No label dosage should be exceeded and the most restrictive label precautions and limitations should be followed. This product should not be mixed with any product, which prohibits such mixing.

For use in commercial seed treatment operations only. Not for use in planter or hopper box applications.

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

GENERAL USE PRECAUTIONS

If necessary, cotton may be replanted immediately after last planting. Do not plant other crops sooner than 45 days after last planting.

RESISTANCE MANAGEMENT

GROUP	3 4 11 12	FUNGICIDES
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Seed Shield is a mixture of a Group 3 (difenoconazole), a Group 4 (mefenoxam), a Group 11 (azoxystrobin), and a Group 12 (Fludioxonil) fungicide. The potential for resistance to non-systemic seed treatment fungicides is extremely low. Conversely, in systemic seed treatments, which have the ability to move through the shoot and into the growing plant, the potential for resistance is higher. However, if the concentration of the systemic fungicide applied to the seed is low, the potential concentration that could move into the plant would be minimal and would not have any impact on foliar pathogens and resistance. Therefore, low rate seed treatments (like Seed Shield) can be followed by a foliar fungicide treatment with the same fungicide chemistry if it is applied at least 3 weeks after planting. Follow the resistance management guidelines for all foliar applications. For fungicide chemistry where there is documented resistance on a specific crop, use a different fungicide chemistry for the first foliar application.

MIXING INSTRUCTIONS

Apply Seed Shield as a water based slurry using seed treatment application equipment that will provide uniform coverage on the seed surface. Consult the manufacturer of the application equipment being used for calibration and operation procedures.

Seed Shield mixes easily with water and other water based seed treatments manufactured for Helena Chemical Company. When mixing with products from other manufacturers, the compatibility should be tested prior to use by conducting a jar test. Mix all intended seed treatments with the appropriate amount of water in a clear glass container. Mix well and let sit for one hour. Remix and observe for incompatibility.

Mixing Seed Shield with tank mix partners: Add 1/2 of the required water to the mix tank and turn on the agitation. Mechanical agitation is preferred. If using wettable powders and/or products in water-soluble pouches, add them first to clean water allowing them to completely disperse prior to adding Seed Shield or other products. Allow each tank-mix partner to completely disperse before adding the next product. Add the remaining amount of water and agitate. Maintain agitation until the entire slurry mixture has been used. Allow seed to dry prior to bagging.

Note: Federal law requires that bags of treated seeds shall be labeled with the following information. “This seed has been treated with azoxystrobin, fludioxonil, difenoconazole and mefenoxam fungicides. Do not use for food, feed or oil purposes. Store away from food and feedstuffs.” Use with an EPA-approved dye that imparts an unnatural color to the seed.

CROP USE DIRECTIONS

CROP	TARGET DISEASES	Amount of active ingredient (azoxystrobin, fludioxonil, mefenoxam, difenoconazole combined) per seed*	REMARKS
Cotton	Seed-borne and soil- borne fungi causing decay, damping-off and/or seedling blight. Seedling damping-off (Rhizoctonia solani, Pythium spp., Fusarium spp.)	0.023 mg	*mg per seed rates based on 5000 seeds per pound

*1 fl. oz. of Seed Shield contains 1.70 grams azoxystrobin, 0.28 grams fludioxonil, 0.74 grams mefenoxam, and 0.11 grams difenoconazole.

Application Based on a Weight Basis:

CROP	TARGET DISEASES	Use Rate fl. oz. product per 100 lbs seed*.
Cotton	Seed-borne and soil-borne fungi causing decay, damping-off and/or seedling blight. Seedling damping-off (Rhizoctonia solani, Pythium spp., Fusarium spp.)	4.0

*1 fl. oz. of Seed Shield contains 1.70 grams azoxystrobin, 0.28 grams fludioxonil, 0.74 grams mefenoxam, and 0.11 grams difenoconazole.

STORAGE AND DISPOSAL

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

Pesticide Storage

Store in original containers only. 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. 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 DISPOSAL

Plastic Containers: Triple rinse (or equivalent); then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or alternatives allowed by State and local authorities.

FOR BULK AND MINIBULK CONTAINERS

Container Disposal: Reseal container and offer for reconditioning, or triple rinse (or equivalent) and offer for recycling or reconditioning, or clean in accordance with manufacturer's instructions.

Container Precautions: Before refilling, inspect thoroughly for damage, such as cracks, punctures, bulges, dents, abrasions and damaged or worn threads on closure devices.

REFILL ONLY WITH SEED SHIELD. The contents of this container cannot be completely removed by cleaning. Refilling with materials other than Seed Shield will result in contamination and may weaken container. After filling and before transporting, check for leaks. Do not refill or transport damaged or leaking container.

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

CONDITIONS OF SALE-LIMITED WARRANTY AND LIMITATION OF LIABILITY AND REMEDIES

Read the Conditions of Sale - Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.

The directions on this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions or the failure to follow the label directions or good application practices, all of which are beyond the control of Helena Chemical Company (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Helena Chemical Company's election, one of the following:

1. Refund of the purchase price paid by buyer or user for product bought, or
2. Replacement of the product used

To the extent consistent with applicable law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.