A FUNGICIDE SEED TREATMENT PRODUCT PROVIDING SYSTEMIC FUNGICIDE PROTECTION AGAINST SEED AND SEEDLING DISEASES CAUSED BY PYTHIUM, PHYTOPHTHORA, PLASMOPORE AND APHANOMYCES SPECIES

Active Ingredient
Ethaboxam* ................................................................. By Wt 34.2%
Other Ingredients .......................................................... 65.8%
Total .................................................................................. 100.0%

*(RS)-N-(α-cyano-2-thienyl)-4-ethyl-2-(ethylamino)-1,3-thiazole-5-carboxamide

Lumiante™ contains 3.2 lb ethaboxam per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

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 1-800-411-3637 for emergency medical treatment information.

SEE NEXT PAGE FOR PRECAUTIONARY STATEMENTS

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Manufactured for
E. I. du Pont de Nemours and Company
Chestnut Run Plaza
974 Centre Road
Wilmington, DE 19805
PRECAUTIONARY STATEMENTS

PERSONAL PROTECTIVE EQUIPMENT (PPE)
Workers loading product, treating seed and conducting maintenance and calibration of the treater must wear: long-sleeved shirt, long pants, socks and shoes, and chemical-resistant gloves made of any waterproof material.

Workers involved with handling treated seed (such as baggers, sewers and bag stackers) must wear: long-sleeved shirt, long pants, socks and shoes.

Workers who load and plant treated seed must wear: long-sleeved shirt, long pants, socks and shoes and chemical-resistant gloves made of any waterproof material when handling treated seed.

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.

ENVIRONMENTAL HAZARDS
This pesticide is toxic to aquatic invertebrates, oysters, and shrimp. 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 contaminate water when disposing of equipment wash water or rinseate. Do not apply where runoff is likely to occur. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Apply this product only as specified on label.

Groundwater Advisory
This chemical 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 shallow.

Surface Water Advisory
This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several days after application. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams and springs will reduce the potential loading of ethaboxam from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

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 (WPS).

Do not enter or allow worker entry into treated areas during the Restricted Entry Interval (REI) of 12 hours.

AGRICULTURAL USE REQUIREMENTS (Cont.)

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

PESTICIDE STORAGE
Keep pesticide in original container. Store in a dry place away from excessive heat. Do not store near food or feed. Do not put pesticide into food or drink containers. Not for use or storage around the home.

To close package, replace and tighten cap to form an airtight seal.

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

CONTAINER HANDLING
Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Add water – at least 2% of the container volume, and up to 1/3 of the volume of water needed to make the proper slurry composition with a maximum of 1/4 of the container volume. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 60 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 rinseate into a rinseate collection system for disposal. Repeat this procedure two more times. Offer for recycling, if available; otherwise dispose of in a sanitary landfill or by incineration, if allowed by State and local authorities.

DIRECTIONS FOR USE
It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

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.

APPLICATION INSTRUCTIONS

RESTRICTIONS
Lumiante must be used only in accordance with use instructions on this label utilizing mechanical, slurry or mist-type seed treating equipment, provided that the equipment can be calibrated to accurately and uniformly apply the product to seed. This product is for both commercial and on-farm application. Do not apply this product in a hopper-box or planter-box at planting time. Always mix product thoroughly before use.

As stated by regulations specified in 40 CFR 153.155, all seed treated with Lumiante must be colored with an EPA-approved dye or colorant to visually distinguish seed is treated with a pesticide. It is mandatory that such dye or colorant be added into the slurry mixture containing Lumiante, prior to application. This regulation is necessary to prevent treated seed from accidental use as a food for man or feed for animals.

- Dispose of all excess treated seed. Left over treated seed may be double-sown around the headland or buried away from water sources in accordance with local requirements. Do not contaminate water bodies when disposing of planting equipment washwaters.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading.
MODE OF ACTION
Lumiante contains ethaboxam, which is a Group 22 fungicide as classified by the Fungicide Resistance Action Committee (FRAC). Its mode of action is the inhibition of cell division.

SEED QUALITY AND STORAGE OF TREATED SEED
Seed treatments applied to low vigor or poor quality seed or to mechanically damaged seed may result in loss of seed germination or reduced seedling vigor. To verify seed safety, treat a small portion of seed with the desired slurry mixture (Lumiante alone or in combination with other commercial seed treatment products) prior to treatment of an entire seed lot. Utilize standard seed germination methodologies to determine and verify seed safety. Due to seed quality and seed storage conditions beyond the control of DuPont, no claims are made to guarantee the germination of carry-over treated seed.

SEED BAG TAG
The Federal Seed Act requires that bags containing treated seed be labeled or tagged with the following information:
• This seed has been treated with Lumiante containing ethaboxam.
• Do not use for feed, food or oil processing.
• Excess 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 ethanol by-products that are used in agronomic practices.
In addition, the following statements are required on containers of seed treated with Lumiante Fungicide:
• Store away from feeds and other foodstuffs.
• Wear long-sleeved shirt, long pants, shoes and socks, and chemical-resistant gloves made of any waterproof material when handling treated seed.
• Dispose of all excess treated seed. Left over treated seed may be double-sown around the headland or buried away from water sources in accordance with local requirements. Do not contaminate water bodies when disposing of planting equipment washwaters.
• Dispose of seed packaging in accordance with local requirements.
• Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading.
• Treated seed must be planted into the soil at a minimum depth of 0.5 inch.

USE INFORMATION
Lumiante is a systemic fungicide seed protection product for use on a wide range of crops. The active ingredient, ethaboxam, provides protection against Oomycetes including Pythium spp., Phytophthora spp. and Aphanomyces spp. causing seed decay, seedling dieback and root rot.
For best results, use Lumiante combined with other Oomycete-active seed treatment fungicides, such as metalaxyl or mefenoxam, to broaden the spectrum of activity. In addition, use with a broad-spectrum seed treatment fungicide(s) having activity against Rhizoctonia solani and other fungal pathogens inciting seed and seedling disease.

APPLICATION DIRECTIONS
Accurate application of Lumiante to seed is required for best performance. Thoroughly mix Lumiante in the desired seed slurry mixture, prior to application to seed. Pre-test tank mixtures with other seed treatment products to evaluate formulation compatibility and to ensure proper physical compatibility of products. Follow the most restrictive limitations and precautions on labels of all products used in a seed treatment mixture. Do not tank mix with any products which contain a prohibition on tank mixing.
The following table provides use rates of Lumiante by labeled crop, with disease protection guidelines.

<table>
<thead>
<tr>
<th>Disease Protection Claims</th>
<th>Application Rate of Lumiante (fl oz/100 lb seed)</th>
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<tbody>
<tr>
<td>Pythium Seed Decay and Seedling Dieback</td>
<td>0.2 to 0.3 (5 to 7.5 g ai/100 kg seed)</td>
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<tr>
<td>Field Corn: To deliver 5 g ai/100 kg seed, apply 0.1 fl oz per 80,000 seed (equals 0.0141 mg ai/seed) based on 1600 seed/lb count</td>
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<tr>
<td>Sweet Corn: To deliver 5 g ai/100 kg seed, apply 0.064 fl oz per 100,000 seed (equals 0.0072 mg ai/seed) based on 3150 seed/lb count</td>
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<tr>
<td>Popcorn: To deliver 5 g ai/100 kg seed, apply 0.066 fl oz per 100,000 seed (equals 0.0074 mg ai/seed) based on 3061 seed/lb count</td>
<td></td>
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<tr>
<td>Sorguhm: To deliver 5 g ai/100 kg seed, apply 0.011 fl oz per 100,000 seed (equals 0.0012 mg ai/seed) based on 18,000 seed/lb count</td>
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Corn (sweet and field); popcorn; sorghum, grain (milo)
LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read this 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.

DuPont will not be responsible for losses or damages resulting from use of this product in any manner not specifically published by DuPont and stated on this label or other labels or recommendations which conform with Section 2(ee) of the Federal Insecticide, Fungicide and Rodenticide Act. User assumes all risks associated with such non-specified use.

It is impossible to eliminate all risks associated with the use of this product. Such risks arise from weather conditions, soil factors, off target movement, unconventional farming techniques, presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of DuPont. These risks can cause: ineffectiveness of the product, crop injury, or injury to non-target crops or plants. WHEN YOU BUY OR USE THIS PRODUCT, YOU AGREE TO ACCEPT THESE RISKS.

DuPont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purpose stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, DUPONT MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL DUPONT OR SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. BUYER’S OR USER’S BARGAINED-FOR EXPECTATION IS CROP PROTECTION. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER AND THE EXCLUSIVE LIABILITY OF DUPONT OR SELLER, FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, TORT OR STRICT LIABILITY), WHETHER FROM FAILURE TO PERFORM OR INJURY TO CROPS OR OTHER PLANTS, AND 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 DUPONT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

To the extent consistent with applicable law that allows such requirement, DuPont or its Ag Retailer must have prompt notice of any claim so that an immediate inspection of buyer’s or user’s growing crops can be made. Buyer and all users shall promptly notify DuPont or a DuPont Ag Retailer of any claims, whether based on contract, negligence, strict liability, other tort or otherwise, or be barred from any remedy.

This Limitation of Warranty and Liability may not be amended by any oral or written agreement.

COMMERCIAL TANK MIXES

NOTICE: Commercial tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor.

Read and follow the entire label of each product to be used in the commercial tank mix with this product.
CARANTEE™ contains 3.2 lb ethaboxam per gallon

1,3-thiazole-5-carboxamide
* -N-(RS)(a-cyano-2-thienyl)-4-ethyl-2-(ethylamino)-

Total ........................................ 100.0%
Other Ingredients ................................ 65.8%
Ethaboxam .................................. 34.2%

SPECIES
APHANOMYCES, AGAINST SEED AND SEEDLING DISEASES CAUSED

A FUNGICIDE SEED TREATMENT PRODUCT

WORKERS LOADING PRODUCT, TREATING SEED AND CONDUCTING

PERSONAL PROTECTIVE EQUIPMENT (PPE)

OTHER INFORMATION

USERS SHOULD:

• Remove clothing and PPE immediately if pesticide gets inside.
• Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
• Wash hands before removing PPE and after contact with PPE.
• Wash clothing/PPE before reusing.

PERSONAL PROTECTIVE EQUIPMENT

• Full protective coverall, including hood or hard hat, long-sleeved shirt, long pants, socks and shoes.
• Long-sleeved shirt, long pants, socks and shoes and chemical-resistant gloves when handling treated seed such as baggers, sawers and bag stackers.
• Gloves resistant to ethaboxam when removing treated seed.
• Long-sleeved shirt, long pants, socks and shoes, and chemical-resistant gloves when disposing of equipment wash water or other contaminated material.
• Wash outside of gloves before removing.
• As soon as possible取得了, wash gloves and change into clean clothing.

STORAGE AND DISPOSAL

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

PESTICIDE DISPOSAL

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

CONTAINER HANDLING

Do not store near food or feed.

PESTICIDE STORAGE

Keep pesticide in original container.

PESTICIDE DISPOSAL

Do not put pesticide into food or drink containers.

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