

Specimen Label

IPCONAZOLE	GROUP	3	FUNGICIDE
PICOXYSTROBIN	GROUP	11	FUNGICIDE
OXATHIPIPROLIN	GROUP	49	FUNGICIDE



LumiTreo™

FUNGICIDE SEED TREATMENT

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A seed treatment product for protection against seedling disease complex (damping off, seedling blight, and seed rot and root rot) caused by *Fusarium spp.*, *Rhizoctonia solani*, *Phytophthora sojae*, seed-borne *Phomopsis*, seed rot fungi such as *Aspergillus* and *Penicillium*, and suppression of *Pythium* in soybeans.

Active Ingredients:

Ipconazole	6.82%
Picoxystrobin	6.82%
Oxathiapiprolin	20.63%
Other Ingredients	65.73%
Total	100.00%

Contains 1,2-benzisothiazolin-3-one at 0.02% as a preservative.

LumiTreo contains 0.634 lb of ipconazole per gallon, 0.634 lb picoxystrobin per gallon and 1.919 lb oxathiapiprolin per gallon.

EPA Reg. No. 352-937

Keep Out of Reach of Children

CAUTION

First Aid

If Swallowed: 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 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.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

If in Eyes: 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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

Precautionary Statements

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).

Hazards to Humans and Domestic Animals

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)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves

Remove and wash contaminated clothing before reuse. 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:

- Wash hands thoroughly after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. If pesticide gets on skin, wash immediately with soap and water.
- 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 product is toxic to 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 contaminate water when disposing of equipment washwater or rinsate. Treated seed exposed on soil surface may be hazardous to wildlife. Cover or collect seeds spilled during loading and planting. This fungicide may persist in soil and long-term use in the same field may result in an accumulation of the active ingredient.

General Information

LumiTreo is a flowable suspension that is applied as a seed treatment for protection against listed soilborne, seed-borne and early season post-emergence diseases.

Directions for Use

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

Read all Directions for Use carefully before applying.

Ensure proper agitation of LumiTreo prior to use.

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.

LumiTreo must be used only in accordance with instructions on this label, in separately issued labeling or exemptions under FIFRA (e.g., supplemental labels, Special Local Needs Registrations, FIFRA Section 18), or as otherwise permitted by FIFRA. Always read the entire label including the Limitation of Warranty and Liability.

LumiTreo is for use in commercial seed treaters only, operating standard, calibrated seed treatment equipment. Do not use this product in hopper-box, planter-box, slurry-box or other seed treatment applications.

Do not use treated seed for food or animal feed, mix with food or animal feed, or process for oil.

This product contains no colorant. An EPA-approved colorant must be added when this product is applied to seed per 40 CFR 153.155(b)(1). Seed must be conspicuously colored at the time of treatment.

When applied according to this label, LumiTreo will provide early season protection against *Phytophthora*, *Rhizoctonia*, *Fusarium* causing seed rot, root and stem rot and/or damping off in soybeans. This product is also effective against seed-borne *Phomopsis* and seed rot fungi such as *Aspergillus* and *Penicillium*. This product provides suppression of *Pythium*. For enhanced *Pythium* protection, mix LumiTreo with an additional product labeled for *Pythium* control.

Consult your local company representative or agricultural advisor for guidance on predicted disease pressure based on historical data for these diseases in your area.

LumiTreo-treated seed may be replanted immediately if an emergency replanting is required due to an early season crop failure.

Treating significantly damaged seed or seed that is low vigor or overall poor quality may result in reduced germination, seedling vigor and plant stand. Before treating an entire seed lot with the proposed seed treatment, treat a small portion of the seed lot and conduct subsequent germination tests.

Field and laboratory tests have demonstrated that application of LumiTreo to soybean seed will not negatively affect germination. However, due to seed quality and seed storage conditions beyond the control of Corteva Agriscience, no claims are made to guarantee the germination of carry-over seed.

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 12 hours.

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:

- Coveralls
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

Non-Agricultural Use Requirements

The requirements of this box 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.

Entry Restrictions for Non-WPS Uses: Keep unprotected persons out of treated areas until sprays have dried.

Storage and Disposal

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

PESTICIDE STORAGE: Store in a cool dry place. Do not store in direct hot sunlight. Do not store above 104°F. If the product should freeze, allow the product to return to approximately 75°F before use. After prolonged storage, ensure the contents are mixed well prior to application.

Keep container closed when not in use. Always store pesticides in the original container only, away from food, pet food, feed, seed, fertilizers, and veterinary supplies. If a leaky container must be contained within another, mark the outer container to identify the contents. Storage areas must be locked and secure from vandalism, with precautionary signs posted. The storage area must be dry, well-lit, and well-ventilated. Keep pesticide storage areas clean. Clean up any spills promptly. Protect pesticide containers from extreme heat and cold. Store herbicides, insecticides and fungicides in separate areas within the storage unit. Place liquid formulations on lower shelves and dry formulations above. Maintaining a spill kit and fire extinguisher on hand and having emergency phone numbers posted will allow you to be prepared for emergencies. If spill cleanup PPE is stored nearby, but outside the pesticide storage area, it will be accessible when needed.

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

CONTAINER HANDLING: Refer to the Net Contents section of this product's labeling for the applicable "Refillable Container" or "Non-refillable Container" designation. Non-refillable Rigid Plastic and Metal Containers (Capacity Equal to or Less 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 and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 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, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Non-refillable Plastic and Metal Containers (Capacity Greater Than 5 Gallons): Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse

Storage and Disposal (Cont.)

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, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Non-refillable Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled or Turned Upside Down): Non-refillable container. Do not reuse or refill this container. Clean container promptly after emptying the contents from this container into application equipment or mix tank and before final disposal using the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

All Refillable Containers: Refill this container with LumiTreo only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. If leaks are found, do not reuse or transport container, contact Corteva Agriscience at the number below for instructions. Disposing of Container: Do not reuse this container for any other purpose other than refilling (see preceding). Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, use the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom, and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. For Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Do not transport if container is damaged or leaking. If the container is damaged, leaking or obsolete, or in the event of a major spill, fire or other emergency, call 800-992-5994 day or night.

Product Information

LumiTreo fungicide is a flowable suspension containing oxathiapiprolin, ipconazole, and picoxystrobin and is recommended for use as a seed treatment product for protection against listed soilborne, seed-borne, and early season post-emergence diseases.

Seed Storage

Field and laboratory tests have demonstrated that application of LumiTreo to soybean seed will not negatively affect germination. However, due to seed quality and seed storage conditions beyond the control of Corteva Agriscience, no claims are made to guarantee the germination of carry-over seed.

Treatment of damaged seed or seed known to be of low vigor and poor quality may result in reduced germination and/or seed and seedling vigor. In cases where seed quality is unknown, treat a small portion of the seed

with LumiTreo and confirm acceptable germination, prior to treating the entire seed lot.

Mode-of-action

Oxathiapiprolin, FRAC group 49, acts as an oxysterol binding protein (OSBP) modulator in fungal cells and protects against Phytophthora disease by inhibiting OSBP. It has preventive, residual, curative, and eradivative activity.

Ipconazole, FRAC group 3, a DMI triazole, acts on sterol biosynthesis in membranes.

Picoxystrobin, FRAC group 11, a QoI fungicide, acts upon respiration at complex III.

Cultivar/Varietal Seed Safety

Not all soybean varieties have been individually tested for seed safety. It is not possible to evaluate all applications of LumiTreo for seed safety on all varieties or under all environmental conditions and growing circumstances. To test for seed safety, apply the product in accordance with the label instructions to a small amount of target seed and confirm acceptable germination to ensure that a phytotoxic response will not occur, especially where the application is a new use of the product by the applicator.

Application Information

Mixing Procedures

LumiTreo is for use in commercial seed treaters only, operating standard, calibrated seed treatment equipment. Do not use this product in hopper-box, planter-box, slurry-box, or other seed treatment applications. Treatment equipment must be clean and free of previous pesticide deposits before applying LumiTreo. Before transferring LumiTreo from its container, thoroughly mix the contents to ensure the product is homogenous. Add LumiTreo directly to the mixing tank. Mix the recommended amount of LumiTreo thoroughly with the required amount of water allowing good seed coverage. If available on the application equipment, LumiTreo can be applied directly through dedicated application modules in place of a mixing tank.

This product is undyed. Add an EPA-approved colorant to treat the seeds per 40 CFR 153.155(b)(1) during the seed treatment process. Ensure that all treated seeds are dyed an unnatural color.

Mixing Tank and Equipment Cleanout

Prior to application, start with clean, well-maintained application equipment. Immediately following application, thoroughly clean all mixing equipment to reduce the risk of forming hardened deposits which might become difficult to remove. Drain mixing equipment. Thoroughly rinse mixing equipment and flush with clean water.

Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources, or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

Tank Mixtures

LumiTreo may be applied as a water-based slurry with other registered seed treatment products including fungicides, insecticides, nematicides, bio-stimulants, or micronutrients. Potential mixing partners should be

tested for physical compatibility with LumiTreo including added colorants or polymers before mixing in a large tank for seed treatment. Follow the most restrictive labeling limitations and precautions of all products used in mixtures. Do not mix this product with any product that prohibits such mixing.

Commercial Seed Bag Labeling

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

- This seed has been treated with oxathiapiprolin, picoxystrobin, and ipconazole fungicides.
- Treated Seed. Do not use for food, feed or oil purposes.

In addition, the U.S. Environmental Protection Agency requires the following statements on bags containing seeds treated with LumiTreo:

- Do not allow children, pets, or livestock to have access to treated seed.
- Store away from food or feedstuffs.
- Wear long pants, long-sleeved shirt, shoes, socks and chemical-resistant gloves when handling treated 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 ethanol by-products that are used for agronomic practice.
- Cover or incorporate spilled treated seeds.
- 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.
- Dispose of seed packaging in accordance with local requirements.

Resistance Management Recommendations

This product contains the fungicide active ingredients oxathiapiprolin (a Group 49 fungicide), picoxystrobin (Group 11), and ipconazole (Group 3). Oxathiapiprolin inhibits the oxysterol-binding protein (OSBP). Ipconazole is a DMI triazole that acts on sterol biosynthesis in membranes. Picoxystrobin is a QoI fungicide that acts upon respiration at complex III.

- Corteva Agriscience recommends an integrated stewardship plan for successful disease resistance management.
- Combining LumiTreo with fungicides containing additional modes of action as mix partners is a recommended disease resistance management practice.
- Do not make more than one seed treatment application of oxathiapiprolin per year on the same acreage targeting the same pathogen, except in the case of crop failure.
- No foliar or soil fungicide application of an OSBP-inhibiting fungicide should be made following a seed treatment application of oxathiapiprolin or other OSBP-inhibiting fungicides.

Mixing Instructions

Dilute in a sufficient volume of water to obtain thorough, uniform coverage. Polymers, colourants, and other additives should be tested for compatibility and seed safety prior to use in combination with LumiTreo.

Use Rate

SOYBEANS

Crop	Target Diseases (pathogen)	Use Rates	
		fl oz/140,000 seeds (fl oz/100 lbs seed)	mg ai/seed
Soybeans	Diseases controlled: Seed rot / pre-emergence damping off and post-emergence damping off caused by <i>Rhizoctonia solani</i> , <i>Fusarium</i> spp. Early season root rot and seedling blight caused by <i>Rhizoctonia solani</i> and <i>Fusarium</i> spp. Phytophthora seed rot / pre-emergence damping off and post-emergence damping off (<i>Phytophthora sojae</i>) Seed-borne <i>Phomopsis</i> and seed rot (<i>Penicillium</i> spp. and <i>Aspergillus</i> spp.) Diseases suppressed: <i>Pythium</i> spp.	0.25 (0.50) *	Ipconazole 0.004 Picoxystrobin 0.004 Oxathiapiprolin 0.012

* Calculations are based on 140,000 seed unit = 22.7 kg (50 lb. unit) which equates to 2800 seeds/lb or 6160 seeds/kg.

Terms and Conditions of Use

If terms of the following Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. To the extent permitted by law, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitation, of Remedies.

Warranty Disclaimer

Corteva Agriscience warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. To the extent permitted by law, Corteva Agriscience MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Corteva Agriscience or the seller. Corteva Agriscience will not be responsible for losses or damages resulting from the use of this product in any manner not specifically directed by Corteva Agriscience. To the extent permitted by law, all such risks associated with non-directed use shall be assumed by buyer and/or user.

Limitation of Remedies

To the extent permitted by law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, tort, strict liability, or other legal theories), shall be limited to, at Corteva Agriscience's election, one of the following:

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

To the extent permitted by law, Corteva Agriscience shall not be liable for losses or damages resulting from handling or use of this product unless Corteva Agriscience is promptly notified of such loss or damage in writing. To the extent permitted by law, in no case shall Corteva Agriscience be liable for consequential, incidental, or special damages or losses.

The terms of the Warranty Disclaimer, Inherent Risks of Use, and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Corteva Agriscience or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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