



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460**

**OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION**

January 25, 2023

Paula Bodey
Senior Registration Manager
FMC Corporation
2929 Walnut Street
Philadelphia, PA 19104

Subject: Label Amendment – Added soybean use, revised label direction, removed pests from cotton
Product Name: Y6981-R002 LFR Fungicide
EPA Registration Number: 279-9658
Application Date: 11/03/2020
Decision Number: 584077

Dear Paula Bodey:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

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 FIFRA 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) lists 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.

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Your release for shipment of the product 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.

If you have any questions, please contact Senedu Alemu by email at alemu.senedu@epa.gov.

Sincerely,



Nathan Mellor, Product Manager 21
Fungicide Branch
Registration Division (7505T)
Office of Pesticide Programs

Enclosure

FLUTRIAFOL	Group	3	Fungicide
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Y6981-R002 LFR® Fungicide

[ABN: Xyway™ LFR® Fungicide]
[ABN: Xyway™ LFR® fungicide]

For mixing with liquid fertilizer or water to control listed soil and foliar diseases.

ACTIVE INGREDIENT:

Flutriafol.....	20.9%
OTHER INGREDIENTS:.....	<u>79.1%</u>
TOTAL:	100.0%

Contains 1.92 pounds per gallon of the active ingredient flutriafol.
Suspension Concentrate.

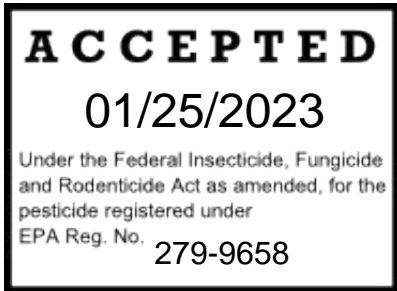
Keep Out of Reach of Children
CAUTION/ PRECAUCION

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.)

IN CASE OF A MEDICAL EMERGENCY INVOLVING THIS PRODUCT, CALL
TOLL FREE, DAY OR NIGHT, 1-800- 331-3148

– OR –

For MEDICAL EMERGENCY 1-800-331-3148	For SPILLS CHEMTREC 1-800-424-9300
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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.

Note to PM, the following bracketed statements are individually optional depending on the packaging configuration and whether a booklet label design is used:

- a.[See First Aid statement on back [label] [panel] [of booklet]].
- b.[See additional precautionary statements and Directions for Use in booklet.]
- c.[Read the entire label before using this product.]
- d.[See First Aid, Precautionary Statements, and Directions for Use on individual packages.]

EPA Reg. No. 279-9658

EPA Est. No. _____

Net Contents: _____

Sold by:
FMC Corporation
2929 Walnut Street
Philadelphia, PA 19104

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FIRST AID

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 eyes.
- Call a poison control center or doctor for treatment advice.

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 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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-331-3148 for emergency medical treatment information.

Note to Physician: No specific antidote. Treat symptomatically.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Caution. Causes moderate eye irritation. Avoid contact with eyes and clothing. 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 all other handlers must wear: long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves (barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene polyvinyl chloride ≥ 14 mils, or Viton® ≥ 14 mils) and protective eyewear. 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.

ENGINEERING CONTROLS STATEMENT

When handlers use closed systems, enclosed cabs, or aircraft 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:

Remove clothing/PPE 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 formulated product is toxic to 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** contaminate water when disposing of equipment washwater or rinsate.

Ground Water Advisory: Flutriafol has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water 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 a high potential for reaching surface water via runoff for several months or more after application.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any 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.

[Note to Reviewer: Below is optional state specific language.]

[Optional language for CA: In California, this product may only be applied to fields that are not irrigated, or are irrigated using pressurized irrigation methods such as macro-sprinkler, micro-sprinkler, or drip systems.]

[Optional language for NY:

- Not for sale, distribution, or use in Nassau or Suffolk Counties of New York State.
- In New York State this product may not be applied within 100 feet (using ground equipment) of coastal marshes or streams that drain into coastal marshes.]

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Workers 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, including plants, soil or water, is: coveralls, chemical resistant gloves, and shoes plus socks.

STORAGE AND DISPOSAL

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

Pesticide Storage: Avoid freezing. Store unused product in original container in a cool, dry, secure area. Before using after storage, shake product container well, including inverting the container or circulating contents.

Pesticide Disposal: Pesticide wastes may be 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 at the nearest EPA Regional Office for guidance.

Container Handling:

Non-refillable Container [in sizes 5 gallons or less]: **DO NOT** reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank and drain for 10 seconds after flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use or disposal. Drain for 10 seconds after 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, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Non-refillable Container [in sizes greater than 5 gallons]: DO NOT reuse or refill this container. Triple rinse or pressure rinse container promptly after emptying. Triple rinse as follows: Empty remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ 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 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Pressure rinse as follows: Empty remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold the container upside down over application equipment or a mix tank or collect rinsate for later use or 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Returnable/Refillable Container: DO NOT rinse container. **DO NOT** empty remaining formulated product. **DO NOT** break seals. Return intact to point of purchase. 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 into application equipment or mix tank or rinsate collection system. Fill the container about 10% 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, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

PRODUCT DIRECTIONS

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

Restrictions

Apply at planting to the soil, as a soil-applied or directed application, or a foliar application after crop emergence, as described in the specific crop use directions.

DO NOT apply this product by air.

The maximum application rate per acre per year (pounds active ingredient/acre/year) as listed under the use directions for each crop must not be exceeded.

Crop Rotation Restrictions: Fields treated with Y6981-R002 LFR Fungicide may be planted to the following crops and plant back intervals:

Crop	Plant back Interval
Field corn; field corn grown for seed or silage; popcorn; sweet corn; cotton;	Immediately
Alfalfa, barley, cucurbits; fruiting vegetables; grapes; hops; Brassica leafy vegetables crop group 5; leafy vegetables, except Brassica, crop group 4; peanut; pome fruit; grain sorghum; rice, soybean; stone fruit; strawberry; sugar beet; tomato; tree nuts; triticale; or wheat	30 days
All other crops	Prohibited

APPLICATION AND MIXING INSTRUCTIONS

Y6981-R002 LFR® fungicide contains 1.92 pounds of flutriafol per gallon and can be mixed directly with liquid fertilizer or with water as the carrier. If applied to the soil surface, rainfall or irrigation of a minimum of 0.5 inch is required to incorporate Y6981-R002 LFR® fungicide into the soil to make the active ingredient available for root uptake. The amount of precipitation required will vary with soil type, existing soil moisture, and rainfall or irrigation intensity.

At-plant Applications with Fertilizer: Y6981-R002 LFR® fungicide can be mixed with commonly used liquid starter or pop-up fertilizers. Follow liquid fertilizer directions regarding seed safety and use guidelines. Conduct a jar test using the appropriate ratio of fertilizer and Y6981-R002 LFR® fungicide prior to mixing in the applicator. It is not advised to allow a tank mixture to set overnight or longer, but if this occurs agitate tank mixture prior to resuming application.

Follow the application directions in the specific crop use directions. Use the highest rate for the specific crop when disease pressure is expected to be high. Prepare the Y6981-R002 LFR® fungicide/ liquid fertilizer or water mixture immediately prior to application. Shake well or circulate container contents before use. . Fill the tank 1/3 to ½ full with liquid fertilizer or water and begin spray tank agitation. Add the proper amount of Y6981-R002 LFR® fungicide, and then add the rest of the fertilizer or water. Add any other additives (micronutrients, soil amendments, etc.) to the tank after the Y6981-R002 LFR® fungicide is thoroughly mixed with the carrier. Maintain agitation until the mixture has been applied.

Tank Mixing: Y6981-R002 LFR® fungicide may be tank mixed with other fungicides, herbicides, insecticides, and/or other additives unless prohibited on the label of the tank mix partner. Follow more restrictive labeling of any tank mix partner. Although Y6981-R002 LFR® fungicide is compatible with most products, not all combinations have been tested. All crop varieties and cultivars have not been tested. Local conditions can also

influence crop tolerance and may not match those under which FMC has conducted testing. FMC has not tested all possible combinations and rates of additives or adjuvants. Physical incompatibility, reduced disease control, or crop response/injury may result from mixing Y6981-R002 LFR® fungicide with other products. 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. Use the compatibility jar test to ensure physical compatibility. Before applying any tank mixture not specifically advised on this label, the crop safety of the target crop should be confirmed by applying the mixture to a small area of the target crop in accordance to the label instructions.

Compatibility Jar Test: Y6981-R002 LFR® fungicide is compatible with most products, however not all combinations have been tested. Use the following compatibility jar test to ensure physical compatibility.

Using a quart jar, add the proportionate amounts of the products to approximately one quart of the carrier, (water or liquid fertilizer) with agitation. Add wettable powders and water dispersible granular products first, next liquid flowables, then emulsifiable concentrates, and last liquid soluble products. After thorough mixing, allow this mixture to stand for 5 minutes. If the combination remains mixed or can be readily remixed, it is physically compatible. Once compatibility has been proven, use the same procedure for adding products to the spray tank. Use tank mix combinations on a small number of plants before treating larger areas. When tank mixing, follow more restrictive labeling of any tank mix partner. **DO NOT** tank mix with any product that contains a prohibition on tank mixing.

Liquid Application: Y6981-R002 LFR® fungicide should be applied in a minimum of 5 gallons total spray volume per acre. The minimum application volume should be capable of maintaining a solid delivery stream. A broken or intermittent stream could negatively affect performance.

Dry Fertilizer Impregnation: Y6981-R002 LFR® fungicide may be impregnated on many dry bulk fertilizers and applied at-planting or postemergence to registered crops.

All individual state regulations relating to dry bulk granular fertilizer blending, labeling, and application are the responsibility of the individual or company selling the fungicide/fertilizer mixture.

To impregnate Y6981-R002 on dry bulk fertilizer, use a closed rotary drum mixer or other commonly used dry bulk fertilizer blender equipped with suitable spray equipment.

Prepare a slurry of Y6981-R002 LFR® fungicide in a clean container using clean water. Slowly add the slurry to the impregnation spray tank and finish filling as need with water. Spray nozzles must be placed to provide uniform coverage of the Y6981-R002 LFR® fungicide onto the fertilizer during mixing.

Refer to the appropriate crop section of the Y6981-R002 LFR® fungicide label to determine the rate of Y6981-R002 to be applied per acre. Use the following formula to determine the amount of Y6981-R002 LFR® fungicide to be impregnated on a ton (2000 lbs.) of dry bulk fertilizer based on the rate of fertilizer that will be applied per acre.

DO NOT impregnate Y6981-R002 on ammonium nitrate, potassium nitrate alone or in blends and straight limestone fertilizers.

$$\frac{2000 \text{ lb dry fertilizer}}{\text{fertilizer rate/A (lb)}} \times \text{Use rate (fl oz/A)} = \text{Oz Y6981-R002 LFR® fungicide to be applied/ton fertilizer}$$

Chemigation:

Application through Drip Irrigation Systems (Chemigation):

Apply Y6981-R002 LFR® fungicide through drip irrigation to crops at rates and timings specified in this label. Agitation is required to ensure uniform suspension and product application to the treated crop. If an application must be stopped due to equipment breakdown or inclement weather, agitation of the solution is required to ensure uniform suspension before application resumes. Ensure adequate soil moisture prior to utilizing Y6981-R002 LFR® fungicide in a drip irrigation system. Chemical tank and injector system must be thoroughly cleaned before and after use. Flush system with clean water.

Discontinue drip irrigation application at fungicide depletion from the main feed supply tank or after 6 hours from start, whichever is shorter. **DO NOT** allow chemical to remain in the irrigation system after the application is complete. Flush the system with a volume of water adequate to completely remove product from the lines but less than the amount of total water volume that could saturate the beds. Delay subsequent irrigation (water only) for at least 24 hours following drip application for best results.

Restriction:

DO NOT apply Y6981-R002 LFR® fungicide through drip irrigation that is deeper than 12" below the soil surface.

Operating Requirements for Application through Irrigation Systems:

Restriction:

1. **DO NOT** use chemigation when conditions are favorable for drift to non-target areas.
2. To prevent water-source contamination from backflow, a functional check valve, vacuum relief valve, and low-pressure drain should be located on the irrigation pipeline.
3. To prevent backflow back toward the injection pump, the pesticide injection pipeline must be equipped with a functional, automatic, quick-closing check valve.
4. To prevent fluid from being withdrawn from the supply tank when the irrigation system is shut down, the pesticide injection pipeline should also be equipped with a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock.
5. The system must also contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops and a functional pressure switch to stop the pump motor when water pressure decreases to a point at which pesticide distribution is adversely affected.

6. A metering pump, constructed of materials compatible with pesticides and capable of being fitted with a system interlock, for example, a positive displacement injection pump (e.g., a diaphragm pump), must be included in the system.
7. A knowledgeable person responsible for the chemigation system should shut the system down and turn the irrigation water off, ensuring enough time for the pesticide to be flushed through all lines and nozzles.
8. No irrigation system, including those in greenhouses, used to distribute pesticides can be connected to a public water source unless safety measures and devices prescribed in the pesticide label for such connection are in place.

Specific Instructions for Public Water Systems:

1. Public water system means a system that provides piped water for human consumption if the system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. All measures and devices listed in the above section, “Operating Requirements for Application through Irrigation Systems”, must be operational for connection to a public water system.
3. Additionally, chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back-flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There must be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

Y6981-R002 LFR® fungicide Required Per Acre for Various Row Spacings							
Row Spacing	40"	38"	36"	30"	20"	15" or 30" twin row	7.5"
Linear row-ft/A	13,069	13,756 ft	14,520 ft	17,424 ft	26,136 ft	34,848 ft	69,696
<u>Conversion</u>							
0.11 fl oz/1000 Lin ft =					2.9 fl oz/A	3.8 fl oz/A	7.6 fl oz/A
0.22 fl oz/1000 Lin ft =					5.7 fl oz/A	8.3 fl oz/A	15.2 fl oz/A
0.44 fl oz/1000 Lin ft =	5.8 fl oz/A	6.0 fl oz/A	6.4 fl oz/A	7.6 fl oz/A	11.5 fl oz/A	15.3 fl oz/A	
0.55 fl oz/1000 Lin ft =	6.5 fl oz/A	6.8 fl oz/A	7.3 fl oz/A	8.7 fl oz/A	13.0 fl oz/A	17.4 fl oz/A	
0.87 fl oz/1000 Lin ft =	11.4 fl oz/A	12.0 fl oz/A	12.6 fl oz/A	15.2 fl oz/A	22.7 fl oz/A		
0.99 fl oz/1000 Lin ft =	12.9 fl oz/A	13.6 fl oz/A	14.4 fl oz/A	17.3 fl oz/A			

For all other row spacings:

1. Determine row-ft/A (20-inch row example):

522720 sq-in/ac	522720	=	26,136 row-ft/A
Row Spacing (inches)	20		

2. Determine fl oz/1000 row-ft (20-inch row, 15.2 fl oz/A example):

Selected Rate(fl oz/ac)	15.2 fl oz/A	=	0.58 fl oz/1000 row-ft
$\frac{15.2 \text{ fl oz}}{1 \text{ ac}} \times \frac{1 \text{ ac}}{26,136 \text{ row-ft}} \times 1,000 \text{ ft}$			

MANDATORY SPRAY DRIFT MANAGEMENT

Airblast Applications:

- Sprays must be directed into the canopy.
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- User must turn off outward pointing nozzles at row ends and when spraying outer row.
- Do not apply during temperature inversions.

Ground Boom Applications:

- User must only apply with the release height directed by the manufacturer, but no more than 4 feet above the ground or crop canopy and have minimal bounce.
- Applicators are required to use a Medium to Coarse droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Do not apply during temperature inversions.

Boomless Ground Applications:

- Applicators are required to use a Medium to Coarse droplet size (ASABE S572.1) for all applications.
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Do not apply during temperature inversions.
- Do not apply during temperature inversions.

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size – Ground Boom

- Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure - Use the lowest spray pressure specified for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

BOOM HEIGHT – Ground Boom

For ground equipment, the boom should remain level with the crop and have minimal bounce.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

WIND

Drift potential increases with wind speed. **AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.** Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

BOOMLESS GROUND APPLICATIONS

Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

HANDHELD TECHNOLOGY APPLICATIONS:

- Take precautions to minimize spray drift.

Resistance Management:

Y6981-R002 LFR® fungicide contains the active ingredient flutriafol, a FRAC Group 3 demethylation inhibitor (DMI). Any fungal population may contain individuals naturally resistant to Y6981-R002 LFR® fungicide and other Group 3 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields.

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

- Rotate the use of Y6981-R002 LFR® fungicide or other FRAC Group 3 fungicides within a growing season with non-FRAC Group 3 fungicides effective against the target pathogen .
- Use tank mixtures with fungicides from a different FRAC 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 guidelines for specific crops and pathogens.
- For information or to report suspected resistance contact your pesticide distributor or university extension specialist.

CROP USE DIRECTIONS

Product Information

Y6981-R002 fungicide is a soil applied fungicide that is absorbed through the roots and is translocated through the vascular system within the plant and is distributed through the roots, stem and leaves for foliar disease control during the growing season. The systemic movement of Y6981-R002 LFR® fungicide can also aid in reduction of soil disease infection by feeding of insect pests for example corn rootworm in corn leading to healthier plants.

Y6981-R002 LFR® fungicide soil applications provide disease control/suppression through the growing season. For control of late-season infestations, heavy disease pressure situations, a supplemental foliar application of an appropriate fungicide may be needed.

Use Directions for Corn (At Planting Off the Seed Application) (Field, Corn Grown for Grain, Seed or Silage, Popcorn, Sweet Corn)

Diseases	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft.*	Pound ai/A
Gray Leaf Spot (<i>Cercospora zeae-maydis</i>)	5.8 – 15.2	0.44 – 0.87	0.114 – 0.228
Southern Corn Leaf Blight (<i>Bipolaris maydis</i>)			
Northern Corn Leaf Blight (<i>Exserohilum turcicum</i>)			
Common Rust (<i>Puccinia sorghi</i>)			
Suppression:			
Anthracnose Stalk Rot (<i>Colletotrichum graminicola</i>)			
Fusarium Stalk and Crown Rot (<i>Fusarium graminearum</i> , <i>Fusarium spp.</i>)			
Physoderma Brown Spot (<i>Physoderma maydis</i>)			
Head Smut (<i>Sporisorium reilianum</i>)			

Application Methods:

At Planting Off Seed (2x0, 2x2, 2x2x2 dual placement): Apply Y6981-R002 LFR®fungicide to corn at planting at least ½” away from the seed, or placed off the row (i.e. 2x0, 2x2, 2x2x2 dual placement, or similar placements) within 4-inches of the seed, but avoiding direct contact with the seed.

*Refer to the table “Y6981-R002 LFR® fungicide Required Per Acre for Various Row Spacings” in Application and Mixing Instructions for application rates based on various row spacings.

Restrictions:

- **DO NOT** apply more than 0.228 lb of flutriafol/A per year including at-plant plus foliar applications of other flutriafol products.
- No single application may exceed 15.2 fl oz of product (0.228 lb ai)/A.
- **DO NOT** apply more than 1 at plant application per year.
- **DO NOT** apply more than 15.2 fl oz of product (0.228 lb ai)/A per year.
- Restricted Entry Interval (REI): The REI for detasselling field corn and popcorn grown for seed is 5 days. The REI for sweet corn is 3 days. The REI for all other activities is 12 hours.

Preharvest Interval (PHI): Zero (0) day of harvest for forage, and 7 days for stover and grain of field corn and popcorn and sweet corn.

Use Directions for Corn (At Planting In Furrow Application) (Field, Corn Grown for Grain, Seed or Silage, Popcorn, Sweet Corn)

Diseases	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft. *	Pound ai/A
Gray Leaf Spot <i>(Cercospora zeae-maydis)</i> Southern Corn Leaf Blight <i>(Bipolaris maydis)</i> Northern Corn Leaf Blight <i>(Exserohilum turcicum)</i> Common Rust <i>(Puccinia sorghi)</i> Suppression: Anthracnose Stalk Rot <i>(Colletotrichum graminicola)</i> Fusarium Stalk and Crown Rot <i>(Fusarium graminearum, Fusarium spp.)</i> Physoderma Brown Spot <i>(Physoderma maydis)</i> Head Smut <i>(Sporisorium reilianum)</i>	5.8 – 15.2	0.44 – 0.87	0.114 – 0.228
<ul style="list-style-type: none"> *Refer to the table “Y6981-R002 LFR® fungicide Required Per Acre for Various Row Spacings” in Application and Mixing Instructions for application rates based on various row spacings. Y6981-R002 LFR® fungicide may be applied to corn in-furrow at-planting when combined with water or starter fertilizers. 			

In-Furrow Precautions :

- In-furrow placement of Y6981-R002 LFR® fungicide in direct contact with the seed can result in uneven or delayed corn emergence, and possible stand loss. Conditions that can increase the degree of this response include cold soils, high salt content fertilizers, soil compaction and other seedling stresses. Planting into cold, high residue covered soils leading to a long emergence period can increase the emergence delay. To minimize this response, plant corn when soil temperatures are minimum of 55° F, with favorable growing conditions in the forecast.
- Avoid direct contact with the seed when soil temperatures are below 55°F and/or place Y6981-R002 LFR® fungicide a minimum of ½" away from the seed to reduce the risk for uneven emergence or stand loss.
- **DO NOT** apply in-furrow in combination with potassium thio-sulfate (KTS), Boron, or 28% or 32% UAN fertilizers.
- In-furrow applications of Y6981-R002 LFR® fungicide directly on the seed on sweet corn, seed corn, and popcorn can result in emergence delays and potential stand loss. Not all varieties, inbred lines, and hybrids have been tested for crop safety.
- **DO NOT** apply more than 0.44 oz/1000' in-furrow on sandy soils or soils with less than 1.5% O.M. High application rates in-furrow combined with sandy soils and/or heavy rainfall or irrigation and soil temperature below 50°F within 3 days of planting can result in emergence delays, unevenness or stand loss.

Restrictions:

- **DO NOT** apply more than 0.228 lb of flutriafol/A per year including at-plant plus foliar applications of other flutriafol products.
- No single application may exceed 15.2 fl oz of product (0.228 lb ai)/A.
- **DO NOT** apply more than 1 at plant application per year.
- **DO NOT** apply more than 15.2 fl oz of product (0.228 lb ai)/A per year.
- Restricted Entry Interval (REI): The REI for detasselling field corn and popcorn grown for seed is 5 days. The REI for sweet corn is 3 days. The REI for all other activities is 12 hours.
- Preharvest Interval (PHI): Zero (0) day of harvest for forage, and 7 days for stover and grain of field corn and popcorn and sweet corn.

Use Directions for Corn (Post Emergence) (Field, Corn Grown for Grain, Seed or Silage, Popcorn, Sweet Corn)

Diseases	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft. *	Pound ai/A
Gray Leaf Spot <i>(Cercospora zeae-maydis)</i> Southern Corn Leaf Blight <i>(Bipolaris maydis)</i> Northern Corn Leaf Blight <i>(Exserohilum turcicum)</i> Common Rust <i>(Puccinia sorghi)</i> Suppression: Anthracnose Stalk Rot <i>(Colletotrichum graminicola)</i> Fusarium Stalk and Crown Rot <i>(Fusarium graminearum,</i> <i>Fusarium spp.)</i> Physoderma Brown Spot <i>(Physoderma maydis)</i> Head Smut <i>(Sporisorium reilianum)</i>	5.8 – 15.2	0.44 – 0.87	0.114 – 0.228

*Refer to the table “Y6981-R002 LFR® fungicide Required Per Acre for Various Row Spacings” in Application and Mixing Instructions for application rates based on various row spacings.

Y6981-R002 LFR® fungicide can be applied to the soil after corn emergence dribbled or a concentrated band along side the row at the base of the plant. Rainfall or irrigation is required after application to move the fungicide into the soil for root uptake for maximum performance. Time applications earlier in the growing season (V2-V8 stage) for best results.

Restrictions:

- **DO NOT** apply more than 0.228 lb of flutriafol/A per year including at-plant plus foliar applications of other flutriafol products.
- No single application may exceed 15.2 fl oz of product (0.228 lb ai)/A.
- The minimum retreatment interval is 7 days.
- **DO NOT** apply more than 1 at plant application per year.
- Restricted Entry Interval (REI): The REI for detasselling field corn and popcorn grown for seed is 5 days. The REI for sweet corn is 3 days. The REI for all other activities is 12 hours.
- Preharvest Interval (PHI) : 0-day for forage harvest, and 7-days for stover, silage and grain of field corn and popcorn.

Use Directions for Cotton

Diseases	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft. *	Pound ai/A
Cotton Root Rot (<i>Phymatotrichopsis omnivora</i>)	8.7– 17.3	0.50 – 0.99	0.13 – 0.26

*Refer to the table “Y6981-R002 LFR® fungicide Required Per Acre for Various Row Spacings” in Application and Mixing Instructions for application rates based on various row spacings.

Application Methods:T-Band Application: Apply Y6981-R002 LFR® fungicide in a concentrated 3-4 inch wide band at planting perpendicular to row direction after furrow opening and seed placement but prior to furrow closure with press wheel.

Modified In-Furrow Application: Apply using a splitter/Y shaped application mechanism that directs the product on the sides of seed furrow and not in direct contact with the seed.

Drip Irrigation: This product may be applied through drip irrigation systems where drip tape is not deeper than 12 inches below the soil surface. Apply only through drip irrigation systems configured with drip tape directly below the row and running in the same direction as the rows.

Preplant Injection: Inject into the row up to 30 days prior to planting. Fungicide should be placed 2-3 inches directly below the seed placement zone.

Preemergence band: Apply in a 3-4 inch wide band (measured at the soil surface) directly over the row, prior to crop emergence.

Post-emergence band: Apply in a 3-4-inch wide band (measured at the soil surface) directly over the crop row, up to 2 true leaves.

Post-emergence directed: Apply directed to the soil at the base of the plants up to 4 true leaves.

- For Postemergence band and directed applications, apply in a manner that avoids crop interference and maximizes contact with the soil surface.

- Note that applications of Y6981-R002 LFR® fungicide to the soil surface are dependent on rainfall or irrigation to move the product into the cotton root zone. Lack of rainfall or irrigation can result in reduce product performance.

Application Methods to use by Field Irrigation Type

Overhead or Sprinkler Irrigation Fields:

- T-Band is the preferred application method under these cropping systems.
- Modified In-Furrow can be used. Avoid applying product in direct contact with seed.

Dryland Fields:

- Modified In-Furrow application technique may provide more consistent control under low rainfall conditions.
- Application using a T-Band method requires rainfall to move the product into the disease infection zone below the soil surface.

Furrow and Drip Irrigated Fields:

- Apply in T-Band, Modified In-Furrow, or through drip tape.
- When using the Modified In-Furrow application method sufficient irrigation must be applied to thoroughly wet the Y6981-R002 LFR® fungicide treated zone after cotton has emerged.
- For T-Band applications, the top of the bed must be thoroughly wetted after the cotton has emerged.
- Follow instructions in chemigation section of this label when applying through drip irrigation systems.

NOTICE for All Applications Methods and Field Conditions:

Heavy rainfall or irrigation within 3 days after planting may delay emergence.

Y6981-R002 LFR® fungicide provides full-season Cotton Root Rot control. In addition, provides foliar disease control/suppression through the growing season. For control of late-season infestations, heavy disease pressure situations, or foliar diseases not listed above, a supplemental foliar application may be needed.

Restrictions:

- **DO NOT** apply more than 0.26 lb flutriafol (17.3 fl oz of product)/A as an at-plant application.
- No single application may exceed 17.3 fl oz of product (0.26 lb ai)/A.
- **DO NOT** apply more than 1 at plant application per year.
- **DO NOT** apply more than 0.488 lb flutriafol per acre per year including at-plant plus foliar applications of other flutriafol products.
- Restricted Entry Interval (REI): 12 hours.
- Preharvest Interval (PHI) : 30 days.

Use Directions for Grain Sorghum

Diseases	USE RATES		
	Fluid oz/acre	Fluid oz/acre Fluid oz/1000 Linear ft. *	Pound ai/A
Anthracnose Leaf Blight <i>(Colletotrichum graminicola)</i> Gray Leaf Spot <i>(Cercospora sorghi)</i>	7.6 – 15.2	0.44 – 0.87	0.114 – 0.228
<p>*Refer to the table “Y6981-R002 LFR® fungicide Required Per Acre for Various Row Spacings” in Application and Mixing Instructions for application rates based on various row spacings.</p> <p>Application Methods:</p> <p>Y6981-R002 LFR® fungicide may be applied to grain sorghum in-furrow at planting off the row (i.e. 2x2 inch, 2x2x2 dual-placement, or similar placement) within 3 inches of the seed; or post-emergence directed to the soil at the base of the plant. Applications to the soil surface will require rainfall or irrigation to move the product into the soil to be taken up the plant.</p> <p>DO NOT apply Y6981-R002 LFR® fungicide in-furrow in direct contact with the sorghum seed as crop injury and stand loss can occur.</p> <p>Y6981-R002 LFR® fungicide soil applications provide foliar disease control/suppression through the growing season. For control of late-season infestations, heavy disease pressure situations, or foliar diseases not listed above, a supplemental foliar application may be needed.</p> <p>Restrictions:</p> <ul style="list-style-type: none"> • DO NOT apply more than 0.228 lb flutriafol per acre (15.2 fl oz product/A) per year including at-plant plus foliar applications of other flutriafol products. • No single application may exceed 15.2 fl oz of product (0.228 lb ai)/A. • DO NOT apply more than 1 at plant application per year. • Restricted Entry Interval (REI): 12 hours. • Preharvest Interval (PHI) : 30 days. 			

Use Directions for Sugar Beet

Diseases	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft. *	Pound ai/A
Cercospora Leaf Spot (<i>Cercospora beticola</i>)	7.6 – 15.2	0.44 – 0.87	0.114 – 0.228
Powdery Mildew (<i>Erysiphae polygoni</i>)			
<p>*Refer to the table “Y6981-R002 LFR® fungicide Required Per Acre for Various Row Spacings” in Application and Mixing Instructions for application rates based on various row spacings.</p> <p>Application Methods:</p> <p>Y6981-R002 LFR® fungicide may be applied to sugar beet off the seed (2x2, 2x2x2 inch placement or similar in-furrow at planting or post-emergence directed to the soil at the base of the plant.</p> <p>Y6981-R002 LFR® fungicide soil applications provide foliar disease control/suppression through the growing season. For control of late-season infestations, heavy disease pressure situations, or foliar diseases not listed above, a supplemental foliar application may be needed.</p>			
<p>Restrictions:</p> <ul style="list-style-type: none"> • DO NOT apply more than 0.228 lb flutriafol per acre (15.2 fl oz product/A) per year including at-plant plus foliar applications of other flutriafol products. • No single application may exceed 15.2 fl oz of product (0.228 lb ai)/A. • DO NOT apply more than 1 at plant application per year. • Restricted Entry Interval (REI): 12 hours. • Preharvest Interval (PHI) : 21 days. 			

Use Directions for Soybean

Diseases	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft.*	Pound ai/A
Charcoal Rot (<i>Macrophomina phaseolina</i>) Frogeye Leaf Spot (<i>Cercospora sojina</i>) Septoria Brown Spot (<i>Septoria glycines</i>)	7.6 – 15.2	0.44 – 0.87	0.114 – 0.228

*Refer to the table “Y6981-R002 LFR® fungicide Required Per Acre for Various Row Spacings” in Application and Mixing Instructions for application rates based on various row spacings.

Application Methods:

2x2, 2x2x2 dual placement off-seed : Y6981-R002 LFR® fungicide may be applied to soybean at planting off the row (i.e. 2x2 inch, 2x2x2 dual-placement, or similar placement) within 3 inches of the seed; or post-emergence directed to the soil at the base of the plant.

DO NOT apply Y6981-R002 LFR® fungicide in-furrow in direct contact with the soybean seed as crop injury and stand loss can occur.

Y6981-R002 LFR® fungicide soil applications provide foliar disease control/suppression through the growing season. For control of late-season infestations, heavy disease pressure situations, or foliar diseases not listed above, a supplemental foliar application may be needed.

Restrictions:

- **DO NOT** apply more than 17.3 fl oz/A (0.26 lb ai/A) of Y6981-R002 LFR® fungicide in a single at-plant application.
- **DO NOT** apply more than 1 at-plant application per year.
- **DO NOT** apply more than 0.488 lb ai of flutriafol per acre per year including at-plant plus foliar applications.
DO NOT feed forage or hay to animals or permit animals to graze.
- Restricted Entry Interval (REI): 12 hours.
- Preharvest Interval (PHI) : 21 days.

Use Directions for Wheat (Spring and Winter) and Triticale

Diseases	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft. *	Pound ai/A
Rust (<i>Puccinia</i> spp.) Powdery Mildew (<i>Blumeria graminis</i>) Stagonospora leaf / glume blotch (<i>Parastagonospora nodorum</i>) Tan spot (<i>Pyrenophora tritici-repentis</i>) Septoria leaf blotch (<i>Zymoseptoria tritici</i>) Common bunt (<i>Tilletia caries</i> and <i>Tilletia laevis</i>) Take-all (<i>Gaeumannomyces graminis</i> var. <i>tritici</i>)	2.9 - 15.2	0.11 – 0.22	0.041 – 0.228
<p>*Refer to the table “Y6981-R002 LFR® fungicide Required Per Acre for Various Row Spacings” in Application and Mixing Instructions for application rates based on various row spacings.</p> <p>Application Methods:</p> <p>Broadcast Spray: Y6981-R002 LFR® fungicide may be applied as a broadcast preemergence or postemergence spray.</p> <p>Streamer bar : Y6981-R002 LFR® fungicide can be applied with liquid fertilizer or water via a solid stream using a streamer bar directing the product to the soil for uptake by plant roots.</p>			

Dry fertilizer impregnation: Y6981-R002 LFR® fungicide can be impregnated on dry fertilizer and applied as a broadcast application. Uniform spreading of the dry fertilizer is required for maximum performance. Uneven spreading can lead to inconsistent uptake and reduced performance.

- Apply postemergence spray, streamer bar and dry fertilizer applications when the crop is small and before joint stage for best disease control.

Y6981-R002 LFR® fungicide soil applications provide foliar disease control/suppression through the growing season. For control of late-season infestations, heavy disease pressure situations, or foliar diseases not listed above, a supplemental foliar application may be needed.

Restrictions:

- **DO NOT** apply more than 15.2 fl oz product/A (0.228 lb ai/A) in a single application.
- **DO NOT** apply more than 1 at-plant application per year.
- **DO NOT** apply more than 0.228 lb flutriafol per acre (15.2 fl oz product/A) per year including at-plant plus foliar applications of other flutriafol products.
- Restricted Entry Interval (REI): 12 hours.
- Preharvest Interval (PHI) : **DO NOT** apply within 30 days of harvest for grain, 15 days of harvest for hay, and zero (0) day when harvesting for forage.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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.

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