



**U.S. ENVIRONMENTAL PROTECTION AGENCY**

Office of Chemical Safety and Pollution Prevention  
Office of Pesticide Programs  
Registration Division (7504P)  
1200 Pennsylvania Ave., N.W.  
Washington, DC 20460

EPA Reg. Number:

**60063-54**

Date of Issuance:

**AUG 28 2014**

Term of Issuance:

Conditional

Name of Pesticide Product:

**Flud-E 1SC Turf Fungicide**

**NOTICE OF PESTICIDE:**

- Registration
- Reregistration
- Under FIFRA, as amended

Name and Address of Registrant (include ZIP Code):

**Sipcam Agro USA, Inc.**  
**2525 Meridian Parkway, Suite 350**  
**Durham, NC 27713**

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

The application referred to above, submitted under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended is acceptable under FIFRA sec. (3(c)(7)(A) subject to the following conditions:

1. You must submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. You are required to comply with the Data Call-in identified below in a timely and adequate manner and submit your responses to Carissa Cyran. DCI# GDCI-071503-1243, issued on 12/5/2012. A copy of the DCI is attached.

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Signature of Approving Official:

Shaja B. Joyner, Product Manager (20)  
Fungicide Branch/Registration Division/OPP/OCSP (7504P)

Date:

**AUG 28 2014**

3. You must comply with all of the data requirements in the referenced order within the deadlines established by the order. In the case of this DCI, those deadlines are measured from 12/5/2012. If you fail to satisfy the requirements in this Order, EPA will consider appropriate regulatory action, including, among other things, cancellation under FIFRA section 6(e).

Make the following change to the label:

- a. Change the product registration number to "EPA Reg. No. 60063-54"

Submit one copy of the revised final printed label for the record before the product is released for shipment.

The basic Confidential Statement of Formula (CSF) dated 4/22/2014 is acceptable.

If these requirements are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A copy of your label stamped "Accepted" is enclosed for your records.

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Shaja B. Joyner  
Product Manager (20)  
Fungicide Branch  
Registration Division (7504P)

Enclosure:

Label stamped "Accepted"

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SipcamAdvan  
The Natural Choice™

ACCEPTED

AUG 28 2014

Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended, for the  
pesticide registered under:

EPA Reg. No: 60063-54

### FLUD-E 1SC Turf Fungicide

For control of certain foliar, stem, and root diseases in turfgrass including golf courses, institutional, commercial and residential lawns, sod farms, sports fields, parks, municipal grounds and cemeteries.

Sale, use and distribution of this product in Nassau and Suffolk counties in the State of New York is prohibited.

**Active Ingredient:**

Fludioxonil (CAS No. 131341-86-1) .....	11.8%
Other Ingredients: .....	88.2%
Total: .....	100.0%

FLUD-E 1SC Turf Fungicide is a suspension concentrate containing 1.04 pounds active ingredient per gallon.

## KEEP OUT OF REACH OF CHILDREN.

### CAUTION

See additional precautionary statements and directions for use inside booklet.

#### 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 by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
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 or label with you when calling doctor, poison control or going for treatment.	
Emergency Phone Numbers: (800) 858-7378 NPIC (human and animal health) (800) 424-9300 CHEMTREC (transportation and spills)	

EPA Reg. No. 60063—x

NET CONTENTS: Gallons

EPA Est. No.

MANUFACTURED FOR:  
Sipcam Agro USA, Inc.  
2525 Meridian Parkway, Suite 350  
Durham, NC 27713

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**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

**USER SAFETY REQUIREMENTS**

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.

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

**USER SAFETY RECOMMENDATIONS**

Users should:

- Wash hands with soap and water 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.
- 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**

For terrestrial uses: This product is toxic to fish, aquatic invertebrates, and oysters and shrimp. Do not apply directly to water, 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

This chemical has properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

SURFACE WATER ADVISORY

This chemical may contaminate water through drift of spray in wind. This chemical has a high potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this chemical. A level, well maintained vegetative buffer strip between areas to which this chemical is applied and surface water features such as ponds, streams, and springs, will reduce the potential for contamination of water from rainfall runoff. Runoff of this chemical will be reduced by avoiding applications when conditions favor runoff, such as when soils are saturated and/or significant rainfall is forecast in the next 48 hours. Sound erosion control practices will reduce this chemical's contribution to surface water contamination.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame. Do not mix or allow coming into contact with oxidizing agent. Hazardous chemical reaction may occur.

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR DISEASE CONTROL OR PLANT INJURY.

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.

**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.

Exception: If the product is applied by drenching, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made from any waterproof material
- Shoes plus socks
- Protective eyewear

**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in 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.

Do not enter treated areas without protective clothing until sprays have dried.

**USE RESTRICTIONS AND PRECAUTIONS**

Sale, use and distribution of this product in Nassau and Suffolk counties in the State of New York is prohibited.

**RESISTANCE MANAGEMENT**

**GROUP 12 FUNGICIDE**

FLUD-E 1SC Turf Fungicide is a protective fungicide used to aid in the control of soil-borne diseases.

FLUD-E 1SC Turf Fungicide contains fludioxonil which is in the phenylpyrrole class of chemistry and has a unique mode of action, which prevents fungal respiration (Fungicide Action Group 12). Fungal isolates with acquired resistance to Group 12 may eventually dominate the fungal population if Group 12 fungicides are used repeatedly or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by fludioxonil or other Group 12 fungicides. A disease management program that includes alternation or tank mixes between FLUD-E 1SC Turf Fungicide and other labeled fungicides that have a different mode of action, may prevent pathogen populations from developing resistance. Cultural practices to minimize disease are also recommended to aid in control, as well as to assist in preventing/ delaying resistance development.

### MIXING PROCEDURES

Prepare no more mixture than is needed for the immediate operation. Thoroughly clean the spray equipment before using this product. Agitation is necessary to maintain uniformity of the spray mixture. Maintain maximum agitation throughout the spraying operation. Do not let the spray mixture stand overnight in the spray tank. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area.

**FLUD-E 1SC Turf Fungicide Alone:** Add 1/3 of the required amount of water to the spray or mixing tank. With the agitator running, add the required amount of this product into the spray tank all at once. Continue agitation while adding the remainder of the water. Begin application of the spray solution after the material has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

**FLUD-E 1SC Turf Fungicide + Tank Mixtures:** To determine the physical compatibility of this product with other products, use a jar test, as described below.

**Jar Compatibility Test:** Using a quart jar, add the proportionate amounts of the products to 1 qt. of water. Add wettable powders and water-dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 5 minutes. If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

To determine biological compatibility with other products, mix the products in the desired proportions, apply per label directions on a small area or small number of plants for phytotoxicity prior to widespread use.

If using FLUD-E 1SC Turf Fungicide in a tank mixture, observe all directions for use, use rates, dilution ratios, precautions, and limitations which appear on the tank-mix product label. No label dosage rate should be exceeded and the most restrictive label precautions and limitations should be followed. This product should not be mixed with any product which prohibits such mixing. Tank mixtures are permitted only in those states where the tank-mix partner is registered.

Add 1/3 of the required amount of water to the spray or mixing tank. With the agitator running, add the required amount of this product into the tank. Continue agitation while adding the remainder of the water. Then add the desired amount of other products recommended for tank mixture and allow them to become completely dispersed. Continue agitation to maintain a uniform suspension until all of the spray solution has been applied.

### TURFGRASS

FLUD-E 1SC Turf Fungicide is a protectant fungicide for control of certain diseases of turfgrass.

FLUD-E 1SC Turf Fungicide provides control of brown patch, leaf spot, yellow patch, summer patch, anthracnose, gray leaf spot, bentgrass dead spot, and pink and gray snow mold when used in an integrated, preventive disease management program. For control of other diseases of turfgrass such as pythium blight, and yellow tuft, use Proplant.

- Use FLUD-E 1SC Turf Fungicide as a foliar spray in an integrated, preventive disease management program alone or in combination with other fungicides containing the active ingredients chlorothalonil, propamocarb, propiconazole or azoxystrobin
- Apply in sufficient water to ensure thorough coverage.
- Apply after mowing.
- For control of foliar diseases, allow sprayed area to completely dry before irrigation.
- Under conditions optimum for high disease pressure, use the higher rate and the shorter interval.
- For optimum turfgrass quality and disease control, use this product in conjunction with turfgrass management practices that promote good plant health and optimum disease control.

- Before use of any fungicide, proper diagnosis of the organism causing the disease is important. Use of diagnostic kits or other means of identification of the disease is essential to determine the best control measures.

Notes: (1) To avoid possible illegal residues, do not graze animals on treated areas, and, (2) Do not feed clippings from treated areas to livestock or poultry. (3) Do not apply more than 6 fluid ounces of fludioxonil per 1,000 sq. ft. per year on turfgrass.

### Turfgrass Disease Control With FLUD-E 1SC Turf Fungicide

DISEASE	RATE PRODUCT/ 1000 SQ.FT.	APPLICATION INTERVAL	INSTRUCTIONS
Brown Patch ( <i>Rhizoctonia solani</i> )	0.75 - 1.0 fl. oz.	7 days	Begin applications prior to disease development. For extended and more broad spectrum disease control (up to 21 days), tank-mix with labeled rates of a fungicide containing the active ingredient azoxystrobin.
	2.0 fl. oz.	14 days	
Brown Ring Patch ( <i>Waitea circinata</i> var. <i>circinata</i> ) Rhizoctonia Leaf and Sheath Spot ( <i>Waitea circinata</i> var. <i>zeae</i> , <i>Rhizoctonia zeae</i> )	1.0 - 2.0 fl. oz.	7-14 days	Apply when conditions are favorable for disease development. For best control, use as a component of a preventive disease control program.
Bentgrass Dead Spot ( <i>Ophiosphaerella agrostis</i> )	1.15 - 2.0 fl. oz.	14 days	Begin applications prior to disease development. For more broad spectrum disease control, tank-mix this product with labeled rates of a fungicide containing the active ingredient propiconazole.
Anthracnose ( <i>Colletotrichum graminicola</i> )	1.0 - 2.0 fl. oz.	14 days	Begin applications prior to disease development. For best control, use as a component of a preventive disease control program.
Leaf Spot ( <i>Bipolaris</i> spp., <i>Drechslera</i> spp.)	1.0 - 2.0 fl. oz.	14 - 21 days	Apply when conditions are favorable for disease development.
Summer Patch ( <i>Magnaporthe poae</i> )	2.0 fl. oz.	14 days	Apply when conditions are favorable for disease development. For best disease control, tank-mix this product with labeled rates of a fungicide containing the active ingredient azoxystrobin.
Yellow Patch ( <i>Rhizoctonia/Ceratorhiza cerealis</i> )	2.0 fl. oz.	Spring/Fall	Apply when yellow patch rings are first observed in the spring or fall. A second application can be made 14 days later. For best disease control, tank-mix this product with labeled rates of a fungicide containing the active ingredient propiconazole.
Snow Mold: Gray ( <i>Typhula incarnata</i> , <i>Typhula ishikariensis</i> ) Pink ( <i>Microdochium nivale</i> )	2.0 fl. oz.	Late Fall	Apply one to two applications in late fall before snow cover. Do not apply on top of snow. For best disease control, tank-mix with one to two registered snow mold products. FLUD-E 1SC Turf Fungicide at the 1.0-1.15 fl. oz. rate can be used when tank mixing with products containing propiconazole and chlorothalonil when disease conditions are expected to be light to moderate.
Microdochium Patch, Fusarium patch ( <i>Microdochium nivale</i> , <i>Fusarium</i> spp.)	1.0 - 2.0 fl. oz.	7 - 14 days	For the control of microdochium patch without snow cover. Under heavy infestations combine with a fungicide containing the active ingredient propiconazole. Repeat applications can be made at 7- to 14-day intervals when conditions are favorable for disease development.
Gray Leaf Spot ( <i>Pyricularia grisea</i> )	1.0 - 2.0 fl. oz.	14 days	Apply when conditions are favorable for disease development. For best control, use as a component of a preventive disease control program.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store in a cool, dry, secure place. Do not store this product under wet conditions.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinse water is a violation of Federal Law. If these wastes cannot be used 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 in proper disposal methods.

**CONTAINER HANDLING [less than or equal to 5 gallons]:** Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 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 offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

**CONTAINER HANDLING [greater than 5 gallons]:** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.

**WARRANTY AND LIMITATION OF DAMAGES**

**CONDITIONS OF SALE:** To the extent consistent with applicable law, Sipcam Agro USA, Inc. 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 accordance with the directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to Sipcam Agro USA, Inc. **SIPCAM AGRO USA, INC. DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.** To the extent consistent with applicable law, **SIPCAM AGRO USA, INC. SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, AND SIPCAM AGRO USA, INC.'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER AND USER ACKNOWLEDGE AND ASSUME ALL RISKS AND LIABILITY RESULTING FROM HANDLING, STORAGE AND USE OF THIS PRODUCT. SIPCAM AGRO USA, INC. DOES NOT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTY, GUARANTEE OR REPRESENTATION CONCERNING THIS PRODUCT.**

FLUD-E 1SC Turf Fungicide Submitted 20140422, EPA Approved