

71512-20

8/26/2014

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460



OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Michael A. Peplowski
Manager, Product Registrations
ISK Biosciences Corporation
7470 Auburn Road, Suite A
Concord, OH 44077

AUG 26 2014

Subject: Label Amendment – Addition of application buffer zone as requested by the state of New York
Product Name: Fluazinam Turf Fungicide
EPA Registration Number: 71512-20
Application Date: 5/28/2014
Decision Number: 492023

Dear Mr. Peplowski:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable.

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.

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(e). If you have any questions, please contact Lindsay Roe by phone at 703-347-0506, or via email at roe.lindsay@epa.gov.

Sincerely,

A handwritten signature in black ink that reads "Tony Kish".

Tony Kish, Product Manager 22
Fungicide Branch
Registration Division (7505P)
Office of Pesticide Programs

Enclosure



FLUAZINAM TURF FUNGICIDE

For use to control diseases of turf grasses on golf courses only.

ACTIVE INGREDIENT: Fluazinam* 40.0%

OTHER INGREDIENTS: 60.0%

Total..... 100.0%

*3-chloro-N-[3-chloro-2,6-dinitro-4-trifluoromethyl]phenyl]-5-trifluoromethyl-2-pyridinamine (CA)

Contains 4.17 pounds Fluazinam Per Gallon (500 grams per liter)

KEEP OUT OF REACH OF CHILDREN

WARNING - AVISO

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

See side panel for additional precautionary statements.

Read entire label carefully and use only as directed.

ISK Biosciences Corporation

7470 Auburn Road, Suite A
Concord, Ohio 44077

EPA Reg. No. 71512-20

Active ingredient made in Korea

Formulated in USA

Net Contents: 2.5 Gallons

EPA Est. No. 1022-TN-001

ACCEPTED

AUG 26 2014

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 71512 - 20

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FIRST AID	
If on skin	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything to an unconscious person.
NOTE TO PHYSICIAN	
Probable mucosal damage may contraindicate the use of gastric lavage.	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
HOT LINE NUMBER	
<p>For 24-Hour Medical Emergency Assistance Call 1-888-484-7546.</p> <p>For Chemical Emergency, Spill, Leak, Fire or Accident, Call CHEMTREC 1-800-424-9300.</p>	

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING - AVISO

Causes skin irritation. Harmful if absorbed through skin. Causes moderate eye irritation. Harmful if inhaled or swallowed. Do not get on skin or on clothing. Avoid contact with eyes. Avoid breathing spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before use. Do not take internally.

Personal Protective Equipment (PPE)

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

Applicators and other handlers must wear:

- Coveralls worn over long-sleeved shirt, long pants
- Socks and chemical resistant footwear
- Chemical resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride
- Protective eyewear.

When mixing and loading, or when cleaning equipment, also wear a chemical resistant apron. Mixer/loaders must wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with an N, R, P, or HE filter.

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. Do not allow contact of contaminated clothing with unprotected skin.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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 Control Statements

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.

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down. Do not allow contact between contaminated sprayer parts and unprotected skin. Ensure sprayer is washed down daily.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- 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.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This 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 cleaning equipment or disposing of equipment wash waters or rinsate. Do not apply when weather conditions favor drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original container, in a secured, cool, dry place separate from food and feed. Do not store near heat or open flame.

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PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, pesticide spray 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. 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 ¼ 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 or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

WARRANTY AND LIMITATION OF DAMAGES

To the extent consistent with applicable law, Seller warrants to those persons lawfully acquiring title to this product that at the time of first sale of this product by Seller that this product conformed to its chemical description and was reasonably fit for the purposes stated on the label when used in accordance with Seller's directions under normal conditions of use, and Buyers and users of this product assume the risk of any use contrary to such directions. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, EXCEPT AS PROVIDED ELSEWHERE IN WRITING CONTAINING AN EXPRESS REFERENCE TO THIS WARRANTY AND LIMITATION OF DAMAGES, SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OR GUARANTY, OF FITNESS OR OF MERCHANTABILITY, AND NO AGENT OF INCLUDING ANY OTHER EXPRESS OR IMPLIED WARRANTY SELLER IS AUTHORIZED TO DO SO. To the extent consistent with applicable law, in no event shall Seller's liability for any breach of warranty or guaranty exceed the purchase price of the product as to which a claim is made. Buyers and users of this product are responsible for all loss or damage from use or handling of this product which results from conditions beyond the control of Seller, including, but not limited to, incompatibility with other products unless otherwise expressly provided in Directions for Use of this product,

weather conditions, cultural practices, moisture conditions or other environmental conditions outside of the ranges that are generally recognized as being conducive to good agricultural and/or horticultural practices.

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 USE DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN TURF INJURY, POOR DISEASE CONTROL, AND/OR ILLEGAL RESIDUES.

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.

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. Turf grasses on golf courses are not within the scope of the Worker Protection Standard.

Do not enter or allow others to enter the treated area until sprays have dried.

PRODUCT INFORMATION

Fluazinam Turf is a broad spectrum fungicide for use to control diseases of turf grasses on golf courses only.

Use Restrictions and Precautions

- Do Not apply Fluazinam Turf to home lawns (turf) or any other residential turf
- Do Not apply Fluazinam Turf by aerial application
- Do Not apply Fluazinam Turf through any irrigation system
- Do Not apply Fluazinam Turf within 25 feet of permanent water bodies (lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, and estuaries).

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- In the State of New York, Do Not apply Fluazinam Turf within 100 feet of water bodies that are connected to other off site surface waters.
- Do Not apply Fluazinam Turf when the wind direction is toward aquatic areas to minimize drift to these areas.

Fluazinam Turf may be applied with all types of spray equipment normally used for ground applications on golf courses.

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR. The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator is responsible for considering all these factors when making decisions. Where states have more stringent regulations, they must be observed.

INTEGRATED PEST MANAGEMENT

Fluazinam Turf is an excellent disease control agent when used according to label directions for control of a broad spectrum of listed plant diseases. Fluazinam Turf is recommended for use in programs which are compatible with the principles of Integrated Pest Management (IPM), which may include the use of disease resistant crop varieties, cultural practices, biological control agents, pest scouting and disease forecasting systems aimed at preventing economic pest damage and reducing unnecessary applications of pesticides. Practices known to reduce disease development should be followed. Consult your state cooperative extension service or local agricultural authorities for additional IPM strategies established in your area. Fluazinam Turf may be used in State Agricultural Extension advisory (disease forecasting) programs that recommend application timing based on environmental factors which favor disease development.

RESISTANCE MANAGEMENT

Some plant pathogens are known to develop resistance to products used repeatedly for disease control. Fluazinam Turf is effective for strategic use in fungicide disease management programs that attempt to minimize disease resistance to fungicides. Fluazinam Turf has a multi-site mode of action that disrupts the energy production in the fungus. It is listed in FRAC code 29, as an inhibitor of oxidative phosphorylation. Some other fungicides, which are at risk from disease resistance, exhibit a single-site mode of fungicidal action. Fluazinam Turf, with its multi-site mode of action, may be used to prevent or delay the development of

resistance to single-site fungicides when used as a tank-mix partner or alternated in a disease management program.

Fluazinam Turf has demonstrated excellent control of *Sclerotinia homeocarpa*, *Lanzia* and *Moellerodiscus* strains (causing Dollar Spot) that are insensitive to several classes of fungicides.

Consult with your Federal or State Cooperative Extension Service representatives for guidance on the proper use of Fluazinam Turf in programs that seek to minimize the occurrence of disease resistance to other fungicides. Fluazinam Turf is an excellent partner for those products that specify the use of a protectant or other fungicide that has a different mode of action.

PLANT TOLERANCE

Note to User: Although Fluazinam Turf has been evaluated on several turf species with no indication of phytotoxicity, neither the manufacturer nor seller has determined whether or not Fluazinam Turf can be used safely on all turf species. The professional user should determine if Fluazinam Turf can be used safely prior to commercial use by testing on the type of turf to be treated at recommended rates for phytotoxicity.

MIXING AND SPRAYING

Fluazinam Turf can be used effectively in dilute sprays. Thorough, uniform coverage is essential for disease control.

NOTE: Slowly invert container several times to assure uniform mixture.

Prepare only the amount of spray mixture required for immediate use. Thoroughly clean spray equipment before using this product. Vigorous agitation is necessary for proper dispersal of the product. Maintain maximum agitation throughout the spraying operation. Do not allow spray mixture to stand overnight or for prolonged periods in the spray tank. Spraying equipment should be thoroughly cleaned immediately after the application.

Fluazinam Turf Alone: Fill the spray tank with half of the required amount of water with the agitator running, add Fluazinam Turf to the spray tank. Continue agitation while adding the remainder of the water. Begin application of the solution after Fluazinam Turf has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied. **Tank Mixtures:** Fluazinam Turf is physically

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compatible with many products recommended for control of diseases, liquid fertilizers, growth regulators, insecticides and biological control products. If tank mixes are desired, read and follow all directions, precautions, and limitations on labeling of all products used. This product must not be mixed with any product which prohibits such mixing. It is the applicator's responsibility to ensure that the companion product is EPA approved for use on the intended site. Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are registered.

Fluazinam Turf is generally compatible with the products mentioned above, provided sufficient free water is available for dispersion of all the tank mix products. However, the physical compatibility of Fluazinam Turf with tank mix partners should be evaluated before use. A jar test should be conducted with intended tank-mix products prior to preparation of large volumes. Use the following procedure: 1) Pour the recommended proportions of the products into a suitable container of water, 2) Mix thoroughly and 3) Allow to stand for 5 minutes. If the combination remains mixed or can be re-mixed readily, it is considered physically compatible. Any physical incompatibility in the jar test indicates that Fluazinam Turf should not be used in the tank-mix.

Consult compatibility charts or your local or state agricultural authorities for additional compatibility information.

To prepare spray solution, add 1/2 of the required amount of water to the mix/ sprayer tank. Start the agitator running before adding any tank mix partners. In general, add tank mix partners in this order: products packaged in water-soluble packaging, wettable powders, wettable granules (dry flowables), liquid flowables (such as Fluazinam Turf), liquids, and emulsifiable concentrates. Always allow each tank mix partner to become fully dispersed before adding the next product. Provide sufficient agitation while adding the remainder of the water. Maintain agitation until all of the mixture has been applied.

When using Fluazinam Turf in tank mixtures, add all products in water-soluble packaging to the tank before any other tank mix partner, including Fluazinam Turf. Allow the water-soluble packaging to completely dissolve and the products to completely disperse before adding any other tank mix partner to the tank.

Use a pump with capacity to maintain the correct rated pressure for the nozzles selected. Maintain sufficient agitation to keep mixture in suspension. Use a jet agitator, liquid sparge tube, or mechanical paddle for agitation.

Use screens to prevent nozzles from clogging. Use 50-mesh or coarser screens placed after the tank and before the nozzles. Check nozzle manufacturer's recommendations. For more information on spray equipment and calibration, consult sprayer manufacturers and state recommendations.

Apply Fluazinam Turf in sufficient water to obtain adequate uniform coverage of the turf. Apply in a minimum spray volume of 40 gal of water per acre on fairways and 90 gal of water per acre on tees and greens.

Turfgrass Disease Control

1. Use Fluazinam Turf in a Preventative Disease Control Program.
2. Apply in sufficient water to ensure thorough coverage.
3. Apply after mowing or allow sprayed area to completely dry before mowing.
4. For control of foliar diseases, allow sprayed area to completely dry before irrigation.
5. For optimum turf quality and disease control, use Fluazinam Turf in conjunction with turf management practices that promote good plant health and optimum disease control.
6. Evaluate spray additives prior to use. Label directions are based on data obtained with no additives.
7. 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 organism is essential to determine the best control measures.
8. DO NOT exceed 258 fl oz. of Fluazinam Turf (8.4 pounds active ingredient) per acre per year.
9. DO NOT apply more than twelve (12) applications at 21.5 fl. oz. per acre (0.5 fl oz./1000 sq. ft.) per year.

U.S. PATENT OFFICE

FLUAZINAM TURF USE RATE			
Diseases Controlled Pathogen(s)	Application Interval (days)	Rate fl oz. product/ 1000 sq. ft.	Instructions for Use on Golf Course Tees, Greens, Fairways and Roughs
Dollar Spot <i>Sclerotinia homoeocarpa</i> , <i>Lanzia</i> spp. <i>Moellerodiscus</i> spp.	14	0.5	Apply as a preventative disease program, starting when conditions become favorable for disease. For broad spectrum disease control or for control greater than 14 days, tank mix with the labeled rate of one of the following fungicides: Banner MAXX® Headway® Concert®
Leaf spot, Melting-out, Brown blight <i>Drechslera</i> spp. (including <i>D. poae</i> , <i>D. siccans</i>)	14	0.5	Apply when conditions become favorable for disease. For broad spectrum disease control tank mix with the labeled rate of one of the following fungicides: Banner MAXX Headway or Concert
Brown patch Large patch <i>Rhizoctonia solani</i>	14	0.5	Begin applications in May or June before disease is present for Brown patch. To control Large patch, apply in fall when temperature drops below 70 °F. For broad spectrum control or for control greater than 14 days, tank mix with the labeled rate of one of the following fungicides: Banner MAXX Heritage® 50WG Heritage® TL Headway
Red Thread <i>Laeisaria fuciformis</i>	14	0.5	Apply when conditions become favorable for disease.
Anthraxnose <i>Colletotrichum cereale</i>	14	0.5	Applications should be made prior to infection. Alternate or mix Fluzinam Turf with another fungicide for anthracnose disease prevention. Fluzinam Turf should be mixed with another fungicide such as: Daconil WeatherStik®, Daconil Ultrex®, Banner MAXX, Medallion®, Headway, Concert, Renown®, Instrata®

Diseases Controlled Pathogen(s)	Application Interval (days)	Rate fl oz. product/ 1000 sq. ft.	Instructions for Use on Golf Course Tees, Greens, Fairways and Roughs (Continued)
Gray Snow Mold <i>Typhula</i> spp. Pink Snow Mold <i>Microdochium nivale</i>	Late Fall	0.5	Apply one to two applications in the late fall before snow cover. Do not apply on top of the snow. For optimum disease control tank mix with the labeled rate of one of the following fungicides: Banner MAXX Heritage Headway Medallion Instrata
Pink patch <i>Microdochium nivale</i>	14	0.5	Apply in the fall or early spring when conditions are favorable for disease development. For optimum disease control tank mix with the labeled rate of one of the following fungicides: Banner MAXX Heritage Headway Medallion Instrata
Stem rust <i>Puccinia graminis</i> var. <i>graminicola</i>	14	0.5	Apply on a preventative schedule when disease conditions are favorable (cool & cloudy weather).
Algal scum (filamentous blue-green algae/cyanobacteria)	14	0.5	Fluazinam 500F should be tank-mixed with another fungicide such as: Daconil WeatherStik Daconil Ultrex Daconil Zn Concert Renown

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