

71512-13

02/16/2007

June 11/12



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

71512-13

Date of Issuance:

FEB 16 2007

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Cyazofamid 400SC Turf and
Ornamental Fungicide

Name and Address of Registrant (include ZIP Code):

ISK Biosciences Corporation
7470 Auburn Road, Suite A
Concord, Ohio 44077

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/reregistered 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.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(B) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. You submit the conditional data listed in the attached Environmental Fate and Ecological Effects Risk Assessment, no later than two years from the date of this Notice.

(continued on page 2)

Signature of Approving Official:

Cynthia Giles-Parker, Chief
Fungicide Branch, Registration Division (7505P)

Date:

FEB 16 2007

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A summary of the environmental and ecological effects conditional data requirements is below. See the attached documents for more detailed descriptions of all the conditional data requirements covered in this Notice and including risks to human health.

Environmental Fate:

- A) Aerobic soil (only for two soils from use relevant US soils);
- B) Anaerobic aquatic metabolism (only for one water sediment system);
- C) Adsorption/desorption (only for parent using two US soils from relevant use areas of the US);
- D) Accumulation in fish study.

The aerobic aquatic metabolism on one water sediment system is held in reserve pending submittal/review of requested studies: items A and B above.

Ecological Effects:

- a) Data on the limit of solubility of cyazofamid and its degradates in saltwater;
- b) A new avian reproduction study using bobwhites quail that establishes valid NOAECs for parent cyazofamid;
- c) A new freshwater invertebrate life cycle test using the parent;
- d) Testing at the increased rate of 1.56 lbs ai/A for terrestrial plants.

3. You must submit two copies of a final printed label within 30 days from the date of this notice which makes the following changes:

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA Section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A copy of the label stamped "Accepted with comments" is enclosed for your records.

Sincerely,

Cynthia Giles-Parker,
Branch Chief,
Fungicide Branch
Registration Division (7505C)

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Group 21 Fungicide



CYAZOFAMID 400SC

TURF AND ORNAMENTAL FUNGICIDE

ACTIVE INGREDIENT:

Cyazofamid*	34.5%
OTHER INGREDIENTS	65.5%
Total	100.0%

*4-chloro-2-cyano-*N,N*-dimethyl-5-(4-methylphenyl)-1*H*-imidazole-1-sulfonamide (CA)

Contains 3.33 pounds Cyazofamid Per Gallon (400 grams per liter)

KEEP OUT OF REACH OF CHILDREN

CAUTION

See side panel for additional precautionary statements.

Read entire label carefully and use only as directed.

Manufactured in France

Net Contents: 5 Gallons

ISK Biosciences Corporation
7470 Auburn Road, Suite A
Concord, Ohio 44077

ISKBC-2200712

EPA Reg. No. 71512-13
EPA Est. No.

ACCEPTED
with **COMMENTS**
In EPA Letter Dated
FEB 16 2007
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

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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 soap and 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. • Call a poison control center or doctor for 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 by mouth to an unconscious person.
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.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	
<p>HOT LINE NUMBER For 24-Hour Medical Emergency Assistance (Human or Animal) Call 1-888-484-7546. For Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call CHEMTREC 1-800-424-9300.</p>	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. DO NOT take internally.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear long-sleeved shirt and long pants, socks, shoes, and chemical resistant gloves made of any waterproof material.

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. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Control Statements

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.

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.

User Safety Recommendations
Users should:
* Wash hands thoroughly 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. Wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

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 waters when disposing of equipment wash waters or rinsate.

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

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

STORAGE: Store in original container, in a secured, dry place separate from other pesticides, fertilizer, food, and feed.

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 DISPOSAL: DO NOT reuse empty container. Triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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 PLANT INJURY OR POOR DISEASE CONTROL.

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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 four (12) hours.

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

- coveralls,
- chemical resistant gloves (made of any waterproof material), and
- shoes plus socks.

Sod and seed farms, commercial greenhouses and nurseries are within the scope of the Worker Protection Standard.

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 and other non-residential turf areas such as industrial parks, tank farms, professionally managed college and professional sports fields, commercial lawns and ornamental landscapes are not within the scope of the Worker Protection Standard. Keep children, pets, and unprotected persons out of the treated area until sprays have dried.

GENERAL INFORMATION

Cyazofamid 400SC is a flowable suspension concentrate for control of Pythium and Downy mildew diseases on professionally managed turf areas such as golf courses (including greens, tees and fairways), sod farms, seed farms, college and professional sports fields and commercial lawns. Cyazofamid 400SC can also be used to control Pythium, Phytophthora and Downy mildew diseases on ornamental plants in landscapes and those grown in commercial greenhouses and nurseries. Application by home-owners to residential turf is prohibited.

INTEGRATED PEST MANAGEMENT

Cyazofamid 400SC is an excellent disease control agent when used according to label directions for control of several Oomycete fungi. Although Cyazofamid 400SC has limited systemic activity, it should be utilized as a protectant fungicide and applied before the disease infects the crop.

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Depending upon the level of disease pressure, good protection of the crop against disease can be expected over a period of 7 to 28 days.

Cyazofamid 400SC is recommended for use as part of an Integrated Pest Management (IPM) program, which may include the use of disease-resistant crop varieties, cultural practices, crop rotation, biological disease control agents, pest scouting and disease forecasting systems aimed at preventing economic pest damage. 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. Cyazofamid 400SC may be used in State Agricultural Extension advisory (disease forecasting) programs that recommend application timing based upon environmental factors that favor disease development.

RESISTANCE MANAGEMENT

Some plant pathogens are known to develop resistance to products used repeatedly for disease control. Cyazofamid 400SC's mode/target site of action is complex III of fungal respiration: ubiquinone reductase, Qi site (Fungicide Resistance Action Committee code 21). A disease management program that includes alternation and/or tank mixes between Cyazofamid 400SC and other labeled fungicides that have a different mode of action and/or control pathogens not controlled by Cyazofamid 400SC is essential to prevent disease resistant pathogen populations from developing. Cyazofamid 400SC should not be utilized continuously nor tank mixed with fungicides to which the target diseases have developed resistance.

Since pathogens differ in their potential to develop resistance to fungicides, follow the directions outlined in the "Directions For Use" section of this label for specific resistance management strategies for each crop. Consult with your Federal or State Cooperative Extension Service representatives for guidance on the proper use of Cyazofamid 400SC in programs that seek to minimize the occurrence of disease resistance. Cyazofamid 400SC is not cross-resistant with other classes of fungicides that have different modes of action.

PLANT TOLERANCE

Note to User: Although Cyazofamid 400SC has been evaluated on several plants with no indication of phytotoxicity, neither the manufacturer nor seller has determined whether or not Cyazofamid 400SC can be used safely on ornamental and nursery plants not specified on this label. The professional user should determine if Cyazofamid 400SC can be used safely prior to commercial use by testing a small number of the type of plants to be treated at recommended rates for that particular group for phytotoxicity.

MIXING INSTRUCTIONS

NOTE: Slowly invert Cyazofamid 400SC container several times to assure uniform mixture of formulation before adding this product to the spray tank.

Fill the mixing tank with half of the required amount of water. The required amount of Cyazofamid 400SC should be added slowly into the spray tank during filling to the required volume. Keep agitator running when filling spray tank and during spray operations. Do not allow spray mixture to stand overnight or for prolonged periods of time. Prepare only the amount of the spray mixture required for

immediate use. Spraying equipment should be thoroughly cleaned immediately after the application is completed.

Apply Cyazofamid 400SC in sufficient water to obtain adequate coverage of the foliage. Gallonage to be used will vary with crop and amount of plant growth.

TANK MIX COMPATIBILITY

Cyazofamid 400SC is physically compatible (no nozzle or screen blockage) with many products recommended for control of diseases and insects on turf grass and ornamental plants. Read and follow all manufacturer's label recommendations for the tank mix companion product. It is the applicator's responsibility to ensure that the companion product is EPA approved for use on the intended crop. Cyazofamid 400SC is generally compatible with other insecticides, fungicides, fertilizers and micronutrient products provided sufficient free water is available for dispersion of all the tank mix products. However, the physical compatibility of Cyazofamid 400SC with tank mix partners should be evaluated before use. A jar test should be conducted with intended tank-mix pesticides 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 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 RANMAN 400SC should not be used in the tank-mix.

TURF

Cyazofamid 400SC controls Pythium blight and Pythium damping-off and Pythium root dysfunction in turf. Within the rate range given for turf, use the lower rate for the shortest interval and higher rate for the longest interval. Under severe disease conditions, use the highest rate and shortest interval.

Do not apply more than three applications of Cyazofamid 400SC during any growing season. Cyazofamid 400SC should be alternated with another registered fungicide with a different mode of action. Do not apply more that 2.7 fl oz/1000 square feet/year (3.0 lb a.i./acre/year).

Disease	Use Rate (fl oz product per 1,000 sq. ft.)	Application Interval (Days)	Remarks
Pythium blight, Pythium damping-off, Pythium root dysfunction	0.45 to 0.9 fl oz	14 to 21	Apply as a preventative treatment at 0.45 to 0.9 fl oz in 2 to 4 gallons of water per 1,000 sq. ft. On established turf apply as a preventative treatment when conditions are favorable for disease development, prior to disease symptom development. During periods of prolonged favorable conditions use 0.45 fl oz on a 14-day interval, using another registered fungicide having a different mode of action between applications of Cyazofamid 400SC. For newly seeded areas use 0.45 fl oz in 2 to 4 gallons per 1,000 sq. ft. immediately after seeding. Under severe conditions use the highest rate and the shortest interval.

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ORNAMENTALS

Container Grown Plants – Soil Application

For control of damping-off, root and stem rot diseases of ornamentals, including conifers, grown in containers in greenhouses, outdoor nurseries and landscapes, apply Cyazofamid 400SC as a soil drench or soil surface spray. Do not make more than 2 applications of Cyazofamid 400SC per crop cycle for control of Pythium or Phytophthora soil borne diseases. Cyazofamid 400SC may also be applied via irrigation systems as noted below.

For drench applications to containerized plants, use enough of the specified water solution to wet the root zone with minimal run-through. Do not exceed 5% run-through. In general 1 pint of the solution/sq. ft. is sufficient for ornamentals growing in a container with 4-inch depth of growth media. Containers greater than 4-inch depth generally require from 1½ to 2 pints of the solution/sq. ft.

Field Grown (Bed) Plants – Soil Application

For control of damping-off, root and stem rot in field-grown (bed) plants, including forest tree nurseries, with drench applications, use sufficient water solution to allow for penetration into the root zone. For soil surface applications made in outdoor nurseries, irrigate with at least ½ inch of water if rainfall does not occur within 24 hours. For all field grown (bed) plant applications, apply Cyazofamid 400SC only to the root zone area of the plant at the rate of 6 fl. oz. of Cyazofamid 400SC per 100 gallons. Do not exceed 1000 gallons of this mixture per acre per application (1.56 lbs. a.i./A). Do not make more than 2 applications of Cyazofamid 400SC per year to field grown (bed) plants (3.12 lbs. a.i./A/yr.). Applications may also be applied via drip irrigation as noted below.

Container and Field Grown (Bed) Plants - Foliar Application

For foliar applications, apply sufficient spray solution to thoroughly wet the foliage to the point of run-off (generally not to exceed 100 gallons per acre). Do not apply sequential applications of Cyazofamid 400SC during any growing season. Cyazofamid 400SC should be alternated with another registered fungicide with a different mode of action. Do not make more than 4 applications of Cyazofamid 400SC per crop cycle for control of downy mildews or Phytophthora foliar diseases.

Applications of Cyazofamid 400SC should begin when conditions are suitable for disease development or when plants first exhibit disease symptoms, from germination to mature crop.

For Application to Ornamental Plants:

Diseases	Product Rate per 100 gallons	Comments
Pythium crown and root rots and damping-off	1.5 to 3.0 fl oz	Make applications on a 14 to 28 day interval using another registered fungicide with a different mode of action between applications of Cyazofamid 400SC. Within the rate range, use the lower rate and shortest interval and the higher rate at the longest interval. When disease is severe use the highest rate at the shortest interval. See the rate chart below for application volumes for container grown plants.

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Phytophthora crown and root rots and foliar blights.	3.0 to 6.0 fl oz	Make applications on a 14 to 28 day interval using another registered fungicide with a different mode of action between applications of Cyazofamid 400SC. Use the shortest interval when disease conditions are severe. See the rate chart below for soil applications to container grown plants. For foliar applications, apply sufficient product to wet all foliage to the point of run-off (generally not to exceed 100 gallons per acre).
Downy mildews	2.1 to 3.5 fl oz	Apply on a 14 to 21 day schedule, using another registered fungicide between applications of Cyazofamid 400SC. Within the rate range, use the lower rate at the shortest interval and the higher rate at the longest interval. When disease conditions are severe use the highest rate and shortest interval. Apply sufficient volume (normally 50 to 100 gallons per acre) to wet all foliage to the point of run-off. If water volumes used are less than 50 gallons per acre, an organosilicone surfactant should be added when the disease infection is severe, or a non-ionic surfactant or a blend of an organosilicone and a non-ionic surfactant should be added when disease infection is moderate or light, according to the manufacturer's label recommendations.

For Container Grown Plants:

Pot Diameter (Inches)	Maximum Drench Volume (fl. oz. of drench mixture/pot)
4	2
5	3
6	4
8	10
10	20
12	30

APPLICATION AND CALIBRATION TECHNIQUES FOR DRIP IRRIGATION

Apply this product only through pressurized drip (trickle) systems or micro-irrigation systems such as spaghetti-tube or individual tube irrigation, or ebb and flow systems. DO NOT apply this product through any other type of irrigation system.

Crop injury or lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

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If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

DO NOT apply Cyazofamid 400SC through irrigation systems connected to a public water system. "Public water system" means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days per year.

Controls for both irrigation water and pesticide injection systems must be functionally interlocked, so as to automatically terminate pesticide injection when the irrigation water pump motor stops. A person knowledgeable of the irrigation system and responsible for its operation shall be present so as to discontinue pesticide injection and make necessary adjustments, should the need arise.

The irrigation water pipeline must be fitted with a functional, automatic, quick-closing check valve to prevent the flow of treated irrigation water back toward the water source. The pipeline must also be fitted with a vacuum relief valve and low-pressure drain, located between the irrigation water pump and the check valve, to prevent back-siphoning of treated irrigation water into the water source.

Always inject Cyazofamid 400SC into irrigation water after it discharges from the irrigation pump and after it passes through the check valve. Never inject pesticides into the intake line on the suction side of the pump.

Pesticide injection equipment must be fitted with a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump. Interlock this valve to the power system, so as to prevent fluid from being withdrawn from the chemical supply tank when the irrigation system is either automatically or manually turned off.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Spray mixture in the chemical supply tank must be agitated at all times, otherwise settling and uneven application may occur. DO NOT apply when wind speed favors drift beyond the area intended for treatment.

WARRANTY AND LIMITATION OF DAMAGES

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. **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, INCLUDING ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCANTABILITY, AND NO AGENT OF SELLER IS AUTHORIZED TO DO SO.** In no

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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.