

264-1117

10/20/2010

1 of 7

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Biopesticides and Pollution Prevention Division (7511P)
1200 Pennsylvania Avenue NW
Washington, DC 20460

NOTICE OF PESTICIDE:

X Registration
Reregistration
(under FIFRA, as amended)

EPA Reg. Number: 264-1117

Date of Issuance: OCT 20 2010

Term of Issuance: Conditional

Name of Pesticide Product: Yield Shield 200 FS

Name and Address of Registrant (include ZIP Code):

Ms. Robyn Kneen
Bayer CropScience
P.O. Box 12014
2T.W. Alexander Drive
Research Triangle Park, NC 27709

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention 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.

This product is conditionally registered in accordance with FIFRA Sec. 3(c)(7)(A) provided you:

- 1. Submit and/or cite all data required for registration or registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official: [Signature]

Date: OCT 20 2010

(See second page for signature)

EPA Form 8570-6

SB: 7511 P: 102010 : 264-1117: Bpum AB34

CONCURRENCES

Table with columns for SYMBOL, SURNAME, and DATE. Includes handwritten entries for 7511 P, Bacchus, and 10/20/10.

2007

2. Make the following label changes listed below before you release the product for shipment:
 - a. Change the EPA Registration Number to 264-1117.
 - b. Insert an expiration date of 90 days from the time of manufacture on the front panel of the label of the End-use Product (EP) Yield Shield 200 FS manufactured in accordance with the basic Confidential Statement of Formula (CSF) dated September 21, 2010 and the alternate CSFs dated September 22, 2010, and September 23, 2010.
 - c. Use this pesticide product for treatment of seeds for planting only and not for treatment of seeds for direct use as an edible food commodity. The label must include a statement for seed treatment with an EPA approved colorant.
3. Provide analyses of five (5) production batches to include storage stability and corrosion characteristics data within fifteen (15) months of the date of this registration notice.
4. Submit five (5) copies of the revised final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). This registration will automatically expire on midnight on January 19, 2012, if the required storage stability and corrosion characteristics data are not submitted. Any requests for time extensions to provide the data must be submitted in writing prior to the expiration date. If approved, extension requests will result in other appropriate expiration dates as determined by the Agency. When you submit the data required, the registration will continue until the data are evaluated and found to be acceptable to the Agency, and in accordance with new projections regarding appropriate expiration dates. Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

If you need further assistance on this matter, please contact Shanaz Bacchus by email at bacchus.shanaz@epa.gov or by phone on (703) 308-8097.

Sincerely,



W. Michael McDavit, Acting Director
Biopesticides and Pollution Prevention Division (7511P)

Encl: stamped label.

3087

Yield Shield 200 FS

A biological seed treatment for the protection against certain soil plant pathogenic fungi

ACTIVE INGREDIENT:

Active: *Bacillus pumilus* GB34† 18.1%

OTHER INGREDIENTS: 81.9%

TOTAL: 100.0%

†Contains a minimum of 2×10^{10} cfu per ml

EPA Reg. No. 264-XXXX

EPA Est.

~~INCLUDE~~ ~~EXPIRATION DATE~~ **KEEP OUT OF REACH OF CHILDREN**

CAUTION

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.)

For MEDICAL And TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577
For PRODUCT USE Information Call 1-866-99BAYER (1-866-992-2937)

FIRST AID

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 ON SKIN OR CLOTHING:	<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.
<p>In case of emergency call toll free the Bayer CropScience Emergency Response Telephone No. 1-800-334-7577. Have a product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	

Note to Physician: No specific antidote is available. Treat the patient symptomatically.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are made of any waterproof material. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection chart.

Workers involved with treating the seed (e.g. connecting and disconnecting hoses and transfer pumps, mixing, equipment calibration, etc.) and others exposed to the concentrate, and cleaners/repairers of seed treatment equipment must wear a long-sleeve shirt and long pants, shoes plus socks, chemical resistant gloves made out of any waterproof material, and a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95.

Baggers and bag sewers must wear a long-sleeve shirt and long pants, shoes plus socks, chemical resistant gloves made out of any waterproof material, and a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95.

ACCEPTED
with COMMENTS
in EPA letter Dated

OCT 20 2010

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

264-1117

User Safety Recommendations

- Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should 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

Do not contaminate water when disposing of equipment washwater or rinsate.

DIRECTIONS FOR USE

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
Read entire label before using this product.**

For use only in commercial seed treatment equipment. Not for use in hopper box, planter box, slurry box, or other on-farm seed treatment applications.

All seed treated with this product must be conspicuously colored at the time of treatment. This product contains no colorant. An appropriate EPA-approved colorant must be added when this product is applied to seed to distinguish and prevent subsequent inadvertent use as a food for man or feed for animals. Regulations pertaining to coloration of treated seed enforced by 40 CFR 153.155 must be strictly adhered to when using this product.

GENERAL INFORMATION

Yield Shield 200 FS is a biological seed treatment that, when applied to seed, colonizes the developing root system and provides early season protection from soilborne fungi belonging to the genera Rhizoctonia and Fusarium that attack the root system. Through a mode of action in which the plant's own host resistance is activated, biological protection is achieved which frequently results in more uniform and improved plant stand, plant health and yield. Yield Shield 200 FS is recommended for use with Bayer CropScience seed applied insecticides and fungicides for complete pest protection.

FOR USE AS A SEED TREATMENT

Apply Yield Shield 200 FS as a water-based slurry either alone or with other registered seed treatment insecticides and fungicides through standard slurry or mist commercial seed treatment equipment. Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures.

MIXING INSTRUCTIONS

To mix, add 1/2 of the required water to the treatment slurry tank, followed by the accompanying seed applied insecticides/fungicides prior to adding Yield Shield 200 FS. Add the remaining 1/2 amount of water to the slurry. Allow each component to disperse completely prior to the next addition until a uniform suspension is obtained. Do not store mixed slurries for greater than 72 hours. For additional instructions for use or mixing, contact your Bayer CropScience representative for further guidelines for mixing and slurry storage instructions.

APPLICATION RATES

May be used in combination with other registered Bayer CropScience seed treatment fungicides and insecticides. Pre-test for compatibility with other seed treatment products.

Cereal Grains	Barley, Buckwheat, Corn (field, sweet and pop), Millet, Oats, Rice, Rye, Sorghum, Teosinte, Triticale, Wheat, Wild Rice. Apply at 0.001 – 0.1fl oz/cwt (0.28 – 2.8 ml/cwt)
Canola, Mustard Seed and Rapeseed	Apply at 0.001 – 0.1fl oz/cwt (0.28 – 2.8 ml/cwt)
Cotton	Apply at 0.001 – 0.1fl oz/cwt (0.28 – 2.8 ml/cwt)
Peanuts	Apply at 0.001 – 0.1fl oz/cwt (0.28 – 2.8 ml/cwt)
Soybeans	Apply at 0.001 – 0.1fl oz/cwt (0.28 – 2.8 ml/cwt)
Forage Legumes (except Alfalfa)	Clover, lespedeza, beans (for forage), soybeans (for forage), soybean hay, peanuts (for forage), peanut hay, peas (for forage), pea vine hay, cowpeas (for forage), cowpea hay, trefoil, vetch and velvet beans (for forage). Apply at 0.001 – 0.1fl oz/cwt (0.28 – 2.8 ml/cwt)
Alfalfa	Apply at 0.001 – 0.1fl oz/cwt (0.28 – 2.8 ml/cwt)
Legume Vegetables (except soybean)	Adzuki bean, asparagus bean, blackeyed pea, broad bean (fava), catjang, chickpea (Garbanzo bean), Chinese longbean, cowpea, Crowder pea, dwarf pea, edible-pod bean, English pea, field bean, field pea, garden pea, green pea, Guar, Jackbean, kidney bean, lima bean, lentil, Lupin (grain, sweet, white and white sweet), moth bean, mung bean, navy bean, pigeon pea, rice bean, runner bean, snap bean, snow pea, Southern pea, sugar snap pea, tepary bean, urd bean, yardlong bean, wax bean. Apply at 0.001 – 0.1fl oz/cwt (0.28 – 2.8 ml/cwt)
Brassica (Cole) Leafy Vegetables	Broccoli (including Chinese and raab), Brussels sprouts, cabbage (including Chinese bok choy, Chinese napa and mustard), cauliflower, cavalo broccoli, collards, kale, kohlrabi, mizuna, mustard greens, mustard spinach, and rape greens Apply at 0.001 – 0.1fl oz/cwt (0.28 – 2.8 ml/cwt)
Cucurbit Vegetables	Chayote (fruit), Chinese waxgourd, citron melon, cucumber, gherkin, edible gourd (includes hyotan, cucuzza, Chinese okra, and hechima), Momordica spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), muskmelon (includes true cantaloupe, cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon), pumpkin, summer squash (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), winter squash (includes butternut squash, calabaza, hubbard squash), Cucumis mixtar, Cucumis pepo (includes acorn squash, spaghetti squash), watermelon (includes hybrids and/or varieties of Citrullus lanatus.). Apply at 0.001 – 0.1fl oz/cwt (0.28 – 2.8 ml/cwt)
Leafy Vegetables	Amaranth (leafy, Chinese spinach, tampala, cardoon, celery (including Chinese), celtuce, chervil, chrysanthemum (edible-leaved and garland), corn salad, cress (garden and upland), dandelion, dock, endive/fennel (finocchio), lettuce (head and leaf), orach, parsley, purslane (garden and winter), radicchio, rhubarb, spinach* (including new Zealand and vine), and Swiss chard. Apply at 0.001 – 0.1fl oz/cwt (0.28 – 2.8 ml/cwt)
Fruiting Vegetables	Eggplant, groundcherry, pepino, pepper (including bell pepper, chili pepper, cooking pepper, pimento, sweet pepper), tomatillo, and tomato. Apply at 0.001 – 0.1fl oz/cwt (0.28 – 2.8 ml/cwt)
Bulb Vegetables	Garlic, Leek, Onion (dry bulb and green), Shallot. Apply at 0.001 – 0.1fl oz/cwt (0.28 – 2.8 ml/cwt)
Root and Tuber Vegetables	Arracacha, arrowroot, artichoke (Chinese and Jerusalem), beet (garden and sugar), burdock (edible), canna (edible), carrot, cassava (bitter and sweet), celery root, chayote, chervil, chicory, chufa, dasheen, ginger, ginseng, horseradish, leren, parsley (turnip-rooted), parsnip, potato, radish (includes oriental dalkon), rutabaga, salsify (includes black and Spanish), skirret, sweet potato, tanager, tumeric, turnip, yam bean (jicama, manioc pea), yam. Apply at 0.001 – 0.1fl oz/cwt (0.28 – 2.8 ml/cwt)

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SEED BAG LABEL REQUIREMENTS

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

- This seed has been treated with *Bacillus pumilus*.
- Do not use for food, feed or oil purposes.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Store in cool, dry conditions.

PESTICIDE DISPOSAL

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

CONTAINER DISPOSAL

Containers with capacities equal to or less than 5 gallons

Non-refillable container. Do not reuse or refill this container. Triple rinse or pressure 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.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or 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.

Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration, or burning if allowed by state and local authorities. If burned stay out of smoke.

Containers that are too large to shake (i.e., with capacities greater than 5 gallons)

Non-refillable containers - Do not reuse or refill this container. After emptying product from container, either return container to Bayer CropScience per instructions from Bayer CropScience Customer Service Center (1-800-527-4781), or rinse and either recycle or dispose of the container as follows:

Bottom Discharge IBC (e.g. – Schuetz Caged IBC or Snyder Square Stackable)

Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. To pressure rinse the container before final disposal, empty the remaining contents from the IBC into application equipment or mix tank. Raise the bottom of the IBC by 1.5 inch on the side which is opposite of the bottom discharge valve to promote more complete product removal. Completely remove the top lid of the IBC. Use water pressurized to at least 40 PSI to rinse all interior portions.

Continuously pump or drain rinsate into application equipment or rinsate collection system while pressure rinsing. Continue pressure rinsing for 2 minutes or until rinsate becomes clear. Replace the lid and close bottom valve.

Top Discharge IBC, Drums, Kegs (e.g.– Snyder 120 Next Gen, Bonar B120, Drums, and Kegs).

Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. To triple rinse the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container at least 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Rinse all interior surfaces. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times.

Once container is rinsed, offer for recycling if available or puncture and dispose of in a sanitary landfill.

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IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

Treatment of highly mechanically damaged seed, or seed of known low vigor and poor quality, may result in reduced germination and/or reduction of seed and seedling vigor. Treat and conduct germination tests on a small portion of seed before committing the total seed lot to a selected chemical treatment. Due to seed quality conditions beyond the control of Bayer CropScience, no claims are made to guarantee germination of carry-over seed.

CONDITIONS: The directions for use of this product are believed to be adequate and the user must follow directions. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE MAKES NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT BAYER CROPSCIENCE'S ELECTION, THE REPLACEMENT OF PRODUCT.

NOTICE TO BUYER

Purchase of this material does not confer any rights under patents governing this product or the use thereof in countries outside of the United States.

NET CONTENTS: ~~2 x 12.8 fl oz~~ 2.5 Gal., 1.5 Gal., 30 Gal., 260 Gal.

Produced for



Bayer CropScience

**Bayer CropScience LP
P.O. Box 12014, 2 T.W. Alexander Drive
Research Triangle Park, North Carolina 27709
1-866-99BAYER (1-866-992-2937)**

YIELD SHIELD 200 FS (PENDING) 02/10/10, Resubmitted 10/14/10, Resubmitted 10/19/10