

7969-266

1-23-2008

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7504P)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460

EPA Reg. Number:
7969-266

Date of Issuance:
JAN 23 2008

Term of Issuance: Conditional

Name of Pesticide Product:
BAS 500 12F Fungicide Seed Treatment

NOTICE OF PESTICIDE:

- Registration
 - Reregistration
- (under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

BASF Corporation, Agricultural Products
P. O. Box 13528
Research Triangle Park, NC 27709 Attention: Charlotte Sanson

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 sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA Section 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses for re-registration of your product under FIFRA Section 4.
2. Submit the following conditional data before January 31, 2009 -- One year of GLP data to satisfy storage stability (830.6317) and corrosion characteristics (830.6320).
3. Submit one copy of a final printed label and revised technical data matrix within 45 days from the date of this notice which makes the following changes:
 - A. On page 3 under tank mixtures, change "should" to "must" in three locations starting with "No label dosage..." and ending with "...to the use directions".
 - B. On page 5, for wheat correct "0.01" to "0.02".
 - C. On pages 17-29 of the data matrix, delete each "Cite-All" under the Guideline Reference Number column as that conflicts with your Selective "Certificate".

(continued)

Signature of Approving Official:

Tony Kish
Product Manager, Team 22
Fungicide Branch
Registration Division (7505C)

Date:

JAN 23 2008

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D. Change "EPA Reg. No. 7969-xxx" to "EPA Reg. No. 7969-266".

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.



The Chemical Company

Group 11 Fungicide

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ACCEPTED with COMMENTS In EPA Letter Dated

JAN 23 2008

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

7969-266

BAS 500 12 F

fungicide seed treatment

For seed treatment use in barley, brassicas, bulb vegetables, corn, cucurbits, legume vegetables, peanut, rye, soybean, sugar beet, sunflower and wheat.

Active Ingredient*:

pyraclostrobin: (carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy)methyl]phenyl]methoxy-, methyl ester) 18.4%

Other ingredients: 81.6%

Total: 100.0%

*Equivalent to 1.67 pounds of pyraclostrobin per gallon.

EPA Reg. No. 7969-xxx

EPA Est. No.

**KEEP OUT OF REACH OF CHILDREN
CAUTION/PRECAUCIÓN**

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

See inside booklet for complete **First Aid, Precautionary Statements, Directions For Use, and Conditions of Sale and Warranty.**

Net Contents: _____

BASF Corporation, Agricultural Products
26 Davis Drive, Research Triangle Park, NC 27709

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FIRST AID	
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 a poison control center or doctor. • DO NOT give anything by mouth to an unconscious person.
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.
If in eyes	<ul style="list-style-type: none"> • Hold eyes open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after first 5 minutes, then continue rinsing eyes. • 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.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Caution: Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing.

Personal Protective Equipment (PPE)

Some materials that are chemically resistant to this product are listed below. For more options, refer to **Category A** on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material (such as Nitrile, Butyl, Neoprene and/or Barrier Laminate)
- Shoes plus socks

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

User Safety Recommendations

Users Should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

This product is toxic to fish and aquatic invertebrates. **DO NOT** discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National

Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. **DO NOT** discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or the regional office of the EPA. **DO NOT** contaminate water when disposing of equipment washwaters.

Directions For Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling. **DO NOT** apply this product in a way that will contact workers or other persons. 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.

Storage and Disposal

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

- **Pesticide Storage:** Store in original containers only. Keep container closed when not in use. **DO NOT** store near food or feed. In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to label.
- **Pesticide Disposal:** Wastes resulting from using this product may be disposed of on site or at an approved waste disposal facility. If these wastes cannot be disposed of 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:** Triple rinse (or equivalent). 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.

In Case of Spill

In case of large-scale spillage regarding this product, call:
CHEMTREC 1-800-424-9300
BASF Corporation 1-800-832-HELP (4357)

Steps to be taken in case this material is released or spilled:

Dike and contain spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal. Remove contaminated clothing and wash affected skin areas with soap and water. Wash clothing before reuse. Keep spill out of all sewers and open bodies of water.

I. General Information

BAS 500 12 F fungicide seed treatment is a broad spectrum fungicide that provides preventive seed and seedling protection against the soilborne pathogen *Rhizoctonia solani* and seedborne fungi causing seed decay including *Penicillium* spp., *Aspergillus* spp., *Alternaria* spp., and *Fusarium* spp. Make all applications according to the use directions in this label. Use the higher rates of **BAS 500 12 F** when disease pressure is expected to be high.

Resistance Management

The active ingredient in **BAS 500 12 F**, pyraclostrobin, belongs to the group of respiration inhibitors classified by the EPA as **Quinone Outside Inhibitors (QoI)** or **Target Site of Action Group 11** fungicides. Due to the minimal amounts of **BAS 500 12 F** applied to the seed that relocate to the upper parts of the plant, the potential for development of resistance is extremely low. Seed treatments of **BAS 500 12 F** can therefore be followed by foliar use and resistance management guidelines of foliar use fungicides containing pyraclostrobin (**Headline**®, **Cabrio**® EG, or **Pristine**® fungicides) as specified on the respective labels.

II. Application Instructions

For use at commercial treatment facilities. Not for use on farm.

Apply **BAS 500 12 F** as a water-based mixture using standard slurry or mist-type seed treatment application equipment. The exact amount of water needed to provide the mixture or slurry rate (ml/100 kg or oz/cwt of seed) for optimum coverage is difficult to predict since weather conditions, hot or cold, seed type and surface, and equipment used all have a bearing on coverage. Consult a seed treatment specialist regarding slurry rates recommended for the crop seed to be treated with **BAS 500 12 F**. The required amount of **BAS 500 12 F** should then be diluted with the recommended amount of water that will provide uniform and complete coverage on the seed surface. Uniform application on seed and complete seed coverage are necessary for seed safety and best disease protection.

Seed should be sound and well cleaned prior to treatment. The purchaser of **BAS 500 12 F** is responsible for ensuring that all seed treated with this product are adequately

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dyed with a suitable color to prevent its accidental use as food for man or feed for animals. Refer to 21CFR, Part 2.25. Use an EPA-approved dye or colorant that imparts an unnatural color to the seed. Any dye or colorant added to treated seed must be cleared for use under 40CFR, Part 180.900, "Exemptions from the requirement of a tolerance". Federal regulations have established official tolerances or exemptions from tolerances for residues on food and forage crops that should not be exceeded when the product (dye or colorant) is used at recommended rates.

Consult the seed treatment specialist for calibration and operation procedures of the seed treatment equipment being used. Mechanical agitation is required for proper mixing of **BAS 500 12 F**. Prepare no more mixture of **BAS 500 12 F** than is needed for immediate treating. Add $\frac{3}{4}$ of the required volume of water to the mix tank. With agitation running, add the required amount of **BAS 500 12 F** in the tank along with other seed treatment components. Add the remaining $\frac{1}{4}$ amount of the required volume of water. Follow the mixing sequence listed below. Agitate thoroughly before and during application.

BAS 500 12 F With Tank Mix Partners:

BAS 500 12 F mixes easily with water and other water-based seed treatments manufactured by BASF Corporation. When using **BAS 500 12 F** in a tank mixture with other seed treatment products, observe all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations that appear on the tank mix partner label. No label dosage or application rate should be exceeded, and the most restrictive label precautions and limitations should be followed. **BAS 500 12 F** should not be mixed with any product that prohibits such mixing. All applications should be made according to the use directions.

When mixing **BAS 500 12 F** with products from other manufacturers, the compatibility should be tested prior to use by conducting a jar test as follows:

1. Mix all intended seed treatments with the appropriate amount of water in a clear glass container.
2. Mix well and allow to sit for one hour.
3. Remix and observe for incompatibility.

Physical compatibility is only part of compatibility. Testing also needs to be done with the seed to make sure the combination of products does not have detrimental effects on the seed.

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Tank Mixing Instructions:

1. Add $\frac{3}{4}$ of the required amount of water to the mix tank and turn on the agitation. Mechanical agitation is preferred.
2. Follow the following mixing sequence: dye or colorant, wettable powders, soluble powders, flowable formulations, emulsifiable concentrates, and remaining $\frac{1}{4}$ of the required water. The $\frac{1}{4}$ of the required water as the last item for addition to the premix tank can be used as rinse for the chemical container or to adjust the total slurry to compensate for water displacement by powdered products.
3. Maintain agitation until the entire slurry mixture has been used.
4. Ensure that seed is dry prior to bagging.

NOTE: Federal law requires that bags of treated seeds shall be labeled with the following: "This seed has been treated with pyraclostrobin fungicide. **DO NOT** use for food, feed or oil purposes. Store away from food and feedstuffs. Use with an EPA-approved dye that imparts an unnatural color to the seed."

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BAS 500 12 F Fungicide Seed Treatment - Crop-Specific Recommendations for Seed Treatment

Crop	Target Disease	Product use rate in fl oz/100 lb seed (lb ai/100 lb seed)
Barley	Seed and seedling disease (damping-off) caused by <i>Rhizoctonia solani</i> , seedborne fungi causing seed decay, seedling damping-off	0.38 - 0.76 (0.005 - 0.01)
Brassica vegetables	Seed and seedling disease (damping-off) caused by <i>Rhizoctonia solani</i> , <i>Phoma lingam</i> and other seedborne fungi causing seed decay, seedling damping-off	0.76 - 2.3 (0.01 - 0.03)
Bulb vegetables	Suppression of seed and seedling disease (damping-off) caused by seedborne fungi causing seed decay, seedling damping-off	0.76 - 2.3 (0.01 - 0.03)
Corn (Field, Pop, Sweet, Corn for Seed production)	Seed and seedling disease (damping-off) caused by <i>Rhizoctonia solani</i> , seedborne fungi causing seed decay, seedling damping-off	0.38 - 0.76 (0.005 - 0.01)
Cucurbits	Seed and seedling disease (damping-off) caused by <i>Rhizoctonia solani</i> , seedborne fungi causing seed decay, seedling damping-off	0.38 - 0.76 (0.005 - 0.01)
Legume vegetables (Dried shelled peas and beans) Broad bean, Chickpea, Guar, Lablab bean, Lentil, Pigeon pea <i>Lupinus</i> spp.: Grain lupin, Sweet lupin, White lupin <i>Phaseolus</i> spp.: Field bean, Kidney bean, Pink bean, Lima bean, Navy bean, Pinto bean, Tepary bean <i>Vigna</i> spp.: Adzuki bean, Black-eyed pea, Catjang, Cowpea, Crowder pea, Moth bean, Mung bean, Rice bean, Southern pea, Urd bean <i>Pisum</i> spp.: Field pea	Seed and seedling disease (damping-off) caused by <i>Rhizoctonia solani</i> , seedborne fungi causing seed decay, seedling damping-off	0.38 - 1.52 (0.005 - 0.02)
Peanut	Seed and seedling disease (damping-off) caused by <i>Rhizoctonia solani</i> , seedborne fungi causing seed decay, seedling damping-off	0.38 - 1.52 (0.005 - 0.02)
Rye	Seed and seedling disease (damping-off) caused by <i>Rhizoctonia solani</i> , seedborne fungi causing seed decay, seedling damping-off	0.38 - 0.76 (0.005 - 0.01)
Soybean (Glycine spp.)	Seed and seedling disease (damping-off) caused by <i>Rhizoctonia solani</i> , seedborne fungi causing seed decay, seedling damping-off	0.38 - 1.52 (0.005 - 0.02)
Sugar beet	Seed and seedling disease (damping-off) caused by <i>Rhizoctonia solani</i> , seedborne fungi causing seed decay, seedling damping-off	0.38 - 0.76 (0.005 - 0.01)
Sunflower	Seed and seedling disease (damping-off) caused by <i>Rhizoctonia solani</i> , seedborne fungi causing seed decay, seedling damping-off	0.38 - 0.76 (0.005 - 0.01)
Wheat	Seed and seedling disease (damping-off) caused by <i>Rhizoctonia solani</i> , seedborne fungi causing seed decay, seedling damping-off	0.38 - 1.52 (0.005 - 0.01)

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Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as the presence of other or untested or unapproved materials, seed of low quality or low vigor or low germination, use of the product in a manner inconsistent with its labeling, misapplication of the product, or weather conditions at planting or environmental conditions during seed storage, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

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