



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505P)  
Ariel Rios Building  
1200 Pennsylvania Ave., NW  
Washington, D.C. 20460

EPA Reg. Number:

Date of Issuance:

7969-249

AUG 16 2007

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance: **Conditional**

Name of Pesticide Product:

BAS 510 ST

Name and Address of Registrant (include ZIP Code):

Attn: Khalid H. Akkari  
BASF Corporation  
P.O. Box 13528  
26 Davis 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 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/re-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 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 required for re-registration of your product under FIFRA Section 4.
2. Before releasing the product for shipment revise the EPA Registration Number to read, "EPA Reg. No. 7969-249" to your label before you release the product for shipment.
3. The label's ingredient statement requires a pair of closing parentheses, where reference is made to 'Active Ingredient'.
4. On page 2, change 'Storage' to read: 'Pesticide Storage', which is to be followed by appropriate guidance. Also, the sentence '**DO NOT** contaminate ...disposal' must be moved directly beneath the heading 'Storage Disposal'.

Signature of Approving Official:

Tony Kish  
Product Manager, Team 22  
Fungicide Branch  
Registration Division (7504P)

Date:

AUG 16 2007

5. On page 3, in the 'Application Instructions' section, substitute 'must' wherever 'should' appears.

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

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

Enclosures



Group **7** Fungicide

# BAS 510 ST

## seed treatment fungicide

For use in brassicas, bulb vegetables,  
cucurbits, legume vegetables, soybean and sunflower.

<b>Active Ingredient:</b>	
boscalid (3-pyridinecarboxamide, 2-chloro-N-(4-chloro(1,1'-biphenyl)-2-yl) .....	70.0%
<b>Other Ingredients:</b> .....	30.0%
<b>Total:</b> .....	100.0%

EPA Reg. No. 7969-EUO

EPA Est. No. \_\_\_\_\_

### 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 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

**ACCEPTED**  
**with COMMENTS**  
**In EPA Letter Dated**  
**AUG 16 2007**

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

7969-  
249

<b>FIRST AID</b>	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• <b>DO NOT</b> induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• <b>DO NOT</b> give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b>	
<p>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).</p>	

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**WARNING**

Causes substantial but temporary eye injury. Harmful if absorbed through skin. Harmful if swallowed. **DO NOT** get in eyes or on clothing. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**Personal Protective Equipment (PPE)**

**Applicators and other handlers must wear:**

- Protective eyewear (goggles, face shield or safety glasses)
- Long-sleeved shirt and long pants
- Chemical-resistant gloves
- 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**

**DO NOT** contaminate water when disposing of equipment washwaters or rinsate.

**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**

**Storage:**

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

• **Pesticide disposal:** Wastes resulting from the use of 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). Then offer for recycling or reconditioning, 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.

**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 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 water.

Wash clothing before reuse.

Keep spill out of all sewers and open bodies of water.

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**I. General Information**

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This package contains **BAS 510 ST seed treatment fungicide**, a water dispersible granule (WG). **BAS 510 ST** is a broad spectrum fungicide that provides preventative seed and seedling protection against seed-borne fungi causing seed decay and the soil-borne pathogens *Rhizoctonia solani*, *Penicillium* spp., and *Fusarium* spp. **BAS 510 ST** may be applied in conjunction with applications of other registered seed treatment and crop protection products. Make all applications according to the use directions in this label. Use the higher rates of **BAS 510 ST** when disease pressure is expected to be high.

**Resistance Management**

The active ingredient in **BAS 510 ST**, boscalid, belongs to the group of respiration inhibitors classified by the EPA as **Carboxamides** or **Target Site of Action Group 7** fungicides. Due to the minimal amounts of active ingredient in **BAS 510 ST** applied to the seed that relocate to the upper parts of the plant, the potential for development of resistance to this fungicide is extremely low. Seed treatments of **BAS 510 ST** can, therefore, be followed by foliar use and resistance management guidelines of foliar use fungicides containing boscalid (**Endura®** or **Pristine® fungicides**) as specified on the respective labels.

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**II. Application Instructions**

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For use on 'crop' seed at commercial treatment facilities.  
**Not for use on farm.**

Apply **BAS 510 ST** as a water-based slurry using standard slurry or mist-type seed treatment application equipment. The exact rate of water needed to provide the 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 510 ST**. The required amount of **BAS 510 ST** 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 must be sound and well cleaned prior to treatment. The purchaser of **BAS 510 ST** is responsible for ensuring that all seed treated with this product are adequately dyed with a suitable color to prevent its accidental use as food for man or feed for animals. Refer to 21CFR, Part 2.25 and 40 CFR 153.155(b)(1). 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 510 ST**. Prepare no more mixture of **BAS 510 ST** than is needed for immediate treating. Add ¾ of the required volume of water to the mix tank. With agitation running, add the required amount of **BAS 510 ST** in the tank along with other seed treatment components. Add the remaining ¼ amount of the required volume of water. Follow the mixing sequence listed below. Agitate thoroughly before and during application.

**BAS 510 ST With Tank Mix Partners:**

**BAS 510 ST** mixes easily with water and other water-based seed treatments manufactured by BASF Corporation. When using **BAS 510 ST** 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 510 ST** should not be mixed with any product that prohibits such mixing. All applications should be made according to the use directions.

When mixing **BAS 510 ST** 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.

**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 boscalid 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."

### III. Crop-Specific Recommendations

Crop	Target Disease	Product Use Rate in oz/100 lb Seed (lb ai/100 lb seed)
<b>Brassica vegetables</b>	Seed and seedling disease (damping off) caused by <i>Phoma lingam</i> . Suppression of other seed-borne fungi causing seed decay, seedling damping off, including <i>Rhizoctonia solani</i> , <i>Cladosporium</i> spp., <i>Penicillium</i> spp.	2.78 - 11.10 (0.12 - 0.48)
<b>Bulb vegetables</b>	Suppression of seed and seedling disease (damping off) caused by seed-borne fungi ( <i>Botrytis</i> , <i>Aspergillus</i> , <i>Penicillium</i> spp.) causing seed decay, seedling damping off	1.6 (0.07)
<b>Cucurbits</b>	Suppression of seed and seedling disease (damping off) caused by <i>Rhizoctonia solani</i> , seed-borne fungi causing seed decay, seedling damping off	0.57 (0.025)
<b>Legume vegetables</b>  -Dried shelled peas and beans, except cowpea, field pea, and grain lupin  -Edible-podded bean ( <i>Phaseolus</i> spp.) and any one succulent cultivar of edible-podded pea ( <i>Pisum</i> spp.)  -Succulent shelled pea and bean, except cowpea	Suppression of seed and seedling disease (damping off) caused by <i>Rhizoctonia solani</i> , seed-borne fungi causing seed decay, seedling damping off	0.9 (0.04)
<b>Soybean (<i>Glycine</i> spp.)</b>	Suppression of seed and seedling disease (damping off) caused by <i>Rhizoctonia solani</i> , seed-borne fungi causing seed decay, seedling damping off	0.9 (0.04)
<b>Sunflower</b>	Suppression of seed and seedling disease (damping off) caused by <i>Rhizoctonia solani</i> , seed-borne fungi causing seed decay, seedling damping off	0.45 (0.02)

**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 weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, 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.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. BUYER'S EXCLUSIVE REMEDY AND BASF'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED, TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

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The Chemical Company