

7969-314

05/06/2011

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U S ENVIRONMENTAL PROTECTION AGENCY

Office of Chemical Safety and Pollution Prevention
Office of Pesticide Programs
Registration Division (7504P)
1200 Pennsylvania Ave N W
Washington DC 20460

EPA Reg Number

7969 314

Date of Issuance

MAY 06 2011

Term of Issuance
Conditional

Name of Pesticide Product

**BAS 500 20 F
Fungicide**

NOTICE OF PESTICIDE

Registration
 Reregistration
(under FIFRA as amended)

Name and Address of Registrant (include ZIP Code)

**BASF Corporation
26 Davis Drive
Research Triangle Park, NC 27709**

Mailed to

**Charlotte A Sanson
Product Registration Manager**

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 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)(A) 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

Signature of Approving Official

Date

MAY 06 2011

Tony Kish Product Manager (22)
Fungicide Branch/Registration Division/OPP/OCSP (7504P)

- 2 You must submit the following conditional data before the due date of 05/10/2012
 - a Storage Stability (830 6317) and Corrosion Characteristics (830 6320) studies The studies must be conducted in commercial containers and observations made at 0 6 9 12 month intervals
- 3 Make the following change to the label
 - a Change the product registration number to EPA Reg No 7969 314
 - b Within the FIRST AID box **REPLACE** the Note to Physician statement with the following May pose an aspiration pneumonia hazard
 - c Under the PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals section **DELETE** the following statement Avoid contact with eyes skin or clothing
 - d Under the PRECAUTIONARY STATEMENTS Personal Protective Equipment section within the second bullet **INSERT** rubber after neoprene
- 4 Submit one copy of the revised final printed label for the record before the product is released for shipment

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

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

Enclosure
Label stamped Accepted with Comments



The Chemical Company

Group 11 Fungicide

ACCEPTED
with COMMENTS
In EPA Letter Dated

MAY 06 2011

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

7969-314

BAS 500 20 F

fungicide

For disease control and plant health in field corn pop corn and seed production corn

Active Ingredient*

pyraclostrobin (carbamic acid [2 [[[1 (4 chlorophenyl) 1H pyrazol 3 y]oxy)methyl]phenyl]methoxy methyl ester) 23.06%

Other Ingredients** 76.94%

Total 100.00%

Equivalent to 2.09 pounds of pyraclostrobin formulated as an aqueous capsule suspension
Contains petroleum distillates

EPA Reg No 7969 xxx

EPA Est No

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

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 for complete **First Aid Precautionary Statements Directions For Use Conditions of Sale and Warranty** and state specific crop and/or use site restrictions

In case of an emergency endangering life or property involving this product call day or night 1 800 832 HELP (4357)

Net Contents

E-SUBMISSION

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 in eyes	<ul style="list-style-type: none"> • Hold eyes open and rinse slowly and gently with water for 15 to 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 on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing • Rinse skin immediately with plenty of water for 15 to 20 minutes • 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
Note to Physician Probable mucosal damage may contraindicate the use of gastric lavage	
HOTLINE 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 Avoid contact with eyes skin 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 exist use detergent and hot water Keep and wash PPE separately from other laundry

Engineering Controls Statement

When handlers use closed systems enclosed cabs or air craft 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

USER SAFETY RECOMMENDATIONS

Users should

- Wash hands 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
- 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 may contaminate water through drift of spray in wind This product has a potential for runoff for several months or more after application Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product A level well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds streams and springs will reduce the potential for contamination of water from rainfall runoff Runoff of this product will be reduced by avoiding applications when rainfall is forecast to occur within 48 hours Sound erosion control practices will reduce this product's contribution to surface water contamination

This pesticide is toxic to fish and aquatic invertebrates Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas

DO NOT apply directly to water areas where surface water is present or intertidal areas below the mean high water mark **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 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 (WPS) 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) notification to workers 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 **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 (such as nitrile butyl neoprene and/or barrier laminate)
- Shoes plus socks

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

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 representatives at the nearest EPA Regional Office for guidance

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STORAGE AND DISPOSAL (continued)

Container Disposal

Nonrefillable Container DO NOT reuse or refill this container Triple rinse or pressure rinse container (or equivalent) promptly after emptying then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by incineration or by other procedures approved by state and local authorities

Triple rinse containers small enough to shake (capacity ≤ 5 gallons) 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 1/4 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

Triple rinse containers too large to shake (capacity > 5 gallons) as follows Empty the remaining contents into application equipment or a mix tank Fill the container 1/4 full with water Replace and tighten closures Tip container on its side and roll it back and forth ensuring at least one complete revolution for 30 seconds Stand the container on its end and tip it back and forth several times Turn the container over onto its other end and tip it back and forth several times Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal Repeat this procedure two more times

Pressure rinse as follows Empty the remaining contents into application equipment or 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

Refillable Container Refill this container with pesticide only **DO NOT** reuse this container for any other purpose Triple rinsing the container before final disposal is the responsibility of the person disposing of the container Cleaning before refilling is the responsibility of the refiller

Triple rinse as follows To clean the container before final disposal empty the remaining contents from this container into application equipment or mix tank Fill the container about 10% full with water Agitate vigorously or recirculate water with the pump for 2 minutes Pour or pump rinsate into application equipment or rinsate collection system Repeat this rinsing procedure two more times

(continued)

STORAGE AND DISPOSAL *(continued)*

When this container is empty replace the cap and seal all openings that have been opened during use return the container to the point of purchase or to a designated location This container must only be refilled with a pesticide product Prior to refilling inspect carefully for damage such as cracks punctures abrasions worn out threads and closure devices Check for leaks after refilling and before transport **DO NOT** transport if this container is damaged or leaking If the container is damaged or leaking or obsolete and not returned to the point of purchase or to a designated location triple rinse emptied container and offer for recycling if available or dispose of container in compliance with state and local regulations

In Case of Emergency

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

- 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
- Dike and contain the 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 the spill out of all sewers and open bodies of water

General Information

This package contains **BAS 500 20 F fungicide** an aqueous capsule suspension The active ingredient in **BAS 500 20 F** pyraclostrobin is a member of the **strobilurin class of chemistry** and is derived from a natural antifungal substance Preventive applications optimize disease control resulting in improved plant health

To maximize disease control apply **BAS 500 20 F** in a regularly scheduled protective spray program and use in a rotation program with other fungicides

Because of its high specific activity **BAS 500 20 F** has good residual activity against target fungi

BAS 500 20 F is not for use in greenhouse or transplant production

Mode of Action

Pyraclostrobin the active ingredient of **BAS 500 20 F** belongs to the group of respiration inhibitors classified by the U S EPA and Canada PMRA as **Quinone Outside Inhibitors (QoI)** or target site of action **Group 11** fungicides

Resistance Management

BAS 500 20 F contains pyraclostrobin a **Group 11** fungicide and is effective against pathogens resistant to fungicides with modes of action different from those of QoI fungicides (target site **Group 11**) such as dicarboximides sterol inhibitors benzimidazoles or phenylamides

Fungal isolates resistant to **Group 11** fungicides such as pyraclostrobin azoxystrobin fluoxastrobin trifloxystrobin and kresoxim methyl may eventually dominate the fungal population if **Group 11** fungicides are used predominantly and repeatedly in the same field in successive years as the primary method of control for the targeted pathogen species This may result in reduction of disease control by **BAS 500 20 F** or other **Group 11** fungicides Follow label instructions regarding the use of **BAS 500 20 F** or other target site of action **Group 11** fungicides that have a similar site of action on the same pathogens

When using a **Group 11** fungicide as a solo product the number of applications must be no more than 1/3 of the total number of fungicide applications per season

In programs in which tank mixes or pre mixes of a **Group 11** fungicide with a fungicide of another group are utilized the number of **Group 11** fungicide (QoI) containing applications should be no more than 1/2 of the total number of fungicide applications per season

In programs in which applications of **Group 11** fungicides are made with both solo products and mixtures the number of **Group 11** fungicide (QoI) containing applications should be no more than 1/2 of the total number of fungicide applications per season

Resistance Management Advisory

The following recommendations may be considered to delay the development of fungicide resistance

- 1 Tank mixtures** Use tank mixtures with effective fungicides from different target site of action groups that are registered/permitted for the same use and that are effective against the pathogens of concern Use at least the minimum labeled rates of each fungicide in the tank mix
- 2 IPM** Integrate **BAS 500 20 F fungicide** into an overall disease and pest management program Follow cultural practices known to reduce disease development Consult your local extension specialist certified crop advisor and/or BASF representative for additional IPM strategies established for your area
- 3 Monitoring** Monitor efficacy of all fungicides used in the disease management program against the targeted pathogen and record other factors that may influence fungicide performance and/or disease development If a **Group 11** target site fungicide such as **BAS 500 20 F** appears to be less effective against a pathogen that it previously controlled or suppressed contact a BASF representative local extension specialist or certified crop advisor for further investigation

Application Instructions

Apply rate of **BAS 500 20 F** as instructed in **BAS 500 20 F fungicide Crop specific Requirements** Apply **BAS 500 20 F** with ground sprayer aerial equipment or through sprinkler irrigation equipment Check equipment frequently for calibration

Under low level disease conditions the minimum application rates can be used while maximum application rates and shortened spray schedules are recommended for severe or threatening disease conditions

The use of a crop oil or adjuvant may be used to improve spray coverage Refer to the adjuvant product label for specific use directions and restrictions For optimum results in cases of high disease pressure use a minimum spray volume of 4 gpa

Consult a BASF representative or local agricultural authority for more information concerning additives

Cleaning Spray Equipment

Spraying equipment must be cleaned thoroughly before and after applying this product particularly if a product with the potential to injure crops was used prior to **BAS 500 20 F**

Ground Application

Apply **BAS 500 20 F** in sufficient water to ensure thorough coverage of foliage Thorough coverage is required for optimum disease control

Instructions for Directed or Banded Sprays Related to Ground Applications

The application rate shown in **BAS 500 20 F fungicide Crop specific Requirements** pertains to both aerial and ground (broadcast) methods of application **BAS 500 20 F** may also be applied as a directed or banded spray over the rows or plant beds with alleys or row middles left unsprayed For such uses reduce the rate of **BAS 500 20 F** in proportion to the area actually sprayed This adjustment is necessary to prevent applying the product at use rates higher than permitted on this label

The following formula may be used to determine the broadcast equivalent rate for doing directed or banded sprays

sprayed bed width + unsprayed row middles = total row width

$$\frac{\text{sprayed bed width in inches}}{\text{total row width in inches}} \times \frac{\text{broadcast rate}}{\text{treated acre}} = \frac{\text{band rate}}{\text{field acre}}$$

Example A directed spray application will be made to 45 inch plant beds separated by 15 inches of unsprayed row middles

45 inches sprayed bed width + 15 inches unsprayed row middles = 60 inches total row width

The calculations to determine the appropriate equivalent rate of product to use for this situation based on a label broadcast rate of 6 fl ozs/acre follows

$$\frac{45 \text{ inches}}{60 \text{ inches}} \times \frac{6 \text{ fl ozs}}{\text{treated acre}} = \frac{4.5 \text{ fl ozs}}{\text{field acre}}$$

Aerial Application

Unless otherwise specified on this label use no less than 2 gallons of spray solution per acre

Aerial applications of **BAS 500 20 F** may be made in water volumes of 2 or more gallons of spray solution per acre (gpa)

Select spray nozzles pumping pressure and sprayer height to provide medium to fine spray droplets that penetrate throughout the crop canopy Spray calibration must be conducted to confirm spray droplet sizes Continue to monitor spray application (including weather conditions) to assure proper droplet size and canopy penetration

No aerial application in New York State except as permitted under FIFRA Section 24(c) Special Local Need Registration

Spray Drift Management

DO NOT spray when conditions favor drift beyond area intended for application Conditions that may contribute to drift include thermal inversion wind speed and direction spray nozzle/pressure combinations spray droplet size temperature/humidity etc Contact your state extension agent for spray drift prevention guidelines in your area All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers Avoiding spray drift at the application site is the responsibility of the applicator

Aerial Application Methods and Equipment

The interaction of many equipment related and weather related factors determines the potential for spray drift The applicator and the grower are responsible for considering all these factors when making decisions

DO NOT apply under circumstances where possible drift to unprotected persons to food forage or other plantings that might be damaged or crops thereof rendered unfit for sale use or consumption can occur

DO NOT release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety

The following drift management requirements must be followed to avoid off target drift movement from aerial applications to agricultural field crops These requirements do not apply to forestry applications public health uses or to applications using dry formulations

- 1 The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the fixed wingspan or 90% of rotor blade diameter
- 2 Nozzles must always point backward parallel with the airstream and never be pointed downward more than 45 degrees

Where states have more stringent regulations they must be observed

The applicator should be familiar with and take into account the information covered in the aerial drift reduction advisory information

Information on Droplet Size

The most effective way to reduce drift potential is to apply large droplets. Use the largest droplet size consistent with acceptable efficacy. Applying larger droplets reduces drift potential but will not prevent drift if applications are made improperly or under unfavorable environmental conditions (see **Wind Temperature and Humidity** and **Temperature Inversions**)

Controlling droplet size

- **Volume** Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets
- **Pressure** **DO NOT** exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure

Number of Nozzles Use the minimum number of nozzles that provide uniform coverage

- **Nozzle Orientation** Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is recommended practice. Significant deflection from the horizontal will reduce droplet size and increase drift potential

Nozzle Type Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift

Wind

DO NOT apply at wind speeds greater than 15 mph. Drift potential is lowest when wind speed does not exceed 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift

Temperature and Humidity

Low humidity and high temperatures increase the evaporation of spray droplets and, therefore, the likelihood of increased spray drift. Avoid spraying during conditions of low humidity and/or high temperatures. When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry

Temperature Inversions

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small, suspended

droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light, variable winds common during inversions.

Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., bodies of water or non-target crops) is minimal and when wind is blowing away from the sensitive areas.

Directions For Use Through Sprinkler Irrigation Systems

Sprayer Preparation

Chemical tank and injector system should be thoroughly cleaned. Flush system with clean water.

Application Instructions

Apply **BAS 500 20 F fungicide** at rates and timings as required in this label.

Use Precautions For Sprinkler Irrigation Applications

Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side [wheel] roll, traveler, big gun, solid set, or hand move irrigation systems. **DO NOT** apply this product through any other type of irrigation system.

- Add this product to the pesticide supply tank containing sufficient water to maintain a continuous flow by the injection equipment. In continuous moving systems, inject this product/water mixture continuously, applying the labeled rate per acre for that crop. **DO NOT** exceed 1/2 inch (13.577 gallons) per acre. In stationary or noncontinuous moving systems, inject the product/water mixture in the last 15 to 30 minutes of each set, allowing sufficient time for all of the required pesticide to be applied by all the sprinkler heads and applying the labeled rate per acre for that crop. **DO NOT** apply when wind speed favors drift beyond the area intended for treatment. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. Thorough coverage of foliage is required for good control. Maintain good agitation during the entire application period.

Contact state extension service specialists, equipment manufacturers, or other experts for further investigation.

The system must contain a functional check valve vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow

- 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 pesticide injection pipeline must also contain a functional normally closed solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops

- 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
- Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock
- Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. A person knowledgeable of the chemigation system and responsible for its operation or under supervision of the responsible person shall shut the system down and make necessary adjustments should the need arise
- **DO NOT** connect an irrigation system (including green house systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place

Specific Instructions for Public Water Systems

- 1 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 out of the year
- 2 Chemigation systems connected to public water systems must contain a functional reduced pressure zone back flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe

- 3 The pesticide injection pipeline must contain a functional automatic quick closing check valve to prevent the flow of fluid back toward the injection pump
- 4 The pesticide injection pipeline must contain a functional normally closed solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down
- 5 The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump when the water pressure decreases to the point where pesticide distribution is adversely affected
- 6 Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock

Additives and Tank Mixing Information

BAS 500 20 F fungicide can be tank mixed with most recommended fungicides insecticides herbicides liquid fertilizers biological control products adjuvants and additives as specified in **BAS 500 20 F fungicide Crop specific Requirements**

Under some conditions the use of additives or adjuvants may improve the performance of **BAS 500 20 F**. However all varieties and cultivars have not been tested with possible tank mix combinations. Local conditions can also influence crop tolerance and may not match those under which BASF has conducted testing. Physical incompatibility reduced disease control or crop injury may result from mixing **BAS 500 20 F** with other products. Therefore before using any tank mix (fungicides insecticides herbicides liquid fertilizers biological control products adjuvants and additives) test the combination on a small portion of the crop to be treated to ensure that a phytotoxic response will not occur as a result of application. Always follow the most restrictive label.

When an adjuvant is to be used with this product BASF recommends the use of a Chemical Producers and Distributors Association certified adjuvant

Consult a BASF representative or local agricultural authorities for more information concerning additives

Mixing Order

- 1 **Water** Begin by agitating a thoroughly clean sprayer tank 3/4 full of clean water
- 2 **Agitation** Maintain constant agitation throughout mixing and application
- 3 **Inductor** If an inductor is used rinse it thoroughly after each component has been added

- 4 **Products in PVA bags** Place any product contained in water soluble PVA bags into the mixing tank. Wait until all water soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
- 5 **Water dispersible products** (such as dry flowables, wettable powders, suspension concentrates including **BAS 500 20 F fungicide** or suspo emulsions)
- 6 **Water soluble products**
- 7 **Emulsifiable concentrates** (such as oil concentrates when applicable)
- 8 **Water soluble additives** (such as ammonium sulfate [AMS] or urea ammonium nitrate [UAN] when applicable)
- 9 **Remaining quantity of water**

Make sure that each component is thoroughly mixed and suspended before adding tank mix partners. Maintain constant agitation during application.

Restrictions and Limitations

- DO NOT** apply more than 6 fl ozs **BAS 500 20 F** per acre per season.
- DO NOT** make more than one application of **BAS 500 20 F** per season.
- DO NOT** apply **BAS 500 20 F** after the V8 growth stage of corn.
- **DO NOT** use **BAS 500 20 F** in greenhouse or transplant production.
- Crop Rotation Restriction** Crops listed on the **BAS 500 20 F Headline® fungicide**, **Cabrio® EG fungicide** and **Pristine® fungicide** labels may be planted immediately following the last application. For all other crops **DO NOT plant sooner than** 14 days after the last application.

BAS 500 20 F fungicide Crop specific Requirements

Crop	Target Disease	Product Use Rate per Application (fl ozs/A)	Maximum Product Rate per Season (fl ozs/A)	Minimum Time from Application to Harvest (PHI) (days)
Corn Field corn Pop corn Seed production corn	Anthracnose (<i>Colletotrichum graminicola</i>) Eyespot (<i>Kabatiella zaeae</i>) Gray leaf spot (<i>Cercospora zea maydis</i>) Northern corn leaf blight (<i>Exserohilum turcicum</i>) Northern corn leaf spot (<i>Cochliobolus carbonum</i>) Physoderma brown spot (<i>Physoderma maydis</i>) Rust common (<i>Puccinia sorghi</i>) Rust southern (<i>Puccinia polyspora</i>) Southern corn leaf blight (<i>Bipolaris maydis</i>) Yellow leaf blight (<i>Phyllosticta maydis</i>)	6	6 (0.1 lb ai/acre)	7

Application Directions Begin applications of **BAS 500 20 F** prior to disease development

BAS 500 20 F may be used with adjuvants. See the **Additives and General Tank Mixing Information** and **Mixing Order** sections for more details

No livestock feeding restrictions

DO NOT apply more than 6 fl ozs **BAS 500 20 F** (0.1 lb ai/A) **DO NOT** make more than one application of **BAS 500 20 F** per season

One additional application of a pyraclostrobin containing product may be made at the VT stage of growth or later delivering up to 0.2 lb ai/A pyraclostrobin **DO NOT** exceed a total of 0.3 lb ai/A for the combined use of pyraclostrobin containing products in field corn or seed corn when **BAS 500 20 F** is included in the treatment program

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.

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