

Please read instructions on reverse before completing form.

	United States Environmental Protection Agency Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number NOTIFICATION
--	---	--	--

Application for Pesticide - Section I

1. Company/Product Number 100-922	2. EPA Product Manager Cynthia Giles-Parker	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Blockade™ 50WG Plant Activator	PM# 22	
5. Name and Address of Applicant (Include ZIP Code) Syngenta Crop Protection, Inc. P. O. Box 18300 Greensboro, NC 27419 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below. <input type="checkbox"/> Resubmission in response to Agency letter dated _____ <input checked="" type="checkbox"/> Notification - Explain below.	<div style="text-align: right;">NOTIFICATION</div> <input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application. _____ APR 13 2001 <input type="checkbox"/> Other - Explain below.
--	--

Explanation: Use additional page(s) if necessary. (For Section I and Section II.)

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA. The following changes are being made via this notification: 1) Company name and address have been updated to reflect Syngenta Crop Protection, Inc. 2) The Conditions of Sale and Warranty statement has been changed to reflect the name change. Because Syngenta has been formed by the merger of Novartis Crop Protection, Inc. and Zeneca Ag Products, we have chosen to use the former Zeneca warranty statement as the Syngenta warranty statement. No other changes occur in the statement other than the name change. 3) The copyright date reflects Syngenta. 4) Trademark statements have been updated to reflect Syngenta for those products for which Syngenta holds the trademark. 5) The Internet address has been changed to reflect Syngenta. 6) Other places in the label which referring to the company name have been updated.

Section - III

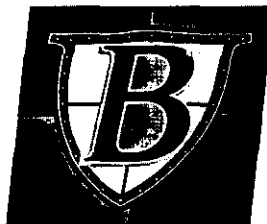
1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
<i>*Certification must be submitted</i>		If "Yes" Unit Packaging wgt. No. per Container	If "Yes" Unit Packaging wgt. No. per container	<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Nan S. Padgett	Title Label Group Leader	Telephone No. (Include Area Code) 336-632-7567
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Label Group Leader	
4. Typed Name Nan S. Padgett	5. Date March 26, 2001	

PULL HERE TO OPEN ►

BLOCKADE™



50WG
PLANT
ACTIVATOR

For protection against certain diseases of leafy vegetables

Active Ingredient:
1,2,3-benzothiadiazole-7-thiocarboxylic acid-S-methyl-ester
(CAS No. 135158-54-2)*..... 50.0%

Other Ingredients:..... 50.0%

Total:..... 100.0%

*Acibenzolar-S-methyl (ISO proposed common name)
Blockade 50WG is a water-dispersible granule.
Product of the United Kingdom

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-922 EPA Est. 67545-AZ-1

SCP 922B-M2C 0201

1.0 OUNCE U.S. Standard Measure

NOTIFICATION

APR 13 2001

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. 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 manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, Inc. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and Buyer and User assume the risk of any such use. SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall SYNGENTA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

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, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 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 polyethylene or polyvinyl chloride
- Shoes plus socks

GENERAL INFORMATION

Blockade 50WG is a selective, systemic compound used for the control of downy mildew of leafy vegetables. Blockade 50WG is an inducer of host plant resistance. Blockade 50WG exhibits an unique mode of action which mimics the natural systemic activated resistance (SAR) response found in most plant species. Blockade 50WG has no direct activity against target pathogens.

For best performance, always follow these directions:

- Blockade 50WG should be applied to plant foliage preventively, before disease is observed in the field.
- Blockade 50WG moves systemically within the plant; however uniform spray coverage is essential for best performance. Apply Blockade 50WG in sufficient water to ensure uniform coverage (see specific water volumes for each crop in directions for use tables).
- A Blockade application mimics the SAR response in plants. Maximum disease control is normally obtained 4 days after a Blockade application.

Blockade 50WG provides protection against certain diseases in the crops listed on this label. Blockade provides sufficient protection to reduce disease levels but should be tank mixed with other registered products with curative activity if disease is present at the time of application, to ensure adequate disease control or to broaden the spectrum of disease control.

Resistance Management

Blockade 50WG exhibits a mode of action unique from currently available fungicides and bactericides. Since Blockade 50WG has no direct activity on plant pathogens, the likelihood of pathogen development of insensitivity is low. However, plant pathogens are known to develop tolerance to host plant resistance and to products used repeatedly for control. Because insensitivity development cannot be fully predicted, the use of this product should conform to sensitivity management strategies established for the crop and use area. Such strategies may include rotating and/or tank mixing with products with different modes of action as well as the use of good cultural practices. Consult your local pest control advisor or extension office for details. If insensitivity to this product develops in your area, this product or other products with a similar mode of action may not provide adequate control. If you experience difficulty with control, and insensitivity is a likely cause, consult your local Syngenta Crop Protection representative, local agricultural extension office, or pest control advisor for the best alternative method of control. Syngenta encourages responsible product stewardship to ensure effective long-term disease control.

FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR DISEASE CONTROL, AND/OR ILLEGAL RESIDUES.

Spray Equipment

Thorough coverage is necessary to provide maximum disease control. Applications using sufficient water volume to provide thorough and uniform coverage generally provide the most effective disease control.

To avoid spray drift, do not apply when conditions favor drift beyond the target area. Avoid spray overlap, as crop injury or illegal residues may occur.

Equip sprayers with nozzles that provide accurate and uniform application. Be certain that nozzles are the same size and uniformly spaced across the boom. Always calibrate sprayer before use.

Use a pump with capacity to: (1) maintain adequate psi at nozzles, and (2) provide sufficient agitation in the tank to keep mixture in uniform suspension – this requires recirculation of 10% of tank volume per minute. Use a jet agitator or liquid sparge tube for agitation. Do not air sparge.

Use screens to protect the pump and to prevent nozzles from clogging. Screens placed on suction side of pump should be *16-mesh or coarser*. Do not place a screen in the recirculation line. Use 50-mesh or coarser screens between the pump and boom, and where required, at nozzles. Check nozzle manufacturer's recommendations.

For more information on spray equipment and calibration, consult sprayer equipment manufacturers and state recommendations. For specific local directions and spray schedules, consult the current state agricultural extension service recommendations.

Mixing Procedures

Prepare no more spray mixture than is needed for the immediate spray operation. Thoroughly clean spray equipment before using this product to prevent possible crop injury, mixing or nozzle clogging problems from spray tank contamination. Vigorous agitation is necessary for proper dispersal of the product. Maintain maximum agitation throughout the spraying operation. Do not let the spray mixture stand overnight in the spray tank. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area.

Blockade 50WG Alone: Add $\frac{1}{2}$ of the required amount of water to the mix tank. With the agitator running, add the Blockade 50WG to the tank. Continue agitation while adding the remainder of the water. Begin application of the solution after the Blockade 50WG has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

Blockade 50WG + Tank Mixtures: Blockade 50WG is compatible with most insecticide and fungicide products. However, the physical compatibility of Blockade 50WG with tank mix partners should be tested before use. To determine the physical compatibility of Blockade 50WG with other products, use a jar test described below.

Using a quart jar, add the proportionate amounts of the products to 1 qt. of water. Add wettable powders and water-dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 5 minutes. If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been demonstrated, use the same procedure for adding required ingredients to the spray tank.

Add $\frac{1}{2}$ of the required amount of water to the mix tank. Start the agitator running before adding any tank mix partners. In general, tank mix partners should be added in this order: products packaged in water-soluble packaging, wettable powders, wettable granules (dry flowables) such as Blockade 50WG, liquid flowables, liquids and emulsifiable concentrates. Always allow each tank mix partner to become fully dispersed before adding the next product. Provide sufficient agitation while adding the remainder of the water. Maintain agitation until all of the mixture has been applied.

Note: When using Blockade 50WG in tank mixtures, all products in water-soluble packaging should be added to the tank before any other tank mix partner, including Blockade 50WG. Allow the water-soluble packaging to completely dissolve and the product(s) to completely disperse before adding any other tank mix partner to the tank.

If using Blockade 50WG in a tank mixture, observe all directions for use which appear on the tank mix product label. No label dosage rate should be exceeded, and the most restrictive label precautions and limitations should be followed. This product should not be mixed with any product which prohibits such mixing. Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are registered.

Chemigation: Do not apply this product through any type of irrigation system.

RECOMMENDED FOLIAR APPLICATIONS

Crop	Pest	Rate Per Application	Remarks
Head Lettuce	Downy Mildew	Foliar application: 3/4-1 oz./A	Apply preventively on a 7 to 10-day schedule. Begin applications after thinning. Do not make more than 4 applications per crop.

Apply in sufficient water to ensure adequate coverage using a minimum of 20 gals. of water per acre. If downy mildew is present in the production area, the first application should be made in tank mixture with another registered downy mildew fungicide; once activated, the supplemental applications of Blockade should be applied alone. Banded applications can be made early when plants are small (7-inch proportional band) as long as coverage is adequate.

Notes: (1) Do not apply prior to thinning or within 5 days of transplanting. (2) Do not apply Blockade to plants that are stressed due to drought, excessive moisture, cold weather, or herbicide injury, etc. (3) Allow 7 days between the last application and harvest. (4) Do not apply by air. (5) Do not apply more than 4 oz. of Blockade per acre per season.

For use in California only, in the following counties: Santa Clara, Monterey, San Luis Obispo, Santa Barbara, Ventura, Los Angeles, San Diego, Santa Cruz, San Benito, San Mateo.

Crop	Pest	Rate Per Application	Remarks
Romaine Lettuce (green types only)	Downy Mildew	Foliar application: 3/4-1 oz./A	Apply preventively on a 7 to 10-day schedule. Begin applications after thinning. Do not make more than 2 applications per crop.

Apply in sufficient water to ensure adequate coverage using a minimum of 20 gals. of water per acre. If downy mildew is present in the production area, the first application should be made in tank mixture with another registered downy mildew fungicide; once activated, the supplemental applications of Blockade should be applied alone. Banded applications can be made early when plants are small (7-inch proportional band) as long as coverage is adequate.

Notes: (1) Do not apply prior to thinning or within 5 days of transplanting. (2) Do not apply Blockade to plants that are stressed due to drought, excessive moisture, cold weather, or herbicide injury, etc. (3) Allow 7 days between the last application and harvest. (4) Do not apply by air. (5) Do not apply more than 2 oz. of Blockade per acre per season.

For use in California only, in the following counties: Santa Clara, Monterey, San Luis Obispo, Santa Barbara, Ventura, Los Angeles, San Diego, Santa Cruz, San Benito, San Mateo.

Crop	Pest	Rate Per Application	Remarks
Spinach	Downy Mildew White Rust	Foliar application: 3/4 oz./A	Apply preventively on a 7 to 10-day schedule. Begin applications at first to second true leaf or after thinning. Do not make more than 3 consecutive applications per crop.

Apply in sufficient water to ensure adequate coverage using a minimum of 20 gals. of water per acre. Banded applications can be made early when plants are small (proportional band) as long as coverage is adequate. Blockade may be used following the at-planting Ridomil Gold® EC or GR application for control of downy mildew or white rust.

Notes: (1) Do not apply Blockade to young seedlings. (2) Do not apply Blockade to plants that are stressed due to drought, excessive moisture, cold weather, or herbicide injury, etc. (3) Allow 7 days between the last application and harvest. (4) Do not apply by air. (5) Do not apply more than 2 1/4 oz. of Blockade per acre per season.

For use in California only, in the following counties: Santa Clara, Monterey, San Luis Obispo, Santa Barbara, Ventura, Los Angeles, San Diego, Santa Cruz, San Benito, San Mateo.

Rotational (Plantback) Restriction

Do not plant any crop within 30 days after the last application of Blockade 50WG, except for the crops listed below.

- Tobacco,
- leafy vegetables,
- and fruiting vegetables.

STORAGE AND DISPOSAL

Store in a cool, dry place.

Pesticide Disposal

Do not contaminate water, food, or feed by storage, disposal, or cleaning of equipment. Pesticide wastes may be toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of federal law. If these wastes cannot be used according to label instruction, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

Container Disposal

Completely empty bag into application equipment. Dispose of empty bag in a sanitary landfill, by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

FIRST AID STATEMENTS	
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 lens, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin:	<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.
Note to Physician:	If ingested, induce emesis or lavage stomach. Treat symptomatically.
Hotline	In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

Personal Protective Equipment

Some of the materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for 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 polyethylene or polyvinyl chloride
- Shoes plus socks

The State of California believes prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Engineering Control Statements

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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.

Environmental Hazards

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash water or rinsate.

Physical or Chemical Hazards

Do not use, pour, spill, or store near heat or open flame.

Blockade™ and Ridomil Gold® trademarks of Syngenta
U.S. Patent No. 5,153,200

©2001 Syngenta

Product of the United Kingdom

Syngenta Crop Protection, Inc.
Greensboro, North Carolina 27409
www.syngenta-us.com

SCP 922B-M2C 0201

BLOCKADE™ 50WG

PLANT ACTIVATOR

For protection against certain diseases of leafy vegetables

Active Ingredient:

1,2,3-benzothiadiazole-7-thiocarboxylic acid-S-methyl-ester (CAS No. 135158-54-2)* 50.0%

Other Ingredients: 50.0%

Total: 100.0%

*Acibenzolar-S-methyl (ISO proposed common name)

Blockade 50WG is a water-dispersible granule.

See directions for use in attached booklet.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

EPA Reg. No. 100-922

EPA Est. 67545-AZ-1

Blockade™ trademark of Syngenta

Syngenta Crop Protection, Inc. Greensboro, NC 27409

U.S. Patent No. 5,153,200

www.syngenta-us.com

©2001 Syngenta

SCP 922B-M2C 0201

1.0 OUNCE U.S. Standard Measure



KEEP OUT OF REACH OF CHILDREN. CAUTION

Precautionary Statements

Hazards to Humans and Domestic Animals

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

First Aid Statements

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lens, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If on skin: 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.

Note to Physician: If ingested, induce emesis or lavage stomach. Treat symptomatically.

Hotline: In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

Environmental Hazards

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash water or rinsate.

Physical or Chemical Hazards

Do not use, pour, spill, or store near heat or open flame.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

Storage

Store in a cool, dry place.

Chemigation

Do not apply this product through any type of irrigation system.

©2001 Syngenta

Product of the United Kingdom

Syngenta Crop Protection, Inc.
Greensboro, NC 27409
www.syngenta-us.com

