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PULL HERE TO OPEN 

# ACTIGARD™



## 50WG PLANT ACTIVATOR

For protection against certain diseases of leafy vegetables, tomatoes, and tobacco

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)  
Actigard 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 922A-M2D 0201**

**7.5 OUNCES** U.S. Standard Measure

**NOTIFICATION**

MAR 3 0 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

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

For best performance, always follow these directions:

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

Actigard 50WG provides protection against certain diseases in the crops listed on this label. Actigard 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

Actigard 50WG exhibits a mode of action unique from currently available fungicides and bactericides. Since Actigard 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.

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

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

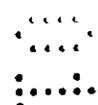
Using a quart jar, add the proportionate amounts of the products to 1 qt. of water. Add wettable powders and water-dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 5 minutes. If the combination remains mixed 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 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 Actigard 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 Actigard 50WG in tank mixtures, all products in water-soluble packaging should be added to the tank before any other tank mix partner, including Actigard 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 Actigard 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**

**Fruiting Vegetables**

Crop	Pest	Rate Per Application	Remarks
Tomatoes	Bacterial Spot Bacterial Speck	<b>Foliar application:</b> 1/3-3/4 oz./A	Begin applications within one week of transplanting or emergence; apply with ground equipment only. Make up to 6 weekly, sequential applications.  3/4 oz. per 100 gals. of water (minimum of 1/3 oz./A in early season and maximum of 3/4 oz./A by end of season). See table below.

**Notes:** Begin season with low water volumes; as plant canopy increases, the Actigard rate should increase to ensure activity. The table below provides guidance on increasing the rate through the season (a dilute carrier volume of 100 gals. of water per acre is assumed for fully grown tomato plants).

Amount of Actigard (oz./A)	Gals./A	Weeks following transplanting
1/3	30-50	0-2
1/2	60-70	3-4
3/4	70-100	5-8

**Notes:** (1) Use the higher rate over time, even if volume does not increase. If gallonage at any particular application is higher than in this example, increase Actigard accordingly. i.e., keep the concentration the same but do not exceed 3/4 oz./100 gals. concentration. (2) Allow 14 days between the last application and harvest. (3) Do not apply more than 6 times per crop per season. (4) Do not apply on less than 7-day interval. (5) Do not apply more than 4 oz. of Actigard per acre per season.

*Precaution: Under certain conditions, this product, when used on tomatoes, may lead to reductions in yield. Syngenta recommends that the user and/or grower test this product in order to determine its suitability for its intended use in tomatoes. Syngenta makes this product available to the user and/or grower solely to the extent that the benefit and utility, in the sole opinion of the user and/or grower, outweigh the extent of potential reductions in yield of tomatoes following use of Actigard. The decision to use or not use Actigard in tomatoes must be made by each individual user and/or grower on the basis of possible reductions in yield, the severity of disease incidence, the cost of alternate disease control options, if any, and other factors.*

**Leafy Vegetables**

Crop	Pest	Rate Per Application	Remarks
Spinach	Downy Mildew White Rust	<b>Foliar application:</b> 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. Actigard 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 Actigard to young seedlings. (2) Do not apply Actigard 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 1/2 oz. of Actigard per acre per season.

For use in Texas only, in the following counties:

TX: Atascosa, Dimmitt, Frio, Kinney, LaSalle, Mecina, Uvalde, Zavala, Maverick, Hidalgo, Cameron, Willacy, Starr, Webb, Zapata.

**Tobacco**

Crop	Pest	Rate Per Application	Remarks
Tobacco (Flue-cured, Burley, Dark only)	Blue Mold	<b>Foliar application:</b> 1/2 oz./A	Begin applications after plants reach a height of 18 inches. Apply on a preventive schedule when blue mold threatens. Another registered blue mold product should be used prior to 18 inches for early season control and after the final application if conditions are conducive for disease. Make up to 2 applications on a 10-day schedule.

Apply in a minimum of 20 gals. of water per acre.

Applications of Actigard may result in leaf yellowing. This cosmetic yellowing normally disappears after the final application.

# Actigard™ 50WG

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**Notes:** (1) Do not apply Actigard to plants that are stressed due to drought, excessive moisture, cold weather, or herbicide injury, etc. (2) Do not apply Actigard to tobacco in plant beds or in greenhouses/plant houses. (3) Do not apply Actigard with foliar fertilizers and crop oils. (4) Avoid spray overlap because injury may result. (5) Do not apply by air. (6) Do not apply more than 1 oz. of Actigard per acre per season.

Allow 21 days between the last application and harvest.

### Rotational (Plantback) Restriction

Do not plant any crop within 30 days after the last application of Actigard 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	
<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 lens, if present, after the 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:</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>Note to Physician:</b>	If ingested, induce emesis or lavage stomach. Treat symptomatically.
<b>Hotline</b>	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.

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

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Product of the United Kingdom

Syngenta Crop Protection, Inc.  
Greensboro, North Carolina 27409  
[www.syngenta-us.com](http://www.syngenta-us.com)

SCP 922A-M2D 0201



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For protection against certain diseases of leafy vegetables, tomatoes, and tobacco

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**Other Ingredients:** . . . . . 50.0%

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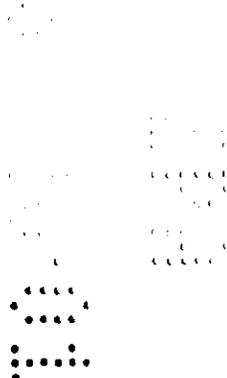
Actigard 50WG is a water-dispersible granule.

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  
Actigard™ trademark      Syngenta Crop Protection, Inc.  
of Syngenta                      Greensboro, NC 27409  
U.S. Patent No. 5,153,200      www.syngenta-us.com  
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**7.5 OUNCES** U.S. Standard Measure



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CAUTION**

**Precautionary  
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**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.

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