



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (H7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg.  
Number:

10182-  
416

Date of Issuance:

JUN 3 1997

NOTICE OF PESTICIDE:

☒ Registration  
☐ Reregistration

Term of Issuance:

Conditional

(under FIFRA, as amended)

Name of Pesticide Product:

ICIA5504 80WG  
Fungicide

Name and Address of Registrant (include ZIP Code):

Zeneca Ag Products  
1800 Concord Pike  
P.O. Box 15458  
Wilmington, Delaware 19850-5458

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is registered in accordance with FIFRA sec. 3(c)(7)(C) provided that you:

1. Make the changes to the label that are listed below before you release the product for shipment:
  - a. Revise the EPA Registration Number to read, "EPA Reg. No. 10182-416".
  - b. Add the following advisory to the "ENVIRONMENTAL HAZARDS" section of the label:

"The active ingredient, Azoxystrobin, in this product can be persistent for several months or longer. Azoxystrobin has degradation products which have properties similar to chemicals which are known to leach through soil to ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination."

Signature of Approving Official:

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Date:

JUN 3 1997

2 Satisfy the requirements listed below by June 30, 1999

a Product Chemistry

- 1 Storage Stability (Guideline Reference Number 63-17) A one year interim report has been received

b Toxicology

- 1 Acute Oral Neurotoxicity Rat (Guideline Reference Number 81-8) Data intended to upgrade this study have been submitted by Zeneca Ag Products
- 11 Subchronic Neurotoxicity Feeding - Rat (Guideline Reference Number 82 7) Data intended to upgrade this study have been submitted by Zeneca Ag Products

c Residue Chemistry

- 1 In accordance with section 408(b)(2)(E)(11) of the Federal Food, Drug, and Cosmetic Act (FFDCA), because anticipated or actual residue levels are being relied on for banana pulp, the Agency is requiring, pursuant to subsection (f)(1), that you provide, five years after the date on which the tolerance is established, modified, or left in effect, and thereafter as the Administrator deems appropriate, data demonstrating that such residue levels are not above the levels so relied on. If such data are not so provided, or if the data do not demonstrate that the residue levels are not above the levels so relied on, the Administrator shall, not later than 180 days after the date on which the data were required to be provided, issue a regulation under subsection (e)(1), or an order under subsection (f)(2), as appropriate, to modify or revoke the tolerance

c Ecological Effects

- 1 Avian Reproduction (Bobwhite) (Chronic, TGAI) (Guideline Reference Number 71-4) The first such study to be submitted was found to be invalid and must be replaced
- 11 Mysid Shrimp Chronic Toxicity (Guideline Reference Number 72-4b) This requirement has been triggered by the results of the acute aquatic toxicity studies and by estimated aquatic exposure levels

d Environmental Fate

- 1 Field Dissipation (Guideline Reference Number 164-1) studies to support use of Azoxystrobin in the peanut/peach production areas of the United States
- 11 Droplet Size Spectrum (Guideline Reference Number 201-1) This requirement can be fulfilled by submission of generic data generated by the Spray Drift Task Force
- 111 Drift Field Evaluation (Guideline Reference Number 202-1) This requirement can be fulfilled by submission of generic data generated by the Spray Drift Task Force

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- 3 Submit one copy of your final printed label before you release this product 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 stamped copy of the label is enclosed for your records  
If you have any questions about this letter, please contact John Bazuin at (703)305-7381

Sincerely yours,

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Cynthia L Giles Parker  
Team Leader (22)  
Fungicide Branch  
Registration Division (7505C)

Attachments Product label, stamped "Accepted with Comments"

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ICIA5504 80WG FUNGICIDE

For use to control certain diseases of bananas, grapes, peaches, peanuts, pecans, tomatoes and turf.

**ACTIVE INGREDIENT:**

Azoxystrobin: methyl (E)-2-{2-[6-(2-cyanophenoxy)  
pyrimidin-4-yloxy]phenyl}-3-methoxyacrylate\* ..... 80%

**INERT INGREDIENTS:** ..... 20%

**TOTAL** ..... 100%

Contains 0.8 lb. ai/lb. product

\*IUPAC

EPA REG NO. 10182-416  
EPA EST. NO.

NET WT. 1 lb. (.4 kg)  
2 lbs. (.9 kg)

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE INSIDE FOR STATEMENT OF PRACTICAL TREATMENT  
AND PRECAUTIONARY STATEMENTS

Zeneca Ag Products  
Zeneca Inc.  
Wilmington DE 19850-5458

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

6/3/97

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

10182-416

### STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED:** Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention.

**IF IN EYES:** Flush eyes with plenty of water. Call a physician if irritation persists.

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**FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL 1-800-F-A-S-T-M-E-D (327-8633).**

**FOR CHEMICAL EMERGENCY:** Spill, leak, fire, exposure, or accident, call CHEMTREC, 1-800-424-9300.

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### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

##### CAUTION

HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN OR INHALED. CAUSES MODERATE EYE IRRITATION. Avoid contact with eyes, skin or clothing. Wear long-sleeved shirt and long pants, socks and shoes and waterproof gloves. Wash thoroughly with soap and water after handling.

##### PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

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#### 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.
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## ENVIRONMENTAL HAZARDS

Degradates of this chemical have properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

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 disposing of equipment washwaters.

Notify state and/or federal authorities and Zeneca Inc. immediately if you observe any adverse environmental effects due to use of this product.

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**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. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of ZENECA or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold ZENECA and Seller harmless for any claims relating to such factors.

ZENECA 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 this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or ZENECA, and Buyer and User assume the risk of any such use. ZENECA 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 ZENECA 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 ZENECA 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 ZENECA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

ZENECA 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 ZENECA.

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### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

FAILURE TO FOLLOW THE USE DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN PLANT INJURY OR POOR DISEASE CONTROL.

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 USES:** Bananas, Grapes, Pecans, Peaches, Peanuts, Tomatoes and Commercial Turf Farms.

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### 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), 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 over long-sleeved shirt and long pants
- Waterproof gloves
- Socks and chemical resistant footwear.

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**NON-AGRICULTURAL USES:** Golf Courses.

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### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. The area being treated must be vacated by unprotected persons.



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Do not treat areas while unprotected humans or domestic animals are present in the treatment areas. Because certain states may require more restrictive reentry intervals, consult your State Department of Agriculture for further information.

Do not allow entry into treatment area until area that was treated with ICIA5504 80WG is dry.

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## STORAGE AND DISPOSAL

**PROHIBITIONS:** Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

**STORAGE:** Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, sweep and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to the label.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

### CONTAINER DISPOSAL:

**Plastic Containers:** Triple rinse (or equivalent); then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or alternatives allowed by State and local authorities.

**Paper/Box Container:** Do not reuse container. Completely empty container into application equipment. Then dispose of empty container in sanitary landfill, or alternatives allowed by State and local authorities.

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## GENERAL INFORMATION

ICIA5504 80WG is a broad spectrum, preventative fungicide with systemic properties recommended for the control of many important plant diseases on bananas, grapes, peaches, peanuts, pecans, tomatoes and turf. ICIA5504 may be applied as a foliar spray in alternating spray programs or in tank mixes with other registered, crop protection products. ICIA5504 may be applied with all types of spray equipment commonly used for making ground and aerial applications. For ground applications apply ICIA5504 in sufficient water volume for adequate coverage and canopy penetration. For aerial applications to non-orchard crops apply ICIA5504 in a minimum of three gallons of water per acre. For aerial applications in orchard crops apply ICIA5504 in a minimum of ten gallons of water per acre. All applications should be made according to the use directions that follow.

## GENERAL USE PRECAUTIONS

Do not apply ICIA5504 80WG through any type of irrigation system or through any ultra low volume (ULV) spray system. Do not graze or feed clippings from treated turf areas to animals. Crops in this label may be planted immediately after last treatment. Do not plant other crops within 45 days after last application.

## INTEGRATED PEST (DISEASE) MANAGEMENT

ICIA5504 should be integrated into an overall disease and pest management strategy whenever the use of a fungicide is required. Cultural practices known to reduce disease development should be followed. The SPECIFIC USE DIRECTIONS section in this label identifies specific IPM recommendations for each crop. Consult your local agricultural and turf authorities for additional IPM strategies established for your area. ICIA5504 80WG may be used in State Agricultural Extension advisory (disease forecasting) programs which recommend application timing based on environmental factors favorable for disease development.

## RESISTANCE MANAGEMENT

Some plant pathogens are known to develop resistance to products used repeatedly for disease control. In order to maintain ICIA5504 as a valuable disease control tool and because the development of resistance cannot be predicted, the SPECIFIC USE DIRECTIONS section of this label provides use directions to implement resistance management strategies for each crop. Consult your local or state agricultural authorities for resistant management strategies that are complimentary to those in this label. ICIA5504 is not cross resistant to other classes of fungicides which have different modes of action.

## MIXING

ICIA5504 80WG is intended for dilution with water for spray application and may be used in all types of spray equipment commonly used for making ground and aerial applications. Partially fill the spray tank with clean water and begin agitation. Add the specified amount of ICIA5504 to the tank, allowing time for good dispersion, then add an adjuvant if required. Finish filling the tank to the desired volume to obtain the proper spray concentration. Maintain agitation

throughout the spraying operation. Do not allow spray mixture to stand overnight or for prolonged periods. Make up only the amount of spray required for immediate use.

#### **TANK MIXES/COMPATIBILITY**

ICIA5504 80WG is compatible with many commonly used fungicides, liquid fertilizers, herbicides, insecticides and biological control products. If tank mixes are desired, observe all directions, precautions, and limitations on labeling of all products used. Consult compatibility charts or your local or state agricultural or turf authorities for compatibility information. Do not combine ICIA5504 80WG in the spray tank with pesticides, surfactants or fertilizers, unless compatibility charts or your own prior use has shown that the combination is physically compatible, effective and non-injurious under your conditions of use. If physical compatibility is unknown, the following procedure should be followed: Pour the recommended proportions of the products into a suitable container of water, mix thoroughly and allow to stand at least twenty (20) minutes. If the combination remains mixed or can be re-mixed readily, the mixture is considered physically compatible. Products should be added to the spray tank in the following order: the recommended rate of ICIA5504 80WG, other WG or dry flowable formulations, wettable powders, and flowable (aqueous suspensions) products.

#### **SPECIFIC USE DIRECTIONS**

##### **BANANAS**

ICIA5504 80WG fungicide is recommended for the control of black and yellow sigatoka on bananas.

Integrated Pest (Disease) Management: ICIA5504 should be integrated into an overall disease management strategy for each plantation. Practices known to reduce disease development should be followed. These include canopy management through removal of suckers and proper plant spacing, proper selection of varieties with tolerance or resistance to disease, removal of plant debris in which inoculum overwinters, good surface water drainage, and the use of fungicides when required.

Resistance Management: A disease management program that includes alternation between ICIA5504 and other labeled fungicides that have a different mode of action is essential to prevent pathogen populations from becoming resistant to ICIA5504. This resistance management strategy should NOT include alternation or tank mixes with products to which resistance has already developed. Do not apply more than two sequential sprays of ICIA5504 before alternating with a fungicide that has a different mode of action. Do not make more than eight (8) applications of ICIA5504 per acre in a 12 month period.

Application Directions: ICIA5504 should be applied prior to or in the early stages of disease development. Applications may be made by ground or by air. Proper adjustment and calibration of spraying equipment to give good canopy penetration and coverage is essential for good disease control. Use sufficient volumes of water to ensure adequate coverage of plant parts to be protected. An adjuvant may be added at recommended rates to improve coverage. The higher rates in the rate range and/or shorter spray intervals may be required

under conditions of heavy infection pressure, highly susceptible varieties, or when disease conducive environmental conditions exist.

May be applied the day of harvest.

Do not apply more than 1.35 lbs product/acre/year (1.08 lb ai/A).

## GRAPES

ICIA5504 80WG fungicide is recommended for the control of powdery mildew, downy mildew, black rot and Phomopsis cane and leafspot on grapes.

Integrated Pest (Disease) Management: ICIA5504 should be integrated into an overall disease management strategy for each vineyard. Practices known to reduce disease development should be followed. These include canopy management through pruning and thinning, proper selection of varieties with tolerance or resistance to disease, proper timing and placement of irrigation, removal of plant debris in which inoculum overwinters and the use of fungicides when required.

Resistance Management: A disease management program that includes alternation between ICIA5504 and other labeled fungicides that have a different mode of action is essential to prevent pathogen populations from becoming resistant to ICIA5504. This resistance management strategy should NOT include alternation or tank mixes with products to which resistance has already developed. Do not apply more than two sequential sprays of ICIA5504 before alternating with a fungicide that has a different mode of action. Do not make more than six (6) applications of ICIA5504 per acre per year.

Application Directions: ICIA5504 should be applied prior to or in the early stages of disease development. Applications may be made by ground or by air. Proper adjustment and calibration of spraying equipment to give good canopy penetration and coverage is essential for good disease control. Use sufficient volumes of water to ensure adequate coverage of plant parts to be protected. The addition of a nonionic surfactant at 0.05 % V/V may improve coverage. The higher rates in the rate range and/or shorter spray intervals may be required under conditions of heavy infection pressure, highly susceptible varieties, or when disease conducive environmental conditions exist. In vineyards where control of more than one disease is required, always use the rate range recommended for the disease requiring the highest rate of ICIA5504.

Do not apply within 14 days of harvest.

Do not apply more than 1.88 lbs product/acre/year (1.5 lb ai/A).

## PEACHES

ICIA5504 80WG fungicide is recommended for the control of blossom blight, fruit brown rot and scab on peaches.

Integrated Pest (Disease) Management: ICIA5504 should be integrated into an overall disease management strategy for each orchard. Practices known to reduce disease development should be followed. These include selection of varieties with tolerance to

disease, removal of plant debris in which inoculum overwinters, proper pruning to provide sunlight and aeration and the use of fungicides when required.

Resistance Management: A disease management program that includes alternation between ICIA5504 and other labeled fungicides that have a different mode of action is essential to prevent pathogen populations from becoming resistant to ICIA5504. When ICIA5504 is being applied for the control of blossom blight no more than two (2) sequential applications of ICIA5504 should be made before alternating with a fungicide that has a different mode of action. In orchards where ICIA5504 is applied for brown rot do not apply more than one application of ICIA5504 before alternating with other chemistry. Do not make more than eight (8) applications per acre per year

Application Directions: ICIA5504 should be applied prior to or in the early stages of disease development. Applications may be made by ground or by air. Proper adjustment and calibration of spraying equipment to give good tree penetration and coverage is essential for good disease control. Use sufficient volumes of water to ensure adequate coverage of plant parts to be protected. The addition of a nonionic surfactant at 0.5 pint/100 gallons of water may improve coverage. The higher rates in the rate range and/or shorter spray intervals may be required under conditions of heavy infection pressure, highly susceptible varieties, or when disease conducive environmental conditions exist.

Do not apply within 14 days of harvest.

Do not apply more than 1.5 lbs product/acre/year (1.2 lb ai/A).

## PEANUTS

ICIA5504 80WG fungicide is recommended for the control of early leafspot and late leafspot, Rhizoctonia peg and pod rot and stem rot/white mold (*Sclerotium rolfsii*) on peanuts.

Integrated Pest (Disease) Management: ICIA5504 should be integrated into an overall disease management strategy for each peanut field. Practices known to reduce disease development should be followed. These include proper selection of varieties with tolerance or resistance to disease, proper timing and placement of irrigation, crop rotation, removal of plant debris in which inoculum overwinters, crop residue management and the use of fungicides when required.

Resistance Management: Do not make more than two (2) applications of ICIA5504 per acre per year.

Application Directions: ICIA5504 should be applied at approximately 60 and 90 days after planting as a foliar application and in a sufficient volume of water for good coverage. Applications may be made by ground or by air. The higher rates in the rate range may be required under conditions of heavy infection pressure, highly susceptible varieties, or when disease conducive environmental conditions exist. These two applications of ICIA5504 will provide season-long protection against the soil borne diseases labeled and will also provide control of early and late leafspot for a 10-14 day period after each spray. Additional applications of other labeled fungicides on a leafspot application schedule will be required to

**BEST AVAILABLE COPY**

provide season-long disease control of the leafspot diseases. Adjuvants may be added to the spray tank to improve coverage.

Do not apply within 50 days of harvest.

Do not feed peanut hay.

Do not apply more than 1.0 lbs product/acre/year (0.8 lbs ai/acre/year).

## **PECANS**

ICIA5504 80WG fungicide is recommended for the control of anthracnose (*Glomerella shuck* and kernel rot) and scab on pecans.

Integrated Pest (Disease) Management: ICIA5504 should be integrated into an overall disease management strategy for each orchard. Practices known to reduce disease development should be followed. These include selection of varieties with tolerance to disease, removal of plant debris in which inoculum overwinters and the use of fungicides when required.

Resistance Management: A disease management program that includes an alternating seasonal spray program or a full-season alternating block spray program between ICIA5504 and other labeled fungicides that have a different mode of action is essential to prevent pathogen populations from becoming resistant to ICIA5504. Use of the alternating seasonal program requires applications of ICIA5504 either early season (from bud break through pollination) or as cover sprays after pollination, but not full season use. If ICIA5504 is applied in the cover spray period, do not spray ICIA5504 as early season sprays the following year. The full-season alternating block spray program requires alternation of blocks of no more than four ICIA5504 sprays with other labeled fungicides in a season long alternating pattern beginning at budbreak. Do not make more than six (6) applications per acre per year.

Application Directions: ICIA5504 should be applied prior to or in the early stages of disease development. Applications may be made by ground or by air. Proper adjustment and calibration of spraying equipment to give good tree penetration and coverage is essential for good disease control. Use sufficient volumes of water to ensure adequate coverage of plant parts to be protected. The addition of a nonionic surfactant at 1 pint/100 gallons of water may improve coverage. The higher rates in the rate range and/or shorter spray intervals may be required under conditions of heavy infection pressure, highly susceptible varieties, or when disease conducive environmental conditions exist.

Do not apply within 45 days of harvest.

Do not apply more than 1.5 lbs product/acre/year (1.2 lb ai/A).

## **TOMATOES**

ICIA5504 80WG is recommended for the control of anthracnose, early blight, late blight and *Septoria* leafspot in tomatoes.

Integrated Pest (Disease) Management: ICIA5504 should be integrated into an overall disease management strategy for each field. Practices known to reduce disease development

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should be followed. These include proper selection of varieties with tolerance to disease, removal of plant debris in which inoculum overwinters, plant residue management, crop rotation, irrigation management and the use of fungicides when required.

**Resistance Management:** A disease management program that includes alternation between ICIA5504 and other labeled fungicides that have a different mode of action is essential to prevent pathogen populations from becoming resistant to ICIA5504. When ICIA5504 is being applied for the control of early blight, Septoria leafspot and/or anthracnose, no more than four sequential applications of ICIA5504 should be made before alternating with a fungicide with a different mode of action. When ICIA5504 is being applied for the control of late blight, no more than two sequential applications of ICIA5504 should be made before alternation with a fungicide with a different mode of action. If late blight should occur during an early blight spray program, switch immediately to the late blight spray program beginning with a fungicide that has a different mode of action. Do not make more than eight (8) applications per acre per year.

**Application Directions:** ICIA5504 should be applied prior to or in the early stages of disease development. Applications may be made by ground or by air. Proper adjustment and calibration of spraying equipment is essential to ensure proper coverage for good disease control. Use sufficient volumes of water to ensure adequate coverage of plant parts to be protected. The higher rates in the rate range and/or shorter spray intervals may be required under conditions of heavy infection pressure, highly susceptible varieties, or when disease conducive environmental conditions exist.

Do not apply with a surfactant or crop oil concentrate due to the potential for phytotoxicity.

Do not apply within 1 day of harvest.

Do not apply more than 1.0 lbs. product/acre/year (0.8 lb ai/A)

DIRECTIONS FOR APPLICATION

Crop	Target Diseases	Use Rate oz product/A (lb aVA)	Remarks
Bananas	Black Sigatoka ( <i>Mycosphaerella fijiensis</i> ) Yellow Sigatoka ( <i>Mycosphaerella musicola</i> )	1.8-2.7 (0.09-0.135)	ICIA5504 should be applied in an alternating block spray program. Begin applications prior to disease development and continue applications throughout the season every 12-14 days, alternating blocks of no more than two ICIA5504 sprays with other fungicides that have a different mode of action. Do not alternate or tank mix with fungicides to which resistance has developed in the pathogen population. Do not apply more than two sequential sprays of ICIA5504.  Do not make more than eight (8) applications per acre during any 12 month period. May be applied the day of harvest.
Grapes	Downy Mildew ( <i>Plasmopara viticola</i> )  Phomopsis Cane and Leaf Spot ( <i>Phomopsis viticola</i> )  Powdery Mildew ( <i>Uncinula necator</i> )	3.2-5.0 (0.16-0.25)	ICIA5504 should be applied in an alternating block spray program. Begin ICIA5504 applications at budbreak and continue applications throughout the season every 10-14 days, alternating between blocks of no more than two ICIA5504 sprays and other fungicides which have a different mode of action. Do not alternate or tank mix with fungicides to which resistance has developed in the pathogen population. Do not apply more than two sequential sprays of ICIA5504.  Do not make more than six (6) applications per acre per year. Do not apply within 14 days of harvest.
	Black Rot ( <i>Guignardia bidwellii</i> )	2.2-5.0 (0.11-0.25)	
Peaches	Blossom Blight ( <i>Monilinia fructicola</i> )	2.0-3.0 (0.1-0.15)	Blossom Blight: Begin applications at early bloom and continue through petal fall. Do not apply more than two applications of ICIA5504 before alternating with fungicides that have a different mode of action. Do not alternate or tank mix with fungicides to which resistance has developed in the pathogen population.
	Brown Rot ( <i>Monilinia fructicola</i> )	2.0-3.0 (0.1-0.15)	Brown Rot: Do not make more than one application of ICIA5504 for brown rot control. ICIA5504 may be applied up to 14 days before harvest. If severe disease conditions persist, additional sprays at or near harvest with alternative fungicides may be necessary.
	Scab ( <i>Cladosporium carpophilum</i> )	1.4-3.0 (0.07-0.15)	Scab: Begin applications at petal fall and continue on 12-14 day intervals.  Do not make more than eight (8) applications on peaches per acre per year for all diseases. Do not apply within 14 days of harvest.
Peanuts	Early Leafspot ( <i>Cercospora arachidicola</i> )  Late Leafspot ( <i>Cercosporidium personatum</i> )  Rhizoctonia Peg and Pod Rot ( <i>Rhizoctonia solani</i> )  Stem Rot/White Mold ( <i>Sclerotium rolfsii</i> )	2.0-8.0 (0.1-0.4)	Apply ICIA5504 as a foliar application at approximately 60 and 90 days after planting for control of soil borne diseases. These two applications of ICIA5504 will provide season-long protection against the soil borne diseases labeled and will also provide control of early and late leafspot for a 10-14 day period after each spray. Additional foliar sprays with other fungicides on a normal leafspot schedule will be required for season-long control of early and late leafspot.  Do not make more than two (2) applications per acre per year. Do not apply within 50 days of harvest. <u>Do not feed peanut hay.</u>



Crop	Target Diseases	Use Rate oz product/A (lb a/A)	Remarks
Pecans	Anthracnose ( <i>Glomerella cingulata</i> )	2.0-4.0 (0.1-0.2)	Alternating Seasonal Spray Program - Apply ICIA5504 either early season or as cover sprays, but not both. For early season applications, begin sprays at bud break and continue on a 2 week schedule through pollination. For cover spray applications, begin 3 weeks after the final early season application and continue on a 3 week schedule for the remainder of the season.
	Scab ( <i>Cladosporium caryigenum</i> )		Alternating Block Spray Program - Apply ICIA5504 season long in an alternating block program with other fungicides with different modes of action. Blocks of no more than four ICIA5504 sprays should be applied in alternation with other fungicides to which resistance has not developed in the pathogen population. Prepollination applications should begin at budbreak and continue on 2 week intervals. Cover sprays should continue season long on 3 week intervals. Do not apply more than four sequential sprays of ICIA5504 in the alternating block spray program.  Do not make more than six (6) applications per acre per year. Do not apply within 45 days of harvest.
Tomatoes	Anthracnose ( <i>Colletotrichum coccodes</i> )	0.5-2.0 (0.025-0.10)	ICIA5504 should be applied on 7-21 day intervals. No more than four sequential applications of ICIA5504 should be made before alternating with fungicides that have a different mode of action. Do not alternate or tank mix with fungicides to which resistance has developed in the pathogen population.
	Early Blight ( <i>Alternaria solani</i> )		
	Septoria Leafspot ( <i>Septoria lycopersici</i> )	1.0-2.0 (0.05 - 0.10)	Late Blight: ICIA5504 should be applied at 5-10 day intervals. No more than two sequential applications of ICIA5504 should be made before alternating with fungicides that have a different mode of action. Do not alternate or tank mix with fungicides to which resistance has developed in the pathogen population.  Do not make more than eight (8) applications on tomatoes per acre per year for all diseases. Do not apply within 1 day of harvest.
	Late Blight ( <i>Phytophthora infestans</i> )		

ICIA5504 80WG Rate Conversion Chart

Ounces Product/A	Lb a/A	Treated Acres/Lb Product
0.5	0.25	32
1.0	0.05	16
1.5	0.075	10.6
2.0	0.1	8.0
2.5	0.13	6.4
3.0	0.15	5.3
3.5	0.18	4.6
4.0	0.2	4.0
4.5	0.23	3.6
5.0	0.25	3.2
5.5	0.28	3.0
6.0	0.3	2.7
6.5	0.325	2.5
7.0	0.35	2.3
7.5	0.38	2.1
8.0	0.4	2.0

#### **TURF:**

ICIA5504 80WG fungicide is recommended for control of brown patch, Pythium blight (including metalaxyl resistant populations), anthracnose, melting out, leafspot, necrotic ring spot, red thread, summer patch, gray snow mold (Typhula blight), pink snow mold, gray leaf spot, spring dead spot, zoysia patch, Fusarium patch and take-all patch on golf courses and commercial turf farms.

Integrated Pest (Disease) Management: Sound turf management resulting in healthy, vigorous turf is the foundation of a good IPM program. Cultural practices such as proper choice of turf variety, nutrient management, proper cutting height, thatch management, and proper watering, drainage, and moisture stress management should be integrated with the use of fungicides to increase turf vigor and reduce the susceptibility to disease. Immunoassay detection kits and extension service diagnostic services can assist in the early and accurate identification of causal organisms and corresponding selection of the proper fungicide when required.

Resistance Management: Some turf disease pathogens are known to have developed resistance to products used repeatedly for their control. ICIA5504 should be applied in a tank mix or alternation program with other registered fungicides that have a different mode of action and to which pathogen resistance has not developed. Do not apply more than two sequential ICIA5504 applications for Pythium spp. control. Do not apply more than four sequential applications of ICIA5504 for all other diseases.

Application Directions: Mix ICIA5504 80WG with the required amount of water and apply as a dilute spray application in 2-4 gallons of water per 1000 square feet (87-174 gallons per acre). Repeat applications at specified intervals for as long as required. Use the shorter specified application interval and/or use the higher specified rate when prolonged favorable disease

conditions exist. For spot treatments, use 0.125 oz ICIA5504 80WG per 1 to 2 gallons of water. Do not apply more than 6.25 lbs product/acre/year (2.3 oz product/1000 square feet/year).

**Dollar Spot:** ICIA5504 does not control dollar spot. ICIA5504 is compatible in tank mixes with many other fungicides that control dollar spot. Always tank mix ICIA5504 with another fungicide that controls dollar spot when this disease is present. Follow directions under TANK MIXES/COMPATIBILITY above.

#### DIRECTIONS FOR APPLICATION FOR TURF DISEASES

Target Diseases	Use Rate (oz product per 1000 sq ft)	Application Interval (days)	Remarks*
Anthrachnose ( <i>Colletotrichum graminicola</i> )	0.125-0.25	14-28	Apply when conditions are favorable for disease development.
Brown Patch, Rhizoctonia Large Patch ( <i>Rhizoctonia solani</i> )	0.125-0.25	14-28	Apply when conditions are favorable for disease development.
Cool Weather Brown Patch or Yellow Patch ( <i>Rhizoctonia cerealis</i> )	0.125-0.25	14-28	Apply one or two applications in late fall before snow cover. Do not apply on top of snow.
Fusarium Patch ( <i>Microdochium nivale</i> )	0.125-0.25	14-28	Apply when conditions are favorable for disease development.
Gray Leaf Spot ( <i>Pyricularia grisea</i> )	0.125-0.25	14-28	Apply when conditions are favorable for disease development.
Melting Out or Leafspot ( <i>Drechslera</i> spp.) or ( <i>Bipolaris</i> spp.)	0.125-0.25	14-28	Apply when conditions are favorable for disease development.
Necrotic Ring Spot ( <i>Leptosphaeria korrae</i> )	0.125-0.25	14-28	Apply when conditions are favorable for disease development.
Pythium Blight Pythium Root Rot ( <i>Pythium</i> spp.)	0.125-0.25	10-14	Begin applications before disease is present. During periods of prolonged favorable conditions, treat on the 10 day application interval. For use on newly seeded as well as established turf.
Red Thread ( <i>Laetisaria fuciformis</i> )	0.125-0.25	14-28	Apply when conditions are favorable for disease development.
Snow Mold Gray—( <i>Typhula</i> spp.)  Pink—( <i>Microdochium nivale</i> )	0.125-0.25	14-28	Apply 2 applications spaced 14-28 days apart or a single application if applied in a tank mix. Apply in late fall before snow cover. Do not apply on top of snow.
Spring Dead Spot ( <i>Leptosphaeria korrae</i> ) or ( <i>Gaeumannomyces graminis</i> )	0.125-0.25	14-28	Apply when conditions are favorable for disease development.
Summer Patch ( <i>Magnaporthe poae</i> )	0.125-0.25	14-28	Apply when conditions are favorable for disease development.
Take-all patch ( <i>Gaeumannomyces graminis</i> )	0.125-0.25	14-28	Make two applications, 14-28 days apart in the spring and two applications 14-28 days apart in the fall.
Zoysia Patch ( <i>Rhizoctonia solani</i> ) or ( <i>Gaeumannomyces crustans</i> )	0.125-0.25	14-28	Apply one or two applications in late fall before snow cover. Do not apply on top of snow. Apply when conditions are favorable for disease development.

\* Do not apply more than two sequential applications of ICIA5504 80WG for control of *Pythium* spp. For all other diseases, do not apply more than four sequential applications of ICIA5504 80WG.

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**ICIA5504 80WG Rate Conversion Chart for Turf**

Ounces Product Per 1000 Sq. Ft	Ounces A.I. Per 1000 Sq. Ft	Ounces Product Per Acre	Pounds Product Per Acre
0.125	0.10	5.4	0.34
0.150	0.12	6.5	0.41
0.175	0.14	7.6	0.48
0.20	0.16	8.7	0.54
0.225	0.18	9.8	0.61
0.25	0.20	10.9	0.68

**Amount of ICIA5504 80WG to Mix 100 Gallons for Turf Applications**

ICIA5504 80 WG Use Rate	Spray Volume (gallons/1000 square feet)		
	2.0 gals	3.0 gals	4.0 gals
0.125 oz	6.3 oz	4.2 oz	3.1 oz
0.150 oz	7.5 oz	5.0 oz	3.8 oz
0.175 oz	8.8 oz	5.8 oz	4.4 oz
0.20 oz	10.0 oz	6.7 oz	5.0 oz
0.225 oz	11.3 oz	7.5 oz	5.6 oz
0.25 oz	12.5 oz	8.3 oz	6.3 oz