264-1051



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

01/11/2011

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

JAN 1 1 2011

NameLarry HodgesCompanyBayer CropScienceAddressP.O. Box 120142 T.W. Alexander DriveResearch Triangle Park, N.C. 27709

NOTIFICATION JAN 1 1 2011

Subject: Notification: Minor label additions/corrections Addition of pests and other minor changes BYI 8330 150 OD Insecticide EPA Registration Number 264-1051

Dear Mr. Hodges:

The Agency is in receipt of your Application dated December 6, 2010 for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the product BYI 8330 150 OD Insecticide. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-308-8291.

Sincerely,

Rita Kumer

Rita Kumar Senior Regulatory Specialist Insectide-Rodenticide Branch Registration Division (7505P) Office of Pesticide Programs E-mail: kumar.rita@epa.gov

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Please read instructions on I	everse hefore comple	ting form		Form	Annrover		2070.000	30. Approval expires 2-28-9
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4. Company/Product (Name) BYI 8330 150 OD Inse			Pi	A#				
5. Name and Address of App Bayer CropScience L 2 T. W. Alexander Dri Research Triangle Pa	P ve	ide)	(b to		ct is sim			FIFRA Section 3(c)(3) omposition and labeling ICATION
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Notification - Explain Explanation: Use addition Notification, per PR Notice 98 attached letter dated Decemt	onse to Agency letter below. al page(s) if necessar 3-10, of minor wording of ber 6, 2010 for a detaile 52.46, and no other cha C. Sec. 1001 to willfully	y. (For section corrections/clari d explanation c anges have bee / make any fals	fications to the of the changes on made to the e statement to	Agency "Me Too "Me Too Other - (n II.) e label and to ac . This notificati labeling or the EPA. I further	latter dat p" Applica Explain be ld insects on is cons confidenti understan	ation. alow. controlled an sistent with th al statement od that if this i	nd suppress e provisior of formula notification	ns of PR Notice 98-10 and of this product. I understand is not consistent with the
sections 12 and 14 of FIFRA.		······································	Sectio					
1. Material This Product Will	Be Packaged In:							
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1. Contact Point <i>(Complete</i>	items directly below f	or identificatio	n of individua	l to be contact	ed, if nec	essary, to pi	rocess this	application.)
Name Larry R. Hodges			Title Registratior	Product Man	ager - Ins	secticides	Telephor 919-549-	e No. (Include Area Code) 2870
l certify that the state I acknowledge that an both under applicable I	y knowlinglly false or		all attachmer					6. Cete Application Received
2. Signature Ley	R. Hodges		3. Title Registration	Manager - Insec	ticides			ι αιτι ε ε ι
4. Typed Name Larry R. Hodges		!	5. Date	December	⁻ 6, 20 ⁻		00000 0000 00000 00000	ς ς υς το

Bayer CropScience



Bayer CropScience -2-T-W--Alexander Drive P. O. Box 12014 Research Triangle Park, NC 27709 Tel: 919 549-2000

EPA Correspondence No. 10-23S December 6, 2010

Document Processing Desk (NOTIF) Office of Pesticide Programs (7504C) U.S. Environmental Protection Agency Room S-4900, One Potomac Yard 2777 South Crystal Drive Arlington, Virginia 22202-4501

NOTIFICATION JAN 1 2011

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Re: BYI 8330 150 OD Insecticide (EPA Reg. No. 264-1051): Amendment by Notification (per PR Notice 98-10) to Correct and/or Clarify Label Wording and to Add Insects Controlled and Suppressed to the Label

To Whom It May Concern:

Enclosed you will find Bayer CropScience's application for an amendment by notification and the revised label for BYI 8330 150 OD Insecticide (EPA Reg. No. 264-1051). The specific corrections/clarifications to the label are as follows:

<u>Page 4</u>, under Application Information, first paragraph, first sentence -- "insect" has been changed to "target pest".

<u>Page 4</u>, under Application Information, first paragraph, second sentence -- "insects" has been changed to "target pests, such as aphids and whiteflies".

<u>Page 4</u>, under Application Information, third paragraph, second sentence -- "all plant tissues including" has been deleted and "root growth" has been changed to "root tissues".

<u>Page 7</u>, we have added the following precautionary wording to the Notes and Restrictions statement for citrus fruits, "Do not apply non-ionic surfactants in tank mix combination with BYI 8330 150 OD on white grapefruit."

<u>Pages 8 and 9</u>, in the Notes and Restrictions statement for pome fruits, stone fruits and tree nuts, we have clarified the wording for timing of the spray application because the original wording has caused some confusion in the field. We changed the wording from, "... apply no earlier than petal fall ..." to "... apply immediately after petal fall ..."

Additionally, under the Crop Use Directions section of the label, we have added insects controlled and suppressed to citrus fruits (CG 10), small fruit vine climbing subgroup (CSG 13_{CCCC} 07F), pome fruits (CG 11), stone fruits (CG 12), tree nuts (CG 14), leafy vegetables (CG 4), and brassica leafy vegetables (CG 5).

"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 s

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In support of this action, you will find the following:

- EPA Form 8570-1. Application for Pesticide Amendment, dated December 6, 2010.
- One copy of the amended label, dated December 6, 2010.
- One copy of the amended label, dated December 6, 2010 with the changes highlighted in yellow.

Please email me at <u>larry.hodges@bayercropscience.com</u> or phone me at (919) 549-2870 if you have any questions regarding this submission.

Sincerely,

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Ray R. Hodges

Larry R. Hodges, Ph.D. Registration Manager, Insecticides

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INSECTICIDE

NOTIFICATION

JAN 1 1 2011

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BYI 8330 150 OD Insecticide

For Agricultural Use Only: For control of listed insects on citrus, grapes, pome fruit, stone fruit, tree nuts, hops, Christmas tree plantations, vegetables and potato.

ACTIVE INGREDIENT:

spirotetramat: cis-3-(2,5-dimethlyphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-en-4-yl-ethyl carbonate	15.3%	
INERT INGREDIENTS:	<u>84.7%</u>	
BYI 8330 150 OD contains 1.25 pounds of spirotetramat per US gallon, or 150 grams per liter.	100.0%	

EPA Reg. No. 264-1051

EPA Est. No.

STOP - Read the label before use KEEP OUT OF REACH OF CHILDREN WARNING

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

For MEDICAL and TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577

For <u>PRODUCT USE</u> Information Call 1-866-99BAYER (1-866-992-2937)

FIRST AID

IF IN EYES:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing.	
	Call a poison control center or doctor for treatment advice.	
IF ON SKIN OR CLOTHING:	Take off contaminated clothing.	
	Rinse skin immediately with plenty of water for 15 to 20 minutes.	
	Call a poison control center or doctor for treatment advice.	
IF INHALED:	Move person to fresh air.	
	• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth- to-mouth if possible.	
	Call a poison control center or doctor for further treatment advice.	
IF SWALLOWED:	Call a poison control center or doctor immediately for treatment advice.	
	Have person sip a glass of water if able to swallow.	
	Do not induce vomiting unless told to do so by a poison control center or doctor.	
	Do not give anything by mouth to an unconscious person.	
	rgency call toll free the Bayer CropScience Emergency Response Telephone No. 1-800-334-7577. t container or label with you when calling a poison control center or doctor, or going for treatment.	
Note To Physician: No speci	fic antidote is available. Treat patient symptomatically.	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING

Causes substantial but temporary eye injury. Harmful if swallowed, inhaled, or absorbed through skin. De not get in eyes or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco. Remove and wash contaminated clothing before. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Protective eyewear

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- Chemical-resistant gloves (e.g., neoprene)
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS STATEMENT

When handlers use closed systems, or enclosed cabs 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.

Users should:

User Safety Recommendations

- 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 Personal Protective Equipment immediately after handling this product.
- · Wash the outside of gloves before removing.
- · As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

For Terrestrial Use: This pesticide is toxic to aquatic invertebrates and oysters. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. This product may contaminate water through drift of spray in wind. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

This chemical has 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.

This product is potentially toxic to honey bee larvae through residues in pollen and nectar, but not to adult honey bees. Exposure of adult bees to direct treatment or residues on blooming crops can lead to effects on honey bee larvae. See the "Directions for Use" section of this label for specific crop application instructions that minimize risk to honey bee larvae.

Spray Drift Reduction Management

Do not apply when wind speed favors drift beyond the area intended for treatment. The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator is responsible for considering all of these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator.

Importance of Droplet Size: An important factor influencing drift is droplet size. Select nozzles and pressure that deliver medium spray droplets as indicated in nozzle manufacturer's catalogs and in accordance with ASAE Standard S-572. Nozzles that deliver coarse spray droplets may be used to reduce spray drift provided spray volume per acre (GPA) is increased to maintain crop coverage. For aerial application, spray should be released at the lowest possible height consistent with good pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided. Low humidity and high temperature increase the evaporation rate of spray droplets and therefore the likelihood of spray drift to aquatic areas. Avoid spraying during conditions of low humidity and/or high temperature.

Wind Speed Restrictions: Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size, canopy and equipment specifications determine drift potential at any given wind speed. Do not apply when winds are greater than 15 mph and avoid gusty and windless conditions. Avoiding applications when wind direction is toward an aquatic area can reduce risk exposure to sensitive aquatic areas.

Restrictions During Temperature Inversions: Do not make aerial or ground applications during temperature inversions. Drift potential is high during temperature inversions. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog. However, if fog is not present, the movement of smoke from a ground source can also identify inversions. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Airblast (Air Assist) Specific Recommendations: Airblast sprayers carry droplets into the canopy of trees/vines via a radial, or lateral directed air stream. The following drift management practices should be followed:

- Adjust deflectors and aiming devices so that spray is only directed into the canopy;
- · Block off upward pointed nozzles when there is no overhanging canopy;

- Use enough air volume to penetrate the canopy and provide good coverage;
- Do not allow the spray to go beyond the edge of the cultivated area (i.e., turn off sprayer when turning at end rows);
- For applications to the outside rows, only spray inward, toward the orchard/grove.

RUNOFF MANAGEMENT

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

ENDANGERED SPECIES ADVISORY

The use of any pesticide in a manner that may kill or otherwise harm endangered species or adversely modify their habitat is a violation \checkmark of Federal law.

INSECT RESISTANCE STATEMENT

Some insects are known to develop resistance to insecticides after repeated use. As with any insecticide, the use of this product should conform to resistance management strategies established for the use area. BYI 8330 150 OD contains an active ingredient with a mode of action classified as a Group 23 insecticide – lipid biosynthesis inhibitor (LBI). Studies to determine cross-resistance of Group 23 insecticides with other chemical classes have demonstrated no cross-resistance. Bayer CropScience strongly encourages that BYI 8330 150 OD, applied alone or in tankmix combination with another Group 23 product, be applied in a block rotation or windowed approach with products from other chemical classes having a different mode of action before using additional applications of Group 23 insecticides against the same target pest. Using a block rotation or windowed approach, along with other IPM practices, is considered an effective use strategy for preventing or delaying an insect pest's ability to develop resistance to a given class of chemistry.

Contact your local extension specialist, certified crop advisor and/or Bayer CropScience representative for additional resistance management or IPM recommendations. Also, for more information on Insect Resistance Management (IRM), visit the Insecticide Resistance Action Committee (IRAC) on the web at <u>http://irac-online.org</u>.

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 (REI). 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 REI of 24 hours following application.

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:

- Long-sleeved shirt and long pants
- Protective eyewear
- Chemical-resistant gloves (e.g., neoprene)
- Shoes plus socks

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: BYI 8330 150 OD is packaged in poly-ethylene containers. Do not allow product or containers to freeze. Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle-and-open-container-in-a-manner-as-to-prevent-spillage.--If-container-is-leaking, invert-to-prevent-leakage.--If-the-container-isleaking or material is spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away. You may contact the Bayer CropScience Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer CropScience Emergency Response Telephone No. is (800) 334-7577, or contact Chemtrec at (800) 424-9300.

Pesticide Disposal: Pesticide wastes are toxic. 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 at the nearest EPA Regional Office for guidance.

Container Disposal: Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

APPLICATION INFORMATION

BYI 8330 150 OD Insecticide is an oil dispersion formulation and is active primarily by ingestion against immature target pest life stages. In addition, fertility of adult female target pests, such as aphids and whiteflies, may be reduced. BYI 8330 150 OD can be applied by air, ground equipment or through chemigation as a preventative treatment or timed to coincide with an early threshold level in developing insect populations.

BYI 8330 150 OD must be tank-mixed with a spray adjuvant / additive having spreading and penetrating properties to maximize leaf uptake and systemicity of the active ingredient within treated plants; please contact your local Bayer CropScience representative or PCA for specific recommendations by crop. However, the use of Induce[®] adjuvant in combination with BYI 8330 150 OD on grape, pome fruits and stone fruits is prohibited when fruit is present due to adverse plant compatibility on harvested commodities.

Sufficient leaf tissue must be present for uptake and translocation of this product; due to this requirement, do not apply prior to petal-fall on pome fruits, stone fruits, and tree nut crops. Following application to plant foliage, BYI 8330 150 OD is fully systemic, moving through phloern and xylem to new shoot, leaf and root tissues; systemicity and efficacy may be hindered during periods of cold temperatures, under drought conditions, or when plants are not actively growing.

It is widely known that tankmixtures and/or sequential treatments of horticultural spray oil with Captan and/or sulfur may cause adverse plant compatibility in tree and vine crops; including BYI 8330 150 OD in this tankmix and/or sequential treatment scenario is not recommended.

Use in enclosed structures, such as greenhouses or planthouses, is not permitted.

APPLICATION INSTRUCTIONS

Foliar Spray Applications

Foliar applications must be made using properly calibrated ground sprayers, fixed- or rotary-winged aircraft or through properly designed, sprinkler-type, chemigation equipment (See Chemigation Application directions below). Sufficient spray volume, based on the size and density of the treated crop, must be utilized that allows for good coverage of both young and old foliage without runoff or collection of spray solution on leaf margins, fruit, or other plant tissues. Good coverage will help ensure maximum uptake by leaf surfaces and optimum systemicity within the plant.

Ground applications should be made in a minimum of 15 gallons of water per acre.

Aerial applications should be made in a minimum of **10 gallons of water per acre in tree and vine crops, and 5 gallons of water per acre in vegetable and potato crops**. The higher dosage of BYI 8330 150 OD within the crop/pest-specific section may be necessary for optimum control for aerial applications.

Chemigation applications (See Chemigation Application directions below) should be made as concentrated as possible. For best results apply at 100% input/travel speed, for center pivots or 0.1 inch (2,716 gallons) up to 0.15 inch (4,073 gallons) of water/A, for other systems. The higher dosage of BYI 8330 150 OD within the crop-specific/pest section may be necessary for optimum control for chemigation applications.

Chemigation Application (Vegetable and Potato Crops only)

Types of Irrigation Systems: BYI 8330 150 OD may be applied through sprinkler type irrigation systems only. These types include: center pivot, lateral move, side roll, or overhead solid set irrigation systems. Do not apply BYI 8330 150 OD through any other type of irrigation system.

Uniform Water Distribution and System Calibration: The irrigation system must provide uniform distribution of BYI 8330 150 OD treated water. Crop injury, lack of effectiveness, or illegal pesticide residues in or on the crop can result from non-uniform distribution. The system must be calibrated to uniformly distribute the rates specified for chemigation application to specific crops. If you have questions about calibration, contact your Cooperative Extension Service agent, equipment manufacturers, or other experts.

Chemigation Monitoring: A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Required Injection and Sprinkler System Safety Devices: The system must contain a functional check valve, vacuum relief valve, and lowpressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor/engine stops; or in cases where there is no water pump, when water pressure decreases to the point where pesticide distribution is adversely affected. Injection systems must use a metering pump or equivalent, such as a positive displacement injection pump (e.g., diaphragm pump, venture injection) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Using Water from Public Water Systems: Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regular serves an average of at least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Cleaning the Chemical Injection System: In order to apply pesticides accurately, the chemical injection system must be kept clean, free of chemical or fertilizer residues and sediments. Refer to your owner's manual or ask your equipment supplier for the cleaning procedure for your injection system.

Flushing the Irrigation System: At the end of the application period, allow time for all lines to flush the pesticide through all nozzles or emitters before turning off irrigation water. To ensure the lines are flushed and free of pesticides, a dye indicator may be injected into the lines to mark the end of the application period.

Center-Pivot and Automatic-Move Linear Systems: Inject the specified dosage per acre continuously for one complete revolution (center pivot) or move of the system. The system should be run at maximum speed. It is recommended that nozzles in the immediate area of control panels, chemical supply tanks, pumps and system safety devices be plugged to prevent chemical contamination of these areas. The use of END GUNS is NOT RECOMMENDED. End guns that provide uneven distribution of treated water can result in lack of effectiveness or illegal pesticide residues in or on the crop.

Solid Set and Manually Controlled Linear Systems: Injection should be during the last 30 to 60 minutes of regular irrigation period or as a separate 30 to 60 minute applications not associated with a regular irrigation.

MIXING INSTRUCTIONS

BYI 8330 150 OD is subject to phase separation during storage. Vigorous shaking to re-suspend the product is required before using.

COMPATIBILITY / MIXING / ORDER-OF-MIXING

Observe all cautions and limitations on labeling of all products used in mixtures.

BYI 8330 150 OD is physically and biologically compatible with many registered pesticides and fertilizers or micronutrients. However, it is known that many components, including crop protection products, fertilizers, micronutrients, and spray adjuvants, may be present in a tankmix combination that creates very unique and adverse chemical reactions, resulting in high risk circumstances. It is impossible to determine physical, biological, and plant compatibility for all scenarios that may be encountered and because of this reason, it is recommended that potential users determine the chemical, physical, biological and plant compatibility of such mixes prior to applications on a broad commercial scale.

When considering mixing BYI 8330 150 OD with other pesticides, or other additives, first contact your supplier for advice. For further information, contact your local Bayer representative. If your supplier and Bayer representative have no experience with the combination you are considering, you should conduct a test to determine physical compatibility. To determine physical compatibility, add the recommended proportions of each chemical with the same proportion of water, as will be present in the chemical supply tank, into a

suitable container, mix thoroughly and allow to stand for five minutes. If the combination remains mixed, or can be readily re-mixed, the mixture is considered physically compatible.

The proper mixing procedure for BYI 8330 150 OD alone or in tank mix combinations with other pesticides is:

- 1) Fill the spray tank 1/4 to 1/3 full with clean water;
- While recirculating and with the agitator running, add any products in Polyvinyl acetate (PVA) bags (See Note). Allow time for thorough mixing;
 Continue to fill operative to fill opera
- 3) Continue to fill spray tank with water until 1/2 full;
- 4) Add any other wettable powder (WP) or wettable granules (WG) products;
- 5) Add the required amount of BYI 8330 150 OD, and any other "flowable" (FL or SC) type products;
- 6) Allow enough time for thorough mixing of each product added to tank;
- 7) If applicable, add any remaining tank mix components: emulsifiable concentrates (EC), fertilizers, micronutrients, spray adjuvants.
- 8) Fill spray tank to desired level and maintain constant agitation to ensure uniformity of spray mixture.

NOTE: Do not use PVA packets in a tank mix with products that contain boron or release free chlorine. The resultant reaction of PVA and boron or free chlorine is a plastic that is not soluble in water or solvents.

CROP ROTATION STATEMENT

Do not plant or replant any crop not listed on this label within 30 days after the last application.

TREE AND VINE CROPS

CROP USE DIRECTIONS

Apply specified dosage of BYI 8330 150 OD early in the infestation as the population begins to develop or at early threshold for the target insect pest. Preventative applications are permitted where required for management of specific insect problems but generally require the higher_dosage_specified_within_the_crop_specific_sections_for_optimal_residual_control. Degree_of_efficacy_against_labeled_____ pests will be determined, in part, by the stage of pest development at application and infestation level of those pests.

BYI 8330 150 OD may be tank-mixed with a spray adjuvant / additive having spreading and penetrating properties to maximize leaf uptake and systemicity of the active ingredient within treated plants; please contact your local Bayer CropScience representative or PCA for specific recommendations by crop. However, the use of Induce[®] adjuvant in combination with BYI 8330 150 OD on grape, pome fruits and stone fruits is prohibited when fruit is present due to adverse plant compatibility on harvested commodities. Sufficient leaf tissue must be present for uptake and translocation of this product; due to this requirement, do not apply prior to petal-fall on pome fruits, stone fruits, and tree nut crops.

It is widely known that tankmixtures and/or sequential treatments of horticultural spray oil with Captan and/or sulfur may cause adverse plant compatibility in tree and vine crops; including BYI 8330 150 OD in this tankmix and/or sequential treatment scenario is not recommended.

Application rates within this label are based on full-size mature trees and vines. Higher rates should be used for moderate to heavy insect pressure or where longer residual control is desired. Minimum application volumes of water: 50 GPA for conventional ground airblast sprayer, 30 GPA for high air velocity, low volume or air curtain sprayers, 10 GPA for aerial application.

CITRUS FRUITS

Crops of Crop Group 10 including: Calamondin, Citrus citron, Citrus hybrids (*Citrus spp.*, includes chironja, tangelo and tangor), Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Orange (sweet and sour), Pummelo, and Satsuma mandarin.

	Rate
PESTS CONTROLLED	fluid ounces/Acre
Aphids	
Asian citrus psyllid	
California red scale	
Citrus leafminer	
Citrus snow scale	
Citrus thrips	
Florida red scale	
Mealybugs	12.0 16.0
Purple scale	
Whiteflies	
PESTS SUPPRESSED	
Black scale	
Brown scale	
Citricola scale	
Cottony cushion scale	
Notes and Restrictions	
Pre-Harvest Interval (PHI): 1 day.	
Minimum interval between applications: 21 days.	
Maximum BYI 8330 150 OD allowed per crop season: 32 fluid oun	ces/Acre (0.32 lb ai/A).
Do not apply this product within 10 days prior to bloom, during bloor	
Do not apply non-ionic surfactants in tank mix combination with BYI	8330 150 OD on white grapefruit.

SMALL FRUIT VINE CLIMBING SUBGROUP (Except Fuzzy Kiwifruit)

Crops of Crop Subgroup 13-07F Including: Amur river grape, Gooseberry, Grape, Kiwifruit (hardy), Maypop, Schisandra berry

PESTS CONTROLLED	Rate fluid ounces/Acre	
- Mealybugs		
Phylloxera		
Whiteflies		//
PESTS SUPPRESSED	8.0 12.0	
European fruit lecanium scale		
Nematodes		
Notes and Restrictions		7
Pre-Harvest Interval (PHI): 7 days.		
Minimum interval between applications: 30 days.		
Maximum BYI 8330 150 OD allowed per crop season: 20 fluid ounc	es/Acre (0.2) Ib ai/A.	
Some adjuvants that may be used with BYI 8330 150 OD have caus alone or in mixes after the initiation of bloom. Testing has shown tha when used in combination with such adjuvants; however, not all adju spreading-penetrating adjuvant be used at a rate that is known to be	at BYI 8330 150 OD does not increase the potential for damage wants have been tested. It is recommended that a high quality	-

POME FRUITS

Crops of Crop Group 11 Including: Apple, Crabapple, Loquat, Mayhaw, Pear, Oriental pear, Quince

PESTS CONTROLLED	Rate fluid ounces/Acre	
Aphids (including Wooly Apple Aphid)		
Mealybugs		
Pear psylla		
San Jose scale		
Whiteflies		-
PESTS SUPPRESSED	8.0 - 14.0	
Apple gall midge		
Codling moth		
Micro-lepidoptera leafminers		
Pear leaf midge		
White apple leafhopper		
Notes and Restrictions		
Pre-Harvest Interval (PHI): 7 days.		
Minimum interval between applications: 14 days.		
Maximum BYI 8330 150 OD allowed per crop season: 40 fluid out	nces/Acre (0.4 lb ai/A).	
Do not apply until after petal fall.		
For control of San Jose scale west of the Rocky Mountains [including followed by a second application 14 – 21 days later. For control of after petal fall; under heavy infestation pressure or where difficult of	San Jose scale east of the Rocky Mountains, apply immediately	

12/17

STONE FRUITS

Crops of Crop Group 12 Including: Apricot, Cherry (sweet and tart), Nectarine, Peach, Plum (includes Chickasaw, Damson, and Japanese); Plumcot; Prune (fresh)

PESTS CONTROLLED	Rate fluid ounces/Acre	
Aphids]
Mealybugs		
San Jose scale		
White peach scale		
Whiteflies		
PESTS SUPPRESSED	8.0 – 14.0	2
Black scale		
Cherry fruit fly		1.
European fruit lecanium scale		
Nematodes		
Notes and Restrictions		
Pre-Harvest Interval (PHI): 7 days.		
Minimum interval between applications: 14 days.	L.	
Maximum BYI 8330 150 OD allowed per crop season: 24 fluid oun	ces/Acre (0.24 lb ai/A).	
Do not apply until after petal fall.		1
For control of San Jose scale, apply immediately after petal fall; uncexist, a second application may be necessary.	ler heavy infestation pressure or where difficult control conditions	

TREE NUTS

Crops of Crop Group 14 Including: Almond, Beechnut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia nut (bush nut), Pecan, Walnut [black and English (Persian)]

PESTS CONTROLLED	Rate fluid ounces/Acre	
Aphids]
Mealybugs		
Phylloxera		
San Jose scale		10
Walnut scale		
Whiteflies	8.0 - 14.0	
PESTS SUPPRESSED		
European fruit lecanium scale		
Nematodes		
Olive scale		
Notes and Restrictions		
Pre-Harvest Interval (PHI): 7 days.		
Minimum interval between applications: 14 days.		
Maximum BYI 8330 150 OD allowed per crop season: 34 fluid ound	es/Acre (0.34 lb ai/A).	
Do not apply until after petal fall.		-
For control of San Jose scale, apply immediately after petal fall; und exist, a second application may be necessary.	er heavy infestation pressure or where difficult control conditions	

HOPS		
PEST CONTROLLED	Rate fluid ounces/Acre	
Hop aphid	8.0 - 10.0	
Notes and Restrictions		
Pre-Harvest Interval (PHI): 7 days.		
Minimum interval between applications: 14 days.		
Maximum BYI 8330 150 OD allowed per crop season: 20 fluid out	nces/Acre (0.2 lb ai/A).	

CHRISTMAS TREE PLANTATIONS

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PESTS CONTROLLED	Rate fluid ounces/Acre	
Aphids (including root aphids and Adelgids)	8.0 - 16.0	
Scales	8.0 - 18.0	
Notes and Restrictions		
Minimum interval between applications: 14 days.		
Maximum BYI 8330 150 OD allowed per season: 32 fluid ounces/Ac	re (0.32 lb ai/A).	

14/17

VEGETABLE AND POTATO CROPS

CROP USE DIRECTIONS

BYI 8330 150 OD must be tank-mixed with a spray adjuvant / additive having spreading and penetrating properties to maximize leaf uptake and systemicity of the active ingredient within treated plants; please contact your local Bayer CropScience representative or PCA for specific recommendations by crop.

Apply in adequate water for uniform coverage; minimum 15 GPA by ground and 5 GPA by aerial application. BYI 8330 150 OD may also be applied through overhead irrigation systems as designated in the CHEMIGATION statement in the *Application Instructions* section of this label. If needed, repeat application at a 7- to 10-day interval.

FRUITING VEGETABLES

Crops of Crop Group 8 Including: Eggplant, Groundcherry, Pepinos, Pepper (Capsicum spp., including Bell, Chili, Cooking, Pimento and Sweet), Tomatillo, Tomato

	Rate
PESTS CONTROLLED	fluid ounces/Acre
Aphids	
Psyllids	5.0 - 8.0
Whiteflies	
Notes and Restrictions	
Pre-Harvest Interval (PHI): 1 day.	
Minimum interval between applications: 7 days.	
Maximum BYI 8330 150 OD allowed per crop season: 16 fl	uid ounces/Acre (0.16 lb ai/A).

LEAFY VEGETABLES (Except Brassica Vegetables)

Crops of Crop Group 4 Including: Amaranth (leafy amaranth, Chinese spinach, tampala), Arugula (Roquette), Cardoon, Celery, Celtuce, Chervil, Chinese celery, Chrysanthemum (edible-leaved and garland), Corn salad, Cress (garden), Cress (upland, yellow rocket, winter cress), Dandelion, Dock (sorrel), Endive (escarole), Florence fennel (Finocchio), Lettuce (head and leaf), Orach, Parsley, Purslane (garden and winter), Radicchio (red chicory), Rhubarb, Spinach [including New Zealand and vine (Malabar spinach, Indian spinach)], Swiss chard

	Rate
PESTS CONTROLLED	fluid ounces/Acre
Aphids	
Whiteflies	
	5.0 - 8.0
PESTS SUPPRESSED	
Diamondback moth	
Notes and Restrictions	
Pre-Harvest Interval (PHI): 3 days.	
Minimum interval between applications: 7 days.	
Maximum BYI 8330 150 OD allowed per crop season: 16 fluid oun	ces/Acre (0.16 lb ai/A).

BRASSICA (COLE) LEAFY VEGETABLES

Crops of Crop Group 5 Including: Broccoli, Broccoli raab (*rapini*), Brussels sprouts, Cabbage, Cauliflower, Cavalo broccolo, Chinese broccoli (*gai lon*), Chinese cabbage (*bok choy*), Chinese cabbage (*napa*), Chinese mustard cabbage (*gai choy*), Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard spinach, Rape greens

	Rate	
PESTS CONTROLLED	fluid ounces/Acre	
Aphids		
Whiteflies		
PESTS SUPPRESSED	5.0 - 8.0	
Diamondback moth		
Swede midge		
Notes and Restrictions		
Pre-Harvest Interval (PHI): 1 day.		
Minimum interval between applications: 7 days.		
Maximum BYI 8330 150 OD allowed per crop season: 16 fluid out	nces/Acre (0.16 lb ai/A).	

POTATO and OTHER TUBEROUS AND CORM VEGETABLES

Crops of Crop Subgroup 1C Including: Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Canna (edible), Cassava (bitter and sweet), Chayote (root), Chufa, Dasheen (taro), Ginger, Leren, Potato, Sweetpotato, Tanier, Turmeric, Yam bean, Yam (true)

	Rate	
PESTS CONTROLLED	fluid ounces/Acre	
Aphids		
Psyllids	6.0 - 8.0	
Whiteflies		
Notes and Restrictions		
Pre-Harvest Interval (PHI): 7 days.		
Minimum interval between applications: 7 days .		
Maximum BYI 8330 150 OD allowed per crop season: 16 fluid ounces/Acre (0.16 lb ai/A).		

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

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NET CONTENTS: 1 GALLON OR 2.5 GALLONS

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