

100-828

11-5-2002

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SYNGENTA-REGULATORY AFFAIRS

#1771 P.003/014

United States

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number



Environmental Protection Agency

Washington, DC 20460

NOTIFICATION

Application for Pesticide - Section I

1. Company/Product Number 100-828	2. EPA Product Manager Mary Waller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Vanguard™ WG	PM# 21	
5. Name and Address of Applicant (Include ZIP Code) Syngenta Crop Protection, Inc. P. O. Box 18300 Greensboro, NC 27419 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated <u>January 31, 2002</u>
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

NOTIFICATION
NOV 5 - 2002

Explanation: Use additional page(s) if necessary. (For Section I and Section II.)
Syngenta Crop Protection, Inc., hereby submits two copies of Final Printed Labeling for Vanguard WG (EPA Reg. No. 100-828). We have added via notification suppression of Shot Hole and Green Fruit Rot to the almond section under Vanguard WG alone or in tank mixture.

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

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

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Larry Zang	Title Senior Regulatory Product Manager	Telephone No. (Include Area Code) 336.632.2146

Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		5. Date Application Received (Stamped)
2. Signature 	3. Title Senior Regulatory Product Manager	
4. Typed Name Larry Zang	5. Date October 3, 2002	

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete.

Vanguard™ WG**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof materials such as polyethylene or polyvinyl chloride
- 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 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, 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 wash water or rinsate.

Physical or Chemical Hazards

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

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.

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Vanguard™ WG**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
- Shoes plus socks

STORAGE AND DISPOSAL

Store in a cool, dry place.

Pesticide Disposal

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

Triple rinse container (or equivalent) then offer for recycling or reconditioning or puncture and dispose of container 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.

GENERAL INFORMATION

Vanguard WG is a broad spectrum fungicide which controls certain diseases in almonds, grapes, pome fruits, and stone fruits.

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

CAUTION: UNDER CONDITIONS CONDUCTIVE TO EXTENDED INFECTION PERIODS, ADDITIONAL FUNGICIDE APPLICATIONS BEYOND THE NUMBER ALLOWED BY THIS LABEL MAY BE NEEDED. UNDER THESE CONDITIONS, USE ANOTHER FUNGICIDE REGISTERED FOR THE CROP/DISEASE APPEARING ON THIS LABEL.

SPRAY EQUIPMENT

For best disease control apply Vanguard WG in sufficient water to provide thorough and uniform coverage. For ground application equipment, a minimum of 100 gals./A is recommended for orchard crops and 50 gals./A is recommended for vine crops.

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

For air assisted or air blast sprayers move spray droplets into the canopy using a forced air stream. The fan should be set up to deliver only enough air volume to penetrate the canopy and provide good coverage. Adjust deflectors or other aiming devices to direct spray only to the target area.

Equip sprayers with nozzles that provide accurate and uniform application. Check whirl plates and nozzle discs for wear and replace as necessary. Calibrate sprayer before use.

Use a pump with capacity to maintain the correct rated pressure for the nozzles selected. Maintain sufficient agitation to keep the spray mixture in suspension. Use a jet agitator, liquid sparge tube, or mechanical paddle for agitation. Do not air sparge.

Screens should be used to prevent nozzles from clogging. Screens placed after the tank and before the nozzles should be 50-mesh or coarser. Check nozzle manufacturer's recommendations.

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

Vanguard™ WG**MIXING PROCEDURES**

Prepare no more spray mixture than is needed for the immediate operation. Thoroughly clean spray equipment before using this product. 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. The spray solution should be buffered to a pH of 5.0-7.0 when tank mixed with Rovral® Fungicide.

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

Vanguard WG + Tank Mixtures: 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 Vanguard WG, 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 the mixture has been applied.

Note: When using Vanguard WG in tank mixtures, all products in water-soluble packaging should be added to the tank before any other tank mix partner, including Vanguard WG. 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 Vanguard WG in a tank mixture, observe all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations 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. Vanguard WG must 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.

Additives: Vanguard WG is compatible with most crop protection additives, however, Vanguard WG should not be used with X-77® for bloom sprays applied to stone fruits and almonds.

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Vanguard™ WG

CROP USE DIRECTIONS

Crop	Disease	Rate oz./Acre	Application Timing	Notes
Almonds	Brown Rot Blossom Blight (<i>Monilinia</i> spp.)	Vanguard WG alone or in tank mixture:	Begin applications at 5-10% bloom. If favorable conditions for disease persist, make additional applications at 50-100% bloom, and petal fall. Use the higher rate when disease conditions are severe.	Do not apply more than 30 oz. of Vanguard WG per acre per crop per year. Do not apply within 150 days of harvest.
	For Suppression of: Green Fruit Rot (Jacket Rot) (<i>Botrytis cinerea</i>) Shot Hole (<i>Wilsonomyces carpophilus</i>)	5-10		

For broad spectrum disease control, apply Vanguard WG in tank mixture with the recommended rate of another fungicide registered for use on almonds.

Pome Fruits: Apples, Crabapples, Pears (see specific pear restrictions in Application Timing)	Scab (<i>Venturia</i> spp.) Prebloom	Vanguard WG alone: 5	For apples and crabapples only (do not apply Vanguard WG alone to pears), begin application at green tip and continue on a 7 to 10-day interval. Under severe disease pressure use the shorter interval.	Do not apply more than 22 oz. of Vanguard WG per acre per crop per year.
		Vanguard WG tank mixtures: 3-5	For scab control (apples, crabapples, and pears) utilizing multiple modes of action, apply Vanguard WG in tank mixture with the recommended rate of a protectant or systemic fungicide registered on pome fruit, making applications on a 7 to 10-day interval.	Do not apply within 72 days of harvest.
	Scab (<i>Venturia</i> spp.) Pink, bloom, postbloom	Vanguard WG Tank mixtures: 3-5	Apply Vanguard WG in tank mix combination with the recommended rate of a protectant fungicide. Use of the recommended rate of an EBDC fungicide will broaden the disease control spectrum to include cedar apple rust. The addition of the recommended rate of sulfur or a sterol inhibitor (SI) fungicide to this tank mix will broaden the disease control spectrum to include powdery mildew.	

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Vanguard™ WG

Crop	Disease	Rate oz./Acre	Application Timing	Notes
Grapes	Botrytis Bunch Rot (<i>Botrytis</i> spp.)	Vanguard WG alone: 10	Begin applications of Vanguard WG at early bloom. Make an additional application at berry touch, veraison, or preharvest. Botrytis Bunch Rot is most effectively controlled by ground application, using sufficient water volume to provide thorough coverage. Thorough coverage of bunches is essential.	Do not apply more than 20 oz. of Vanguard WG per acre per crop per year. Do not apply within 7 days of harvest or on an interval shorter than 7 days.
	Powdery Mildew Suppression (<i>Uncinula necator</i>)	Vanguard WG tank mixtures: 5-10	Apply Vanguard WG in tank mixture with the recommended rate of another fungicide registered on grapes for control of Botrytis Bunch Rot.	When used at 10 oz./A, Vanguard WG will provide significant suppression (approximately 60% control) of powdery mildew.
Stone Fruits: Apricots, Tart cherries, Nectarines, Peaches, Plums, Prunes Do not apply Vanguard WG to sweet cherries.	Brown Rot Blossom Blight (<i>Monilinia</i> spp.)	Vanguard WG alone: 5	Begin applications at bloom stage (apricots at red bud, cherries at popcorn, peaches and nectarines at pink bud, plums and prunes at green tip). Make a second application at full bloom.	Do not apply more than 10 oz. of Vanguard WG per acre per year for blossom blight control.
		Vanguard WG tank mixtures: 5	Apply Vanguard WG in tank mixture with the recommended rate of another fungicide registered for stone fruit.	Do not apply Vanguard WG to sweet cherries.
	Fruit Brown Rot (<i>Monilinia</i> spp.) California only	Vanguard WG Alone: 10	Apply a maximum of 2 applications of Vanguard WG during the preharvest period up through 2 days prior to harvest as needed.	Do not apply more than 20 oz. of Vanguard WG per acre per year for fruit brown rot control.
		Vanguard WG tank mixtures: 5	Apply Vanguard WG in tank mixture with the recommended rate of another fungicide registered on stone fruit for control of fruit brown rot.	Do not apply within 2 days of harvest.

OBSERVE THE FOLLOWING PRECAUTIONS WHEN SPRAYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES, RESERVOIRS, RIVERS, PERMANENT STREAMS, MARSHES OR NATURAL PONDS, ESTUARIES, AND COMMERCIAL FISH PONDS.

- Do not apply within 75 ft. of bodies of water such as lakes, reservoirs, rivers, permanent streams, natural ponds, marshes or estuaries.
- For all plantings within 150 ft. of bodies of water as described above, spray crops from outside the planting away from the bodies of water.
- Shut off the sprayer when at row ends.
- Spray last three rows windward of aquatic areas using nozzles on one side only, with spray directed away from aquatic areas. Avoid spray going over the tops of trees by adjusting or turning off top nozzles. Shut off nozzles on the side away from the grove/orchard when spraying the outside row. Shut off nozzles when turning at ends of row or passing tree gaps in the rows.
- Do not cultivate within 10 ft. of aquatic areas as to allow a vegetative filter strip.
- Do not apply when weather conditions favor drift to aquatic areas. Do not apply when gusts or sustained winds exceed 10 mph.
- Do not apply during a temperature inversion. Mist or fog may indicate the presence of an inversion in humid areas.

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Vanguard™ WG

Vanguard™ and the Syngenta logo are trademarks of a Syngenta Group Company
U.S. Patent No. 5,153,200

Rovral® trademark of Aventis Crop Science

X-77® trademark of Loveland Industries, Inc.

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For non-emergency (e.g., current product information), call
Syngenta Crop Protection at 1-800-334-9481.

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

SCP 828A-L1J 0102
139024

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Vanguard™ WG



Fungicide

For control of certain diseases in
peaches, grapes, pome fruits, and
stone fruits

Active Ingredient:

Cyprothiazol 4-cydropyrid-5-methyl- N-phenyl-pyrimidinamine (CAS No. 121562-81-2).....	75.0%
Other Ingredients:	25.0%
Total:	100.0%

Vanguard WG is a water-dispersible granule.

EPA Reg. No. 100-428

EPA Est. 67545-A2-1

Vanguard™ and the Syngenta logo are
trademarks of a Syngenta Group Company
U.S. Patent No. 5,153,270

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

SCP 828A-1.1J 0102
139024

3 pounds
2 ounces

U.S. Standard Measure

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.

**KEEP OUT OF REACH
OF CHILDREN.
CAUTION**

Precautionary Statements
**Hazards to Humans and Domestic
Animals**

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

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 5 min-
utes, then continue rinsing eye. 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 15-20 minutes. Call a poison control
center or doctor for treatment advice.

NOTE TO PHYSICIAN: If ingested, induce eme-
sis or lavage stomach. Treat symptomatically.

Have the product container or label with you
when calling a poison control center or doctor,
or going for treatment.

NOT LIME NUMBER: For 24 Hour Medical
Emergency Assistance (Human or Animal) or
Chemical Emergency Assistance (Spill, Leak,
Fire, or Accident) Call 1-800-800-8372.

Environmental Hazards

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, to
drains where surface water is present, or in
nearby areas below the mean high water
mark. Do not contaminate water when
disposing of equipment wash water or rinsate.
Physical or Chemical Hazards
Do not use, pour, spill, or store near heat or
open flame.

For minor spills, leaks, etc., follow precautions
indicated on this label and clean up
immediately. Take special care to avoid contami-
nation of equipment and facilities during
cleanup procedures and disposal of wastes.

Storage

Store in a cool, dry place.

Container Disposal

Triple rinse container (or equivalent) then offer
for recycling or reconditioning or purchase and
dispose of container in a sanitary landfill, by
incineration, or if allowed by state and local
authorities, by burning, if burned, stay out of
smoke.

Chemigation

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

