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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DEC 7 1998

Dr. Lee Hubbard
Novartis Crop Protection, Inc.
P.O. Box 18300
Greensboro, NC 27419-8300

Subject: Request for label amendment dated October 14, 1998
EPA Reg. No. 100-828
Vanguard WG

Dear Dr. Hubbard,

The labeling for the product referred to above submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable provided the following correction is made. On page 6, the addition for Jacket Rot under "Disease" must be revised to read "Green Fruit Rot (Jacket Rot) Suppression (Botrytis cinerea)" and under "Notes" the comparable statement must be revised to read "When used ... control) of green fruit rot (jacket rot)".

A stamped copy of the label is enclosed for your records. Submit one copy of the final printed label before you release the product for shipment. If you have any questions, contact Dr. Tom Ellwanger at (703) 308-9352.

Sincerely

Mary J. Waller

Mary Waller
Product Manager (21)
Fungicide Branch
Registration Division (7505C)

CONCURRENCES

SYMBOL	7505C							
SURNAME	Ellwanger							
DATE	12/4/98							

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

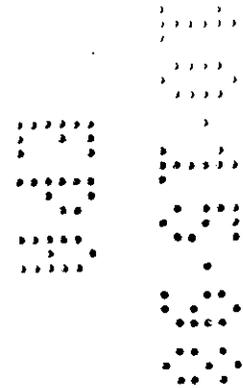
AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Waterproof gloves
- Shoes plus socks



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 CONDUCIVE 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.

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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USE DIRECTIONS FOR SPECIFIC CROPS

Crop	Disease	Rate oz./Acre	Application Timing	Notes
Almonds	Brown Rot Blossom Blight (<i>Monilinia</i> spp.) Jacket Rot Suppression (<i>Botrytis cinerea</i>)	Vanguard WG alone: 5-10	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.
		Vanguard WG tank mixtures: 5	For broad spectrum control apply Vanguard WG in tank mixture with the recommended rate of another fungicide registered for use on almonds.	When used at full bloom, Vanguard WG will provide significant suppression (approximately 60% control) of jacket rot.
	Pomefruits: 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™ alone to pears), begin application at green tip and continue on a 7-10 day interval. Under severe disease pressure use the shorter interval.
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 7-10 day interval.	
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.	

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 feet of bodies of water such as lakes, reservoirs, rivers, permanent streams, natural ponds, marshes or estuaries.
- For all plantings within 150 feet 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 feet 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.

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

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

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

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Environmental Hazards

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

Physical or Chemical Hazards

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

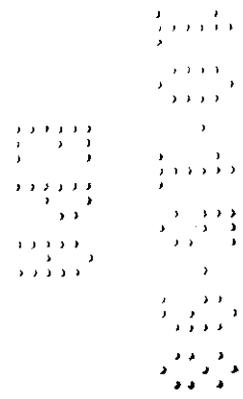
Vanguard™ trademark of Novartis
U.S. Patent No. 5,153,200

Rovral® trademark of Rhône-Poulenc Ag Company

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Novartis Crop Protection, Inc.
Greensboro, North Carolina 27419

Product ID. 53481



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Vangard™ WG

FUNGICIDE

For control of certain diseases in almonds, grapes, Pome Fruits and Stone Fruits.

Active Ingredient:

Cyprodinil: (4-cyclopropyl-6-methyl-N-phenyl-pyrimidinamine)

(CAS# 121552-61-2)..... 75%

Other Ingredients: 25%

Total: 100%

Made in Switzerland

Vangard WG is a water-dispersible granule.

See directions for use in attached booklet.

AGRICULTURAL USE REQUIREMENTS

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

EPA Reg. No. 100-828

EPA Est. 67545-AZ-1

Vangard™ trademark of Novartis

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

50 oz.

U.S. Standard Measure

NCP 828A-L1_ 101298

KEEP OUT OF REACH OF CHILDREN.

CAUTION

Precautionary Statements

Hazards to Humans and Domestic Animals

Causes eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing.

Statement of Practical Treatment

If in eyes: Flush eyes with water for 15 minutes and get medical attention if irritation persists.

If on skin: Wash with plenty of water. Get medical attention.

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

Environmental Hazards

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Storage

Store in a cool, dry place.

Chemigation

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