



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

APR 6 2010

Dr. Khalid Akkari
BASF Corporation
26 Davis Drive
P.O. Box 13528
Research Triangle Park, North Carolina 27709

Subject: Pristine® Fungicide
EPA Registration Number 7969-199
Decision D426502: Your supplemental label "For Ground
and Aerial Applications to Hops" dated and received on
January 8, 2010 (initially submitted as a Notifica-
tion; converted to an amendment application)..

Dear Dr. Akkari,

1. Incorporate, within 18 months of the date of this letter, an acceptable revised master label for the subject product that incorporates the additional crops and their specific use directions that are being added to the labeling of the subject product by the Agency's acceptance of this supplemental label.

2. Make the following changes to the label.

a. In the first sentence in the first paragraph of the "Directions For Use" section on the first page, change "...in a manner inconsistent with it labeling." to "...in a manner inconsistent with its labeling."

b. In the second sentence in the first paragraph of the "Directions For Use" section on the first page, change "...in a way that will contact workers or others persons..." to "...in a way that will contact workers or other persons..."

3. Submit one copy of your final printed label before you release product bearing this amended labeling for shipment.

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If you have any questions about this letter, please contact John Bazuin at (703)305-7381 or bazuin.john@epa.gov.

Sincerely yours,

Lisa Jones FOR

Shaja Joyner
Product Manager (20)
Fungicide Branch
Registration Division (7505P)

Attachment: Supplemental label stamped "ACCEPTED with COMMENTS"

3046



The Chemical Company

GROUP 7 11 FUNGICIDE



Supplemental Label

ACCEPTED
with COMMENTS
In EPA Letter Dated

APR 6 2010

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

7969-199

For Ground and Aerial Applications to Hops

EPA Reg. No. 7969-199

Active Ingredients:

pyraclostrobin: (carbamic acid, [2-[[[1-(4-chlorophenyl)-1H-pyrazol-3-yl]oxy]methyl]phenyl]methoxy-, methyl ester)	12.8%
boscalid: 3-pyridinecarboxamide, 2-chloro-N-(4'-chloro(1,1'-biphenyl)-2-yl)-	25.2%
Other Ingredients:	62.0%
Total:	100.0%

0.128 oz (0.008 lb) of pyraclostrobin in 1 oz of Pristine® fungicide
0.252 oz (0.0158 lb) of boscalid in 1 oz of Pristine

OBSERVE ALL FIRST AID, PRECAUTIONARY STATEMENTS, PERSONAL PROTECTIVE EQUIPMENT, AND MIXING AND APPLICATION INSTRUCTIONS ON THE Pristine MAIN CONTAINER LABEL BEFORE USING.

Environmental Hazards

Surface Water Advisory

This product may contaminate water through drift of spray in wind. This product has a potential for runoff for several months or more 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 application when rainfall is forecast to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

This pesticide is toxic to fish and aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

DO NOT apply directly to water, areas where surface water is present, or intertidal areas below the mean high water mark. **DO NOT** contaminate water when disposing of equipment washwaters or rinsate.

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.

Refer to the **Pristine** main container label, EPA Reg. No. 7969-199, for complete **Directions For Use** and all applicable restrictions and precautions. User must have the full **Pristine** container label and this supplemental label in possession at the time of pesticide application.

General Information

Pristine provides optimum disease control when applied in a regularly scheduled protective fungicide program and used in a spray program that rotates fungicides with different modes of action. Refer to the **Pristine** main container label for general resistance management information and to the **Pristine Hops Ground Application Use Directions** and **Pristine® fungicide Hops Aerial Application Use Directions** tables found in this label.

Application Instructions

Apply **Pristine® fungicide** according to the rate, timing, resistance management and other recommendations in the **Pristine Hops Ground Application Use Directions** and **Pristine® fungicide Hops Aerial Application Use Directions** tables.

Aerial Application

One aerial application can be made to a hops crop, but only in situations when ground application is not possible.

However, thorough spray coverage of the crop is required to obtain optimum disease control. Use no less than 10 gallons of spray solution per acre.

Because complete coverage is important for effective disease control, **aerial application at low volumes**

may result in reduced control due to lack of canopy penetration and coverage.

Restrictions and Limitations

Follow the restrictions and limitations outlined in **Table 1. Pristine Hops Ground Application Use Directions** and **Table 2. Pristine® fungicide Hops Aerial Application Use Directions**. **DO NOT** apply when wind speed favors drift beyond the area intended for treatment.

Avoid application under conditions when uniform coverage cannot be obtained or when spray drift may occur.

No aerial application in New York state except as permitted under FIFRA Section 24(c), Special Local Need Registration.

Table 1. Pristine Hops Ground Application Use Directions

Crop	Target Disease	Product Use Rate per Application	Maximum Number of Ground Applications per Season	Maximum Product Rate per Season	Minimum Time from Application to Harvest (PHI)
Hops (Ground Application)	Powdery mildew (<i>Erysiphe cichoracearum</i> , <i>Sphaerotheca</i> spp.) Downy mildew (<i>Pseudoperonospora humuli</i>)	14 ozs per 100 gallons of dilute spray DO NOT use more than 28 ozs per acre.	3 (2 if one aerial application is made)	84 ozs per acre (70 ozs per acre if one aerial application is made)	14 days

Application Directions. Begin applications of **Pristine** prior to disease development and continue on a 10- to 21-day interval.

Use the shorter interval when disease pressure is high.

Application rates are based on 100 gallons of dilute spray applied to runoff. Adjust water volume to maintain thorough coverage. Use 25 to 50 gallons of dilute spray per acre prior to trellising and 100 to 200 gallons of dilute spray per acre thereafter. **DO NOT** use more than 200 gallons per acre of this mixture. If additional spray volume is needed for thorough coverage, use 28 ozs of **Pristine** per acre in the required spray volume.

Resistance Management. To limit the potential for development of resistance, **DO NOT** make more than three (3) applications of **Pristine** per season (counting both ground and aerial applications). **DO NOT** make more than two (2) sequential applications of **Pristine** before alternating to a labeled fungicide with a different mode of action.

Restrictions. **DO NOT** use more than 200 gallons per acre of this mixture. If additional spray volume is needed for thorough coverage, use 28 ozs of **Pristine** per acre in the required spray volume.

Table 2. Pristine® fungicide Hops Aerial Application Use Directions

Crop	Target Disease	Aerial Product Use Rate per Application	Maximum Number of Aerial Applications per Season	Aerial Application Timing Growth Stage	Minimum Time from Aerial Application to Harvest (PHI)
Hops (Aerial Application)	Powdery mildew (<i>Erysiphe cichoracearum</i> , <i>Sphaerotheca humuli</i> , <i>Sphaerotheca macularis</i> , <i>Sphaerotheca</i> spp.)	14 ozs per acre as a tank mix with a myclobutanil fungicide product (see myclobutanil rate following)	1	Wire to 14 days preharvest	14 days

Application Directions. Aerial application may result in reduced control due to lack of canopy penetration and coverage. Aerial application should only be used in situations when ground application is not possible.

Apply a preventive spray of **Pristine** at 14 ozs as a tank mix with a myclobutanil fungicide product at rates equivalent to 0.15 lb per acre of active ingredient (including but not limited to: **Rally* 40W fungicide** at 6 ozs product per acre or **Sonoma™ 40WSP fungicide** at 6 ozs product per acre) for resistance management.

Avoid applications under conditions when uniform coverage cannot be obtained or when spray drift may occur. Use a minimum of 10 gallons of water per acre when applying by air. Thorough coverage is essential.

Because complete coverage is important for effective disease control, **aerial application at low volumes may result in reduced control due to lack of canopy penetration and coverage.**

Mixing **Pristine** with surfactants or foliar fertilizers is not recommended when applying by air. Similarly, adjuvants that enhance pesticide penetration may cause phytotoxicity when used with **Pristine** applied by air.

Resistance Management. To limit the potential for development of resistance, **DO NOT** make more than one (1) aerial application of **Pristine** per season and include a myclobutanil product as a tank mix as described in this table.

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Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, 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 weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

To the extent consistent with applicable law, BASF makes no other express or implied warranty of fitness or merchantability or any other express or implied warranty.

To the extent consistent with applicable law, Buyer's exclusive remedy and BASF's exclusive liability, whether in contract, tort, negligence, strict liability, or otherwise, shall be limited to repayment of the purchase price of the product.

To the extent consistent with applicable law, BASF and the Seller disclaim any liability for consequential, special or indirect damages resulting from the use or handling of this product.

BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

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***Pristine** is a registered trademark of BASF.*

***Rally** is a trademark of Dow AgroSciences LLC.*

***Sonoma** is a trademark of Albaugh, Inc.*

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The Chemical Company