KUMULUS DF
Fungicide / Acaricide

EPA Reg. No. 51036-352
EPA SLN No. OR-180007

For Control of Bud Mite in Hazelnuts/Filberts

This label is valid until December 31, 2024 or until otherwise amended, withdrawn, canceled, or suspended.

Active Ingredient:
Sulfur .................................................................................................................. 80%
Other Ingredients .......................................................................................... 20%
Total .................................................................................................................. 100%

KEEP OUT OF REACH OF CHILDREN
CAUTION

ENVIRONMENTAL HAZARDS
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 rinsate or equipment washwaters. DO NOT apply when weather conditions favor drift from treated areas.

DIRECTIONS FOR USE

• It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
• This Special Local Need (SLN) label and the federal label for this product must be in the possession of the user at the time of pesticide application.
• Follow all applicable directions, restrictions, Worker Protection Standard requirements, and precautions on the Kumulus DF package label, EPA Reg. No. 51036-352, and this SLN label.
• 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.

**Spray Coverage**
Foliage must be thoroughly covered with spray. Dense leaf canopies can prevent adequate spray coverage. Due to the need for thorough spray coverage and sufficient spray volume required for control of bud mites, applications should be made by ground equipment.

**Hazelnuts/Filberts:** For control of bud mites, apply 5-25 pounds Kumulus® DF per acre in 50-400 gals of spray volume. Begin application at bud swell and repeat as necessary through shoot elongation stage. Repeat applications on 10 to 14 day intervals.

**Restrictions and Precautions:**

- Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.
- Do not apply if temperatures during or within 3 days after application are expected to exceed 90°F in the area to be treated.
- Do not apply more than 200 pounds of Kumulus DF per acre per season or make more than eight (8) applications per season.
- For use under this SLN, do not apply this product through any type of irrigation system.
<table>
<thead>
<tr>
<th>Conditions of Sale and Warranty</th>
</tr>
</thead>
<tbody>
<tr>
<td>The <strong>Directions For Use</strong> 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 (&quot;BASF&quot;) or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.</td>
</tr>
<tr>
<td>BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the <strong>Directions For Use</strong>, subject to the inherent risks, referred to above.</td>
</tr>
<tr>
<td><strong>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.</strong></td>
</tr>
<tr>
<td><strong>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.</strong></td>
</tr>
<tr>
<td><strong>TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, EXEMPLARY, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.</strong></td>
</tr>
<tr>
<td>BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing <strong>Conditions of Sale and Warranty</strong> which may be varied only by agreement in writing signed by a duly authorized representative of BASF.</td>
</tr>
</tbody>
</table>

*Kumulus DF* is a registered trademark of BASF.

© 2019 BASF Corporation
All rights reserved.

051036-00352.20191210e.**NVA 2019-04-352-0247**
Supersedes: NVA 2018-04-352-0037

**24(c) registrant:**
BASF Corporation
26 Davis Drive
Research Triangle Park, NC 27709
June 25, 2020

Document Processing Desk (SLN)
Office of Pesticide Programs – 7504P
U.S. Environmental Protection Agency
1200 Pennsylvania Ave. NW
Washington, DC  20460-0001

RE:  **Amended SLN**
BASF Corporation / Kumulus® DF Fungicide/Acaricide (a.i. sulfur)
EPA Reg. No. 51036-352, **EPA SLN No. OR-180007**
Site: Filberts (Hazelnuts), for control of bud mite
Expiration Date: December 31, 2024

On January 10, 2020, the Oregon Department of Agriculture (ODA) submitted a revised label to EPA for this SLN registration. During review of that submission, Tamica Cain of the EPA Emergency Response Team contacted us to request that information indicating the maximum annual application rate be added to the label.

ODA has consulted with Dr. Nik Wiman, Orchard Crop Extension Specialist with Oregon State University, who conducted the original research in support of this SLN, to clarify the use pattern in order to identify the maximum annual application rate that has been requested by EPA. This consultation has led us to conclude that we should modify the original label language that indicates the earliest timing for efficacious sulfur applications for bud mite control.

Directions on the current label for SLN No. OR-180007 instruct the user to "Begin application at dormant bud stage and repeat as necessary through shoot elongation stage." However, dormant bud is a phenological stage of filbert that can begin in December and then extend for a period of several months, ending at the point of bud break stage. It is at bud break that the bud mites emerge from the buds and begin migrating on the tree, and that is when they are susceptible to control with sulfur applications. Thus, it is actually the period of transition from dormant bud stage to bud break stage, known as "bud swell", that is the earliest timing for efficacious sulfur applications. The period between bud swell and shoot elongation stage varies among filbert varieties in terms of calendar dates and duration.

Therefore, ODA is amending the SLN No. OR-180007 label as follows:

- Revised the sentence: "Begin application at dormant bud stage bud swell and repeat as necessary through shoot elongation stage."
- Added the new bullet statement in Restrictions and Precautions: "Do not apply more than 200 pounds of Kumulus DF per acre per season or make more than 8 applications per season."
- Extended the expiration date to December 31, 2024 (as with the previous revised label submission).

The amended label is enclosed.
As a courtesy, we are also enclosing a copy of the amended Wilbur-Ellis Company LLC distributor SLN label for Kumulus® DF Fungicide/Acaricide, EPA Reg. No. 51036-352-2935, EPA SLN No. OR-180007. It is acknowledged that BASF Corporation is the Section 24(c) registrant. If/When BASF elects to cancel this SLN registration, the Wilbur-Ellis Kumulus® DF SLN No. OR-180007 label will automatically become invalid.

Please do not hesitate to contact me if you have any questions.

Sincerely yours,

David L. Priebe
State Registration Specialist
ODA Pesticides Program
Phone: (503)986-4656
Fax: (503)986-4735
Email: dpriebe@oda.state.or.us

enclosures: SLN No. OR-180007 labels

cc: Mary Fryczynski, BASF Corporation
Ann Downs, Wilbur-Ellis Company LLC
Michelle Armstrong, Wilbur-Ellis Company LLC
Nik Wiman, Oregon State University – NWREC
Meredith Nagely, Oregon Hazelnut Commission
Steve Foss, Washington State Department of Agriculture
Rose Kachadoorian, ODA Pesticide Programs Manager
Catherine Daniels, PICOL