P.M 21

7969-61 255666/300/1/9

JUN 2 7 1990

Karon R. Blundell BASP Corporation 100 Cherry Hill Road Parsippany, NJ 07054

Dear Ms. Blundell

Subject: Label Revisions - Add Pecane
Kusulus DF Fungicide/scaricide

EPA Registration No. 7969-61
Your Submission Dated Movember 2, 1989

The amendment referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you:

- Submit/cite all data required for registration/reregistration of your product under PIPRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
- 2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
  - a. The changes requested in our previous letter of May 30, 1989 were not included. These were: for sugar and table heets, add "repeat as measury". Under Environmental Mazarde, change the second sentence to read "Do not contaminate water when disposing of aggipment washwaters."
  - b. For avocades, indicate when to apply. Your previous label stated "as meeded." A statement such as "apply when mites are first noticed" would be clearer.
- Submit one (1) copy of your final printed labeling before you release the product for shipsest.

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	CONCURRENCE	5
SYMBOL		
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DATE		
EPA Form 1320-1 (12-70)	Ĝ,	OFFICIAL FILE COPY

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product hearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

Susan Lewis Product Manager (21) Pungicide-Herbicide Branch Registration Division (H7505C)

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BASF

KUMULUS DF Fungicide/Acaricide

Water dispersible sulfur granule Active Ingredient: Inert Ingredients:

Sulfur 80% 20% 100%

Keep Out of Reach of Children. Caution

Statement of Practical Treatment

If swallowed: Call a physician or Poison Control Center. Drink 1 or

2 glasses of water and induce vomiting by touching think of throat
with finger. Do not induce vomiting or give anything by mouth to an
unconscious person.

If splashed in eyes: Get medical attention if irritation develops.

If spilled on skin: Immediately remove contaminated clothing including shoes, and wash skin with soap and plenty of water. If irritation develops, send for a physician.

See side panel for additional Precautionary Statements.

Net: 50 lbs

BASF Corporation 100 Cherry Hill Road Parsippany, NJ 07054 USA

ACCEPTED with COMMENTS in EPA Latter Detect:

JUN 2: 1990

EPA Est. No. 7969-WG 01 EPA Reg. No. 7969-61

Made in West Germany

Under the Federal Insecticide, Fungishe, and Redenticide Act as amended, for the posticide registered under FIA Res No. Precautionary Statements:

Hazards to humans and to domestic animals.

Caution: Harmful if swallowed, avoid breathing spray mist.

Avoid contact with eyes, skin and clothing.

Wash thoroughly with soap and water after handling.

Environmental Hazards:

Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply when weather conditions favor drift from treated areas.

## Reentry Statement:

Do not enter treated areas for 24 hours unless appropriate protective clothing is worn.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers.

When oral warnings are given, warnings shall be given in a language customarily understood by workers and must indicate the specific period of time that treated areas may not be entered without protective clothing. Oral warnings must also include appropriate first aid instructions in case of accidental exposure. These instructions are given in the Statement of Practical Treatment at the beginning of this label. Written warnings must include the following information, "CAUTION. Area treated with Kumulus DF on (date of application). Do not enter without appropriate protective clothing for 24 hours (or other reentry interval if your State has a more restrictive interval for this product). If accidental exposure occurs, follow the instructions below."

(Written warnings must include the Statement of Practical Treatment given at the beginning of this label.)

## Directions for Use:

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

## General:

Do not apply to or allow spray drift on sulfur sensitive plants such as D'anjou pears, apricots, chrysanthemums, cranberries, spinach or other sensitive crops listed on this labeling. Sulfur may burn foliage when temperature is excessively high. Do not apply if temperatures during or within three days after application are expected to exceed 90°F in the area to be treated. Do not apply with or following an oil application for 21 days. Do not apply oil for 21 days following treatment. When growing crops for processing, consult the processor before applying sulfur. Do not apply fumulus DF through any type of irrigation system.

BEST AVAILABLE COPY

DILUTE GROUND APPLICATION:

A-Orchard Application-Apply specified rate in 100 to 800 gallons of water per acre.

B- All Other Applications-Apply specified rate in 20 to 60 gallons of water per acre.

CONCENTRATE GROUND APPLICATION:

A-Orchard Application-Apply specified rate in 20 to 100 gallons of water per acre.

B-All Other Applications-Apply specified rate in not less 5 gallons of water per acre.

AERIAL APPLICATION:

A-Orchard Rates-Should not be applied in less than 10 gallons of water per acre.

B-All Other Applications-Apply specified rate in 5 to 20 gallons of water per acre.

RECOMMENDATIONS: Pour needed amount of Kumulus DF into spray tank under agitation. If necessary, add a few drops of oil to avoid foaming.

CROP	PROBLEM	LBS. PER ACRE
Almonds, cherries, Plums, Prunes, Pecans	Brown rot, Powdery mildew, Leaf spot, Silver mite, Flat mite, ked spider mite.	10-20
Apply at bloom or earl	y petal fall. Repeat a	s necessary, usually

Apply at bloom or early petal fall. Repeat as necessary, usually 10-14 days or after a period of wet weather.

Apples, pears	Powdery mildew, Scab, Blister mite, Red spider mite	10-20	

Do not apply to D'anjou pears or to sensitive apple varieties such as Ontario or Cox orange. Apply pre-bloom and petal fall. Apply with cover sprays throughout the season at 10-14 day intervals.

Acnorace	Drock	10-30
Asparagus*	Rust	10-30

Use after cutting stops. Irrigate and cultivate before applying Kumulus DF. Repeat at 7 to 10 day intervals through the fern growth season.

\*Not registered in California

Avocados	Brown mite	10-30
Beans, Peas, Broccoli, Brussels	Powdery mildew, Septoria leaf spot,	3-5



Sprouts, Cabbage, Red spider mite Cauliflower, Collards, Kale, Peppers, Potatoes, Mustard Greens, Rutabagas, Turnips

Start at early leaf stage. Repeat application every 10-14 days with or without other pesticides immediately after a rain.

Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries (Rubus spp.) Powdery mildew

6-12

Begin when new shoots are 6 inches long and before blossoms open. Repeat at 10 day intervals or as necessary.

Blueberries, Gooseberries, Currents Huckleberries Powdery mildew

6-15

Begin when disease first appears. Repeat at 7 to 10 day intervals or as necessary.

Carrots, Onions, Garlic

Petrobia mite and Powdery 3-10 mildew.

Begin when the disease first appears and repeat as needed.

Citrus

Flat mite, Silver mite, 8-20 Red spider mite

Apply in any spray NOT CONTAINING OIL. Do not apply within 21 days of an oil application.

Corn, Small Grains Sorghum, Soybeans

Suppression of Red spider mite 6-15
Two-spotted mite, Grass banks mite

and Pacific mite; for control of the Atlantic mite (small grain only) and for control of Powdery mildew.

Apply when disease first appears and repeat as necessary or with the regularly scheduled insecticide program.

Cotton, Seed Alfalfa, Grapes Red spider mite

3-5

Powdery mildew, Bud mite, 2-5 Blister mite, Red spider

mite

Apply in late dormancy or with cutworm spray, early shoot period and through season on 14 day schedule or with other pesticides.

Mangoes

Powdery mildew

10-30

Begin before bloom. Repeat in bloom, after fruit set and 3 weeks later or as necessary.

Melons

Powdery mildew

20-25

Treat when the disease first appears and repeat as necessary. Sulfur can injure plants, especially when the temperature reaches 95°F. Do not use on sulfur sensitive varieties.

Peaches, Nectarines

Brown rot, Powdery mildew,

10-20

Silver mite, Red spider

mite

Apply at bloom or early petal fall. Repeat as necessary, usually 10-14 days or after a period of wet weather.

Peanuts

Powdery mildew, Red spider

3-5

mite, Leaf spot

Start in early leaf stage. Repeat applications as necessary, usually 10-24 days.

Strawberries

Powdery mildew,

5-10

Red spider mite

Start in early leaf stage, repeat applications at 10-14 day intervals with or without other pesticides. For Powdery mildew, begin at first signs of disease and repeat as necessary.

Sugar Beets

Red spider mite, Powdery mildew

10-20

Apply at first indication of problem with or without other pesticides.

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3-5 Table Beets Red spluer mite, Powdery mildew Apply at first indication of problem with or without other pesticides. Tomatoes Russet mite 10-20 Thorough coverage is required. Walnuts European red mite, 10-20 Pacific mite. Almond mite, Twospotted mite, Red spider mite Apply with mite sprays during season to increase the effectiveness of miticides. Note to User: Certain varieties of walnuts are sensitive to sulfur sprays under certain conditions. Do not apply unless the varieties are known to be tolerant of sulfur. Ornamentals: 3-5 Asters, Carnations Powdery mildew Calendula, Cherry Leaf spots and Powdery mildew Laurels, Hollyhock, Similax Clematis, Columbine, Leaf Spots Ivy (English), Laurel, Petunia, Sage Cosmos, Crepe Myrtle, Powdery Mildew Dahlia, Delphinium, Gladiolus, Lingustrum, Sunflowers, Sweet Peas,

Roses

Powdery mildew and Black spot 3-5

Apply 3-5 lbs. in 100 gallons of water. Ensure complete plant

coverage. Begin when disease first appears and repeat at 5 to 10 day intervals.

Violets, Zinnias

Storage and Disposal
Do not contaminate water, food, or feed by storage or disposal.
Wastes resulting from the use of this product may be disposed of on

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site or at an approved waste disposal facility. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

## 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 should be followed carefully. However, it is impossible to eliminate all risks inherently associated with 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 or the Seller. 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.

BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. In no case shall BASF or the Seller be liable 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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