

51036-352

1/17/2014

1/21



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

JAN 17 2014

Ms. Catherine M. Holmes
BASF Sparks, LLC
26 Davis Drive
Research Triangle Park, NC 27709

Subject: Kumulus DF
EPA Reg. No. 51036-352
Label notification dated 12/19/2013, resubmission dated 1/9/2014
Decision Number 486654

Dear Ms. Holmes:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10. The Registration Division (RD) has conducted a review of this request for applicability under PRN 98-10 and finds that the label change(s) requested falls within the scope of PRN-98-10. The label has been date-stamped "Notification" and will be placed in our records.

If you have any questions, please call me at 703-305-3510.

Sincerely,

A handwritten signature in black ink, appearing to read "Hope A. Johnson".

Hope A. Johnson
Product Manager (21)
Fungicide Branch
Registration Division (7504P)



United States
Environmental Protection Agency
Washington, DC 20460

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

OPP Identifier Number

Application for Pesticide - Section I

| | | |
|---|--|--|
| 1. Company/Product Number BASF Sparks, LLC/ EPA Reg. 51036-352 | 2. EPA Product Manager Hope Johnson | 3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted |
| 4. Company/Product (Name) Kumulus DF Fungicide/Acaricide | PM# 21 | |
| 5. Name and Address of Applicant (Include ZIP Code) BASF Sparks, LLC, 26 Davis Drive Research Triangle Park, NC 27709 | 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. _____ | |
| <input type="checkbox"/> Check if this is a new address | Product Name _____ | |

Section - II

| | | |
|--|--|---------------------|
| <input type="checkbox"/> Amendment - Explain below. | <input type="checkbox"/> Final printed labels in response to Agency letter dated _____ | NOTIFICATION |
| <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. | JAN 17 2014 |

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification - Minor revision to the Master Label for Kumulus DF Fungicide/ Acaricide. Under "Application Information" the label text referenced a section that was not in the label. The text was corrected. BASF is not proposing a PRIA Category for this action since it is being submitted as a notification under the PR 98-10.

Section - III

| | | | |
|--|--|---|---|
| 1. Material This Product Will Be Packaged In: | | | |
| Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No | Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 2. Type of Container <input type="checkbox"/> Metal <input checked="" 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" Package wgt. No. per container |
| 3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container | | 4. Size(s) Retail Container 30 lb | |
| 5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product | | | |
| 6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled | | <input type="checkbox"/> Other _____ | |

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

| | | |
|-----------------------------|------------------------------------|---|
| Name Catherine M. Holmes | Title Product Registration Mgr. | Telephone No. (Include Area Code) 919 547 2862 |
|-----------------------------|------------------------------------|---|

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.

6. Date Application Received
(Stamped)

| | |
|--------------------------------------|--|
| 2. Signature | 3. Title Product Registration Manager |
| 4. Typed Name Catherine M. Holmes | 5. Date January 9, 2014 |



The Chemical Company

3/21

January 9, 2014

Document Processing Deck (NOTIF)
Office of Pesticide Programs (7504P)
U. S. Environmental Protection Agency
One Potomac Yard (South Building)
2777 South Crystal Drive
Document Processing Desk, Room S-4900
Arlington, VA 22202

NOTIFICATION

JAN 17 2014

Attention: Hope Johnson -- PM Team 21

Dear Ms. Johnson:

**Subject: NOTIFICATION – Minor Correction to Kumulus® DF Fungicide/Acaricide label
(EPA Registration No. 51036-352)**

This is a notification to the EPA that there has been a revision/correction made to the Master Label for Kumulus® DF Fungicide/Acaricide. Under "Application Information" on page 4, the text was revised to include a reference to the "Application Rates" Tables. The reference to "Section VII. Crop Specific Information" was removed as there is no section VII in the label.

The following documents are enclosed in support of the notification as per PR Notice 98-10:

- (1) EPA Form 8570-1 "Application for Pesticide Notification"
- (2) One copy of the proposed Kumulus® fungicide Master Label with changes highlighted
- (3) One clean copy of the proposed Kumulus® fungicide Master Label

BASF is not proposing a PRIA Category for this action since it is being submitted as a notification under the PR Notice 98-10. This statement has also been included in Section II of the EPA Form 8570-1 "Application for Pesticide."

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.



The Chemical Company

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If you have any questions or need clarification or further information, I can be reached directly at (919)-547-2862, or via e-mail at catherine.holmes@basf.com.

Sincerely,

Catherine M. Holmes

Catherine M. Holmes
Product Registration Manager
Regulatory Affairs
BASF

® Registered Trademark of BASF

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NOTIFICATION

JAN 17 2014

KUMULUS® DF

fungicide/acaracide

Active Ingredient:

| | |
|--------------------------|------------|
| Sulfur | 80% |
| Other Ingredients: | <u>20%</u> |
| Total: | 100% |

EPA Reg No: 51036-352

EPA Est. No:

KEEP OUT OF REACH OF CHILDREN

CAUTION/PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID

IF SWALLOWED:

- Call a Poison Control Center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

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 minutes, 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.

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).

In case of emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357). Have the product container with you when calling a poison center or doctor or going for treatment.

BASF Sparks, LLC
26 Davis Drive, Research Triangle Park, NC 27709


The Chemical Company

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Harmful if swallowed. Avoid breathing spray mist. Avoid contact with eyes, skin, and clothing.

EMERGENCY TELEPHONE NUMBERS: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact:

| | |
|----------------|--------------------------------------|
| (800) 424-9300 | CHEMTREC (transportation and spills) |
| (800) 832-HELP | Human health |
| (800) 345-4735 | ASPCA (animal health) |

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some Materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for **Category A** on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear

Follow the manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls Statement:

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:

1. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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.

Endangered Species Concerns

The use of any pesticide in a manner that may kill or otherwise harm an endangered species or adversely modify their habitat is a violation of federal law.

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.

All applicable directions, restrictions, precautions and **Conditions of Sale and Warranty** are to be followed. This labeling must be in the user's possession during application.

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 **24 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:

1. Coveralls
2. Chemical-resistant gloves made of any waterproof material
3. Shoes plus socks
4. Protective eyewear

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standards for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries and greenhouses. Do not allow people or pets on treated surfaces until the spray has dried. Do not enter or allow others to enter the treated area until sprays have dried.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Do not store above 104 F. Store in dry place away from heat, sparks or open flame.

PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. If these wastes cannot be disposed of according to label instructions, contact the state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL

(for paper or plastic bags)

Nonrefillable Container. DO NOT reuse or refill this container. After completely emptying container into application equipment, dispose of empty bag in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

I. General Information

Kumulus® DF fungicide/acaracide is a water dispersible sulfur granule.

Crop Tolerance

All listed crops are tolerant to Kumulus DF.

Spray Coverage

Foliage must be thoroughly covered with spray. Dense leaf canopies can prevent adequate spray coverage.

Cleaning Application Equipment

Clean application equipment thoroughly using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions before and after applying this product.

II. Application Information

Apply the recommended rate of Kumulus DF listed in the **Application Rates** table, **Ornamentals and Turf** and **Crops**, when pests or diseases are first noticed. Apply at 1-2 week intervals, or as needed and after wet weather.

Air Application Water Volume:

- Orchards: Apply in no less than 10 gallons of water per acre.
- All other applications: Apply in 5-20 gallons of water per acre.

Ground Application (Concentrate)

Water Volume:

- Orchards: Apply in 20-100 gallons of water per acre.
- All other applications: Apply in no less than 5 gallons of water per acre.

Ground Application (Dilute)

Water Volume:

- Orchards: Apply in 100-800 gallons of water per acre.
- All other applications: Apply in 20-60 gallons of water per acre.

GENERAL CHEMIGATION INSTRUCTIONS

Apply this product only through one or more of the following types of systems: sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation system(s).

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

PRECAUTION: Corrosion of aluminum and carbon/galvanized steel irrigation sprinkler systems may be experienced with the use of sulfur fungicides. The end-user assumes all responsibility for use of this product through such systems. If the user elects to apply this product through such systems, it is essential that all application equipment containing this product be thoroughly flushed with clean water after each day's use. Continue to operate system with clean water until all product has cleared the last sprinkler head.

Crop injury or lack of effectiveness can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

A. Center Pivot, Traveler, Big Gun, Motorized Lateral Move, End Tow, and Side (Wheel) Roll Irrigation Equipment: Operate system and injection equipment at normal pressures recommended by the manufacturer of injection equipment used. Fill tank or injection equipment with water. Operate system for one complete circle for center pivot or one complete run for the other recommended equipment, measuring time required, amount of water injected, and acreage contained in circle or run. Mix recommended amount of product for acreage to be covered into same amount of water used during calibration and inject into system continuously for one revolution or run, but continue to operate irrigation system until the product has been cleared from last sprinkler head. Spray mixture in the chemical supply tank must be agitated at all times, otherwise settling and uneven application may occur.

B. Solid Set and Hand Move Irrigation Equipment: Determine acreage covered by sprinkler. Fill tank of injection equipment with water and adjust flow to use contents over a thirty to forty-five minute period. Mix desired amount of product for acreage to be

covered into quantity of water used during calibration and operate entire system at normal pressures recommended by the manufacturer of injection equipment used for amount of time established during calibration. Provide constant mechanical agitation in the mix tank to insure that the product will remain in suspension during the injection cycle. This product can be injected at the beginning or end of the irrigation cycle or as a separate application. Stop injection equipment after treatment is completed and continue to operate irrigation system until pesticide is cleared from last sprinkler head.

SAFETY DEVICES

(1) The systems designated above must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. (2) All pesticide injection pipelines must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. (3) The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. (4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. (5) The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. (6) Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. (7) Do not apply when wind speed favors drift beyond the area intended for treatment.

SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Public water systems means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or, in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

For additional instructions on safety precautions refer to statements (2), (3), (4), (6), and (7) in the section on **SAFETY DEVICES**.

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APPLICATION RATES

ORNAMENTALS AND TURF

| Crop | Pest | Rate Per Acre | Directions |
|---|--|-------------------------|--|
| Asters Carnations | Powdery mildew | 3-10 pounds (ground) | Apply when disease first appears and repeat at 5-10 day intervals. |
| Calendula Cherry laurels Hollyhock Smilax | Leaf spot Powdery mildew | 3-20 pounds (air) | |
| Clematis Columbine Ivy (English) Laurel Petunia Sage | Leaf spot | | |
| Cosmos Crape myrtle Dahlia Delphinium Gladiolus Ligustrum Sunflowers Sweet peas Violets Zinnias | Powdery mildew | | |
| Roses | Powdery mildew Black spot | | |
| Turf (all types and applications including but not limited to golf putting, non- putting greens with no cutting restrictions) | Suppression of Fusarium patch in bentgrass Bluegrass Ryegrass Fescue and Take-all in bentgrass | 10-55 pounds | Monthly application September through May. Apply as a preventative measure prior to the outbreak of disease. Use higher rate when condition favor disease. Use higher rate when temperatures are less than 80° F. Can cause <i>Poa Annua</i> decline. The addition of Sylgard® 309 adjuvant will aid in providing necessary thorough coverage. |

III. Additives

BASF does not have a list of recommended additives or adjuvants for use with **Kumulus® DF** fungicide/acaracide.

IV. Mixing Order

- 1) Water: Begin by agitating a thoroughly clean sprayer tank half full of clean water.
 - 2) **Kumulus DF**: Add recommended amount of **Kumulus DF**.
 - 3) If necessary, add a few drops of oil to avoid foaming.
 - 4) Remaining quantity of water
- Maintain constant agitation during application. For more information, refer to section V. **Tank Mixing Information**.

V. General Tank Mixing Information

BASF does not have a list of recommended tank mixes for use with this product. Consult your local County Agricultural Extension Agent or agricultural advisor for assistance.

APPLICATION RATES

CROPS

| Crop | Pest | Rate Per Acre | Directions |
|--|--|---------------|--|
| Alfalfa | Lygus Pacific and Strawberry (Atlantic) mites Red spider mites | 12-25 pounds | Repeat at 1-2 week intervals. |
| Almonds Cherries Plums Prunes | Brown rot blossom blight Powdery mildew Cherry leaf spot Silver mite Flat mite Red spider mite | 10-30 pounds | Apply at bloom or early petal fall. Repeat as necessary, usually 10-14 days or after wet weather. For brown rot of fruit, apply when fruit starts to ripen. |
| Apples Pears (Dormant, Delayed Dormant, or Postharvest) | Pear Psylla Blister mite Two-Spotted mite Red Spider mite | 10-20 pounds | Apply with a suitable spray oil postharvest and during the dormant periods of bud development. Do not apply to sensitive varieties of pears except at these stages. |

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21**APPLICATION RATES (continued)****CROPS**

| | | | |
|--|---|--------------|--|
| Apples Pears | Powdery mildew Scab Blister mite Red spider mite | 10-20 pounds | Do not apply to D'anjou pears or sensitive apple varieties (i.e. Ontario or Cox orange). Apply prebloom and petal fall. Apply with cover sprays throughout the season at 10-14 day intervals. |
| Artichokes (all varieties) | Leaf Spot | 10-20 pounds | Begin when disease first appears and repeat at 7-10 day intervals. |
| Asparagus* | Rust Mites | 10-30 pounds | Use after cutting. Irrigate and cultivate before applying. Repeat at 7-10 day intervals through fern growth season. |
| Avocados | Brown mite | 10-30 pounds | Apply when mites are first noticed. |
| Beans Peas Broccoli Brussels sprouts Cabbage Cauliflower Celery Collards Kale Peppers Potatoes Mustard greens Rutabagas Turnips | Powdery mildew Septoria leaf spot Red Spider mite | 3-10 pounds | 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 | Powdery mildew | 6-15 pounds | Begin when new shoots are 6 inches long and before blossoms open. Repeat at 10 day intervals or as necessary. |

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APPLICATION RATES (continued)

CROPS

| | | | |
|--|--|-------------|--|
| Blueberries Gooseberries Currants Huckleberries | Powdery mildew | 6-15 pounds | Begin when disease first appears. Repeat at 7-10 day intervals or as necessary. |
| Carrots, Onions (Dry and Green) Dry shallots Garlic | Petrobia mite Powdery mildew | 3-10 pounds | Begin when disease first appears. Repeat at 7-10 day intervals or as necessary. |
| Citrus | Broad mite Bud mite Six-spotted mite Rust mite Flat mite Silver mite Red Spider mite Yuma Spider mite Thrips | 8-20 pounds | Apply in any spray not containing oil. Do not apply within 21 days of an oil application. |
| Cucumbers | Powdery mildew | 2-6 pounds | Apply when disease first appears and repeat as necessary. Do not apply more than 2 pounds per acre per application during periods of high temperatures. |
| Clover | Powdery mildew Red Spider mites | 2-8 pounds | Apply as needed. |
| Corn Small grains: Sorghum Soybeans | Suppresses: Red Spider mite Two-spotted mite Grass Banks mite Pacific mite Controls: Atlantic mite (small grain only) Powdery mildew | 6-15 pounds | Apply when disease first appears and repeat as necessary or with the regularly scheduled insecticide program. |

APPLICATION RATES (continued)

CROPS

| | | | |
|-----------|--|-------------------------------|--|
| Cotton | Red Spider mite Atlantic Mite Two-spotted Mite Red Spider Mite | 3-10 pounds | Apply throughout season as necessary. California Only: Apply a maximum of 5 lbs per acre as necessary |
| Cowpeas | Rust | 2-8 pounds | Begin soon after seedlings emerge. Repeat at 7 to 10 day intervals as needed throughout the season |
| Dates | Bank grass mites | 4-6 pounds | Apply as needed. |
| Eggplants | Powdery mildew | 2-5 pounds | Apply 2 to 5 pounds per acre. Begin when first true leaves appear. Repeat at weekly intervals as needed. |
| Flax | Powdery mildew | 2-8 pounds | Begin at first sign of disease. Repeat at 7-10 day intervals or as necessary. |
| Figs | Fig Rust mite Eriophyid mites | 4-6 pounds or 15-30 pounds | Apply 4-6 pounds in 100 gallons of water as a dilute application or 15-30 pounds per acre as an air or concentrate application. Apply in spring and early summer when damage to foliage (russetting) appears. A second application may be necessary. |
| Grapes | Powdery mildew Bud mite Blister mite Red Spider mite Phomopsis | 2-10 pounds | Apply in late dormancy or with the cutworm spray, early shoot period and through season on a 7 to 14 day schedule or with other pesticides. |

APPLICATION RATES (continued)**CROPS**

| | | | |
|----------------------------|--|--------------|---|
| Grass Hay* | Suppression of Winter Grain mite Clover mite | 10-25 pounds | Apply when mites are present, from late fall to mid-spring. Repeat application as necessary. |
| Hops | Suppression of Red Spider mites | 2-4 pounds | Apply as needed for suppression. |
| Lettuce (Head and Leaf) | Powdery mildew Rust Red Spider mite | 5-6 pounds | Apply at early leaf stage and repeat every 14 days or as needed. |
| Mangoes | Powdery mildew | 10-30 pounds | Begin before bloom. Repeat in bloom, after fruit set, and 3 weeks later or as necessary. |
| Melons | Powdery mildew | 5-25 pounds | 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. |
| Mint | Powdery mildew | 4-6 pounds | Apply when infection appears. Apply additional sprays at 3-week intervals until pink bud stage or 4 weeks before harvest. Apply as often as necessary to cover new growth or until growth ceases in the fall. |
| Olives | Olive mites | 4-10 pounds | Apply as needed. |

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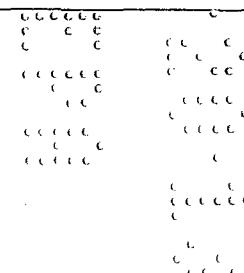
APPLICATION RATES (continued)**CROPS**

| | | | |
|--------------------------|--|--------------|---|
| Papayas (Hawaii only) | Mites (Except Carmine mites) | 8-26 pounds | Apply when mites first appear and repeat as necessary to maintain control. Do not apply in combination with emulsifiable pesticide formulations since foliar injury may occur. May be applied up to 24 hours before harvest. Do not apply to low vigor or moisture stressed plants. Do not apply prior to or during periods of excessively high temperatures, periods of low rainfall or within two weeks of an oil spray. |
| Peaches Nectarines | Brown rot Blossom blight Powdery mildew Silver mite Red Spider mite | 10-30 pounds | Apply at bloom or early petal fall. Repeat as necessary, 10-14 days or after wet weather. For brown rot of fruit, apply when fruit starts to ripen. |
| Peanuts | Powdery mildew Red Spider mite Leaf spot | 3-8 pounds | Start in early leaf stage. Repeat applications as necessary, usually 10-24 days. |
| Pecans | Powdery mildew Leaf spot Silver mite Flat mite Red Spider mite Sooty mold Two Spotted mite Eriophyid mite | 10-20 pounds | Apply at bloom or early petal fall. Repeat as necessary, usually 10-14 days or after wet weather. NOTE: Some varieties of pecans are sensitive to sulfur sprays under certain conditions. Do not apply unless varieties are known to be tolerant of sulfur. |

APPLICATION RATES (continued)

CROPS

| CROPS | | | |
|--------------|---|--------------|---|
| Pistachios | Citrus Flat mite | 10-25 pounds | Apply when mites first appear. Repeat as necessary. When temperatures exceed 95° F lower rates and more frequent applications are advised in order to avoid crop injury. |
| Pomegranates | Mites | 3-10 pounds | Begin application in May or June. Make additional applications on a 3-4 week schedule, or as necessary. Use higher rates if past mite damage has been high. If temperatures exceed 95° F, lower rates and more frequent applications are advised in order to avoid crop injury. |
| Seed Alfalfa | Red Spider mite | 3-5 pounds | Apply 3 to 5 pounds per acre as necessary. Repeat at two week intervals as necessary. |
| Quince | Brown rot Blossom blight Powdery mildew | 10-30 pounds | Begin application at early leaf stage and repeat as necessary. Do not use on sulfur sensitive varieties. |
| Squash | Powdery mildew | 5-10 pounds | Apply when disease first appears and repeat as needed. Sulfur can injure plants, especially when temperature reaches 95° F. Do not use on sulfur sensitive varieties. |



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APPLICATION RATES (continued)**CROPS**

| | | | |
|-----------------------|--|--------------|---|
| Strawberries | Powdery mildew Red Spider mite | 5-10 pounds | 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. Do not use on sulfur sensitive varieties. |
| Sugar beets | Red Spider mite Powdery mildew | 5-20 pounds | Apply at first indication of problem with or without other pesticides. Repeat as necessary. |
| Table beets | Red Spider mite Powdery mildew | 3-5 pounds | Apply at first indication of problem with or without other pesticides. Repeat as necessary. |
| Tomatoes | Russet mite | 3-20 pounds | Thorough coverage is required. |
| Walnuts Macadamias | Broad mites European Red mite Pacific mite Almond mite Two-spotted mite Red Spider mite | 10-20 pounds | Apply with mite sprays during season to increase the effectiveness of miticides. Note to user: Certain varieties are sensitive to sulfur sprays under certain conditions. Do not apply unless the varieties are known to be tolerant of sulfur. |

*Not Registered In California

VI. Restrictions and Limitations

Restricted Entry Interval (REI): 24 hours.

- 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 3 days after application are expected to exceed 90 F in the area to be treated.
- Do not use within 2 weeks of an oil spray treatment, except for Dormant, Delayed Dormant or Postharvest applications with a suitable oil. For citrus, do not apply within 21 days of an oil spray.
- When growing crops for processing, consult the processor before applying sulfur.

Crops:

This product can be used on the following crops:

Fruit
Ornamental
Row crop
Tree nut
Vegetable

Look inside for complete Restrictions and Limitations and Application Instructions.

Insects and Mites listed in this label

| | |
|-------------------|---------------------------|
| Almond mite | Flat or False Spider mite |
| Banks Grass mite | Pacific mite |
| Blister mite | Peach Silver mite |
| Broad mite | Pearleaf Blister mite |
| Brown mite | Petrobia mite |
| Bud and Rust mite | Red Spider Mite |
| Citrus Flat mite | Russet mite |
| Citrus Red mite | Silver mite |
| Cyclamen mite | Strawberry (Atlantic) |
| European Red mite | Spider mite |
| Fig ruse mite | Two Spotted Spider mite |

Diseases listed in this label

| | |
|----------------------|--------------------|
| Black Spot | Powdery Mildew |
| Brown Rot | Scab, apple |
| Blossom Blight | Scab, pear |
| Cherry Leaf Spot | Septoria leaf spot |
| Ornamental Leaf Spot | |

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.

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