ACCEPTED

DEC 17 1996

Under the Federal Insecticide. Fungicido, and Rodonticide Act. as amended, for the posticide registered under EPA Reg. Mc. 7

fungicide/acaricide

Water dispersible sulfur granule containing: Active Ingredient: Sulfur

Inert Ingredients:

EPA Reg. No. 7969-61

EPA Est. No. 7969-WG-01

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 back 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: Wash skin with soap and plenty of water. If irritation develops, send for a physician.

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** for information about this standard.

Net contents: 50 pounds

Made in Germany

BASF Corporation . P.O. Box 13528, Research Triangle Park, NC 27709

Precautionary Statements HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)

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

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

Follow manufacturer's instructions for cleaning/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
"andard (WPS) for agricultural pesties [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:

- 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.
- 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.

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 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:

- Coveralls
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

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 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.

Restrictions and Limitations

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 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 **Kumulus® DF fungicide/acaricide** through any type of irrigation system.

Application Information
Dilute ground application
Orchard application: Apply specified rate in 100-800 gallons of water
per acre.

All other applications: Apply specified rate in 20-60 gallons of water per acre.

Concentrate ground application Orchard application: Apply specified rate in 20-100 gallons of water per acre.

All other applications: Apply specified rate in not less than 5 gallons of water per acre.

Aerial application Orchard rates: Should not be applied in less than 10 gallons of water per acre.

All other applications: Apply specified rate in 5-20 gallons of water per acre.

Mixing Recommendations:

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

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Crop	Problem	Pounds per acre
Alfalfa	Lygus, Pacific, and Strawberry (Atlantic) mites	12-25
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	10-20
Apply at bloom or early petal fall. Repeat as r when fruit starts to ripen.	necessary, usually 10-14 days or after wet weather. For brown	wn rot of fruit, apply
Apples, pears	Powdery mildew, Scab, Blister mite, Red spider mite	10-20
Do not apply to D'anjou pears or to sensitive Apply with cover sprays throughout the seasc	apple varieties such as Ontario or Cox orange. Apply pre-bl on at 10-14 day intervals.	oom and petal fall.
Asparagus*	Rust	10-30
Use after cutting stops. Irrigate and cultivate I vals through the fern growth season. Not registered in California.	pefore applying Kumulus^e DF fungicide/acaricide . Repea	at at 7-10 day inter-
Avocados	Brown mite	.10-30
Apply when mites are first noticed.	evity in the second many companies above the extra	
Beans, peas, broccoli, Brussels sprouts, cabbage, cauliflower, collards, kale, peppers, potatoes, mustard greens, rutabagas, turnips	Powdery mildew, Septoria leaf spot, Red spider mite	3-5
Start at early leaf stage. Repeat application e	very 10-14 days with or without other pesticides immediatel	y after a rain.
Blackberries, boysenberries, dewberries, loganberries, raspberries (Rubus spp.)	Powdery mildew	6-12
Begin when new shoots are 6 inches long an	d before blossoms open. Repeat at 10 day intervals or as n	ecessary.
Blueberries, gooseberries, currants, nuckleoerries	Powdery mildew	- · · · · · · · · · · · · · · · · · · ·
Begin when disease first appears. Repeat at	7-10 day intervals or as necessary.	
Carrets, onions, garlic	Petrobia mite and Powdery mildew	3-10
Begin when disease first appears and repeat		
Citrus	Rust mite, Flat mite, Silver mite, Red spider mite	8-20
Apply in any spray not containing oil. Do no	• • • • • • • • • • • • • • • • • • • •	0- <u>20</u> .
Corn, small grains, sorghum, soybeans	Suppression of Red spider mite, Two-spotted mite, Grass banks mite, and Pacific mite; for control of Atlantic mite (small grain only), and for control of Powdery mildew	6-15
Apply when disease first appears and repeat	as necessary or with the regularly scheduled insecticide pro	gram.
Cotton, seed alfalfa	Red spider mite	3-5
Grapes	Powdery mildew, Bud mite, Blister mite, Red spider mite	2-5
·	pray, early shoot period and through season on 14-day sch	
Hops	Suppression of Red spider mites.	2-4
Do not apply in less than 10 gallons of water	per acre.	. 12 L
Mangoes	Powdery mildew	10-30
Begin before bloom. Repeat in bloom, after fr		
Melons	Powdery mildew	20-25
reaches 95° F. Do not use on sulfur-sensitive		ne temperature
Mint	Powdery mildew	4
week intervals as often as necessary to cover		um of 20 gallons per
Peaches, nectarines	Brown rot blossom blight, Powdery mildew, Silver mite, Red spider mite	13-20 •
		a 200
Apply at bloom or early petal fall. Repeat as no For brown rot of fruit, apply when fruit starts to	ecessary, usually 10-14 days or after wet weather, or ipen.	1 2
Apply at bloom or early petal fall. Repeat as no For brown rot of fruit, apply when fruit starts to Peanuts	ecessary, usually 10-14 days or after wet weather, or ripen. Powdery mildew, Red spider mite, Leaf spot	3-5() ₂

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Crop	Problem	Pounds per acre
Pecans	Powdery mildew, Leaf spot, Silver mite, Flat mite, Red spider mite	10-20
Apply at bloom or early petal	fall, Repeat as necessary, usually 10-14 days or after wet weather.	
Pistachios	Citrus Flat Mite	20-25
Apply when mites first appea	ar. Repeat as necessary.	
Strawberries	Powdery mildew, Red spider mite	5-10
Start in early leaf stage, repe For Powdery mildew, begin a	eat applications at 10-14 day intervals with or without other pesticides. at first signs of disease and repeat as necessary.	
Sugar beets	Red spider mite, Powdery mildew	10-20
Apply at first indication of pro	oblem with or without other pesticides. Repeat as necessary.	
Table beets	Red spider mite, Powdery mildew	3-5
Apply at first indication of pro	oblem with or without other pesticides. Repeat as necessary.	· · · · · · · · · · · · · · · · · · ·
Tomatoes	Russet mite	10-20
Thorough coverage is require	ed.	
Walnuts	European red mite, Pacific mite, Almond mite, Two-spotted mite, Red spider mite,	10-20
	g season to increase the effectiveness of miticides. Note to user: Cer n conditions, Do not apply unless the varieties are known to be toleran	

Ornamentals

Asters, carnations	Powdery mildew	3-5
Calendula, cherry laurels, hollyhock, smilax	Leaf spot and Powdery mildew	3-5 :
Clematis, columbine, ivy (English), laurel, petunia, sage	Leaf spot	3-5.
Cosmos, crape myrtle, danlia, delphinium, gladiolus, ligustrum, sunflowers, sweet peas, violets, zinnias	• Powdery mildew	- 3-5 · · · · · · · · · · · · · · · · · · ·
Roses	Powdery mildew and Black spot	3-5
Apply 3-5 pounds in 100 gallons of water. En 5-10 day intervals.	sure complete plant coverage, Begin when	disease fi <u>rst appears</u> and repeat at

Turf

rf, all types and applications (including but Suppression of Fusarium Patch in bentgrass, bluegrass, rot limited to golf putting/nonputting greens) with no cutting height restrictions

Monthly applications September through May. Apply as a preventative measure prior to the outbreak of disease. Use the higher rate when weather conditions indicate a potential for increased disease expression. Higher rates should be used when temperatures are below 80° F, lower rates when temperatures exceed 80° F. Can cause *Poa annua* decline, Thorough coverage is required. The addition of **Sylgard® 309** adjuvant will aid in coverage.

Nutrient Use

Kumulus® DF contains sulfur, which is an essential nutrient for plant growth. Therefore, when applied as directed, Kumulus DF can be considered a necessary component of the total plant nutrient profile. Local agricultural authorities may be a reliable source for additional information pertaining to this use.

BASF recommends **Kumulus DF** on the following crops as a micronutrient supplement: alfalfa, almonds, chemies, plums, prunes, pecans, apples, (except sensitive varieties such as Ontario or Cox orange), pears (except D'anjou), asparagus, avocados, beans, peas, broccoli, Brussels sprouts, cabbage, cauliflower, collards, kale, pecans, peppers, potatoes, mint, mustard greens, rutabagas, turnips, blackberries,

boysenberries, dewberries, loganberries, raspberries, blueberries, gooseberries, currants, huckleberries, carrots, onions, garlic, citrus, com, small grains, sorghim, soybeans, cotton, seed alfalia, grapes, mangoes, niclons, peaches, nectarines, peanuts, pistachios, strawberries, sugar beets, table beets, tomatoes, and walnuts (except sensitive varieties).

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 ("BASF") 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 WARRAN-TY OF FITNESS OR MER-CHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRAN-TY. 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

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