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ACCEPTED

a-27-97

Under the Federal Insecticide, Fungicide, and Rodenticide Act. or amended, for the posticide registered under

Kumulus® DF fungicide/acaricide

Water dispersible sulfur granule containing:

Active Ingredient:

Sulfur 80% Inert Ingredients: 20%

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 imitation develops.

If spilled on skin: Wash skin with soap and plenty of water. If imitation 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 YO NOV 26 PA

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Precautionary Statements
HAZARDS TO HUMANS (AND
DOMESTIC ANIMALS)

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

pplicators and other handlers must wear:

- *Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socksProtective 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 Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)],

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 inconsis-

tent 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 ernergency 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.

Crop	Problem	Pounds per acre
Alfalfa	Lygus, Pacific, and Strawberry (Atlantic) mites	12-25
Repeat at 1-2 week intervals.		
Almonds, chernes, 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 no when fruit starts to ripen.	ecessary, usually 10-14 days or after wet weather. For brown	vn rot of fruit, apply
Apples, pears	Powdery mildew, Scab, Blister mite, Red spider mite	10-20
	apple varieties such as Ontario or Cox grange, Apply pre-bl	-
Asparagus*	Rust	10-30
· •	efore applying Kumulus^e DF fungicide/acaricide . Repea	at at 7-10 day inter-
Avocados	Brown mite	W10'30'-M TELL MOL
Apply when mites are first noticed.	·	
Beans, peas, broccoli, Brussels sprouts, cabbage, cauliflower, collards, kale, peppers, potatoes, mustard greens, rutabagas, turnips	Powdery mildew, Septona leaf spot, Hed spider mite	3.5
Start at early leaf stage. Repeat application evi	ery 10-14 days with or without other pesticides immediately	y 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 ne	ecessary.
Blueberries, gooseberries, currants, huckleberries	Powdery mildew	6-15
Begin when disease first appears. Repeat at 7	-10 day intervals or as necessary.	
Carrots, cnions, garlic	Petrobia mite and Powdery mildew	3-10
Begin when disease first appears and repeat a	is necessary.	
Citrus	Rust mite. Flat mite, Silver mite, Red spider mite	8-20
Apply in any spray not containing oil. Do not		
Corn, small grains, sorghum, soybeans	Suppression of Fied spider mite, Two-spotted mite, Grass banks mite, and Pacific mite; for control of Atlantic mite (smail grain only), and for control of Powdery mitdew	6-15
Apply when disease first appears and repeat a	is necessary or with the regularly scheduled insecticide pro-	gram.
Cotton, seed a faifa	Red so car mite	3.5
Grapes	Powdery mildew, Bud mite, Blister mite, Red spider mite	2-5
·	ray, early shoot period and through season on 14-day sche	dule or with other
Hops	Suppression of Red spider mites.	2-4
Do not apply in less than 10 gallons of water p		
Mangoes	Powdery mildew	10-30
Begin before bloom. Repeat in bloom, after fru	it set, and 3 weeks later or as necessary.	
Melons	Powdery mildew	20-25
Treat when the disease first appears and repereaches 95° F. Do not use on sulfur-sensitive v	at as necessary. Sulfur can injure plants, especially when the	e temperature
Mint	Powdery mildew	4
sprays at 3-week intervals until pink bud stage week intervals as often as necessary to cover:		and repeat at 3- m of 20 gallons per
Peaches, rectarines	Brown rot blossom blight, Powdery mildew, Silver mite, Red spider mite	10-20
Apply at bloom or early petal fall. Repeat as ne For brown rot of fruit, apply when fruit starts to	cessary, usually 1,0-14 days or after wet weather. ripen.	
D	Powdery mildew, Red spider mite, Leaf spot	3-5
Peanuts	t order, ried opider time, edu opid	

Crop	Problem ************************************	Pounds per acre
Pecans	Powdery mildew, Leaf spot, Silver mite, Flat mite, Red spider mite	10-20
Apply at bisom or early petal fall	I. Repeat as necessary, usually 10-14 days or after wet weather."	in terms in the state of the state of
Pistachios	Citrus Flat Mite	20-25
Apply when mites first appear.	Repeat as necessary.	the south the second of the
Strawberries	Powdery mildew, Red spider mite	5-10
	applications at 10-14 day intervals with or without other pesticides.	ar e manada e e e e e e e e e e e e e e e e e e
Sugar beets	Red spider mite, Powdery mildew	10-20
Apply at first indication of proble	em with or without other pesticides. Repeat as necessary.	ENTRACTOR STORES
Table beets	Red spider mite, Powdery mildew	3-5
Apply at first indication of problem	em with or without other pesticides. Repeat as necessary.	
Tomatoes	Russet mite	10-2C
Thorough coverage is required.	(1) 2 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	の機構では、一個ないでは、サイトの
Walnuts	European red mite, Pacific mite, Almond mite, Two-spotted mite, Red spider mite,	10-2C
	eason to increase the effectiveness of miticides. Note to user: Certa and to not apply unless the varieties are known to be tolerant or	
Figs	Fig rust mite	4-6
		15-30

tion. Apply in spring and early summer when damage to foliage (russeting) appears. A second application may be necessary.

Omamentals

Asters, carnations	Powdery midew	معمد بعيستها رائمها الما الما الما	3=5	
Calendula, cherry aures, hollyhock, smilax	Leaf spot and Powdery mildew	स्त्री के किया के किया किया किया किया किया किया किया किया किया	- 30 B - 120 A	4
Clematis, columbine, ivy (English), laurel. petunia, sage	Leaf spct if the leaf spct is	- a 4 a - 4 m2 1 v. 1. 24 d	3.5. W. G.	, Produce de
Cosmos, crape myrtle, dahlia, delphinium, gladiolus, "gustrum, sunflowers, sweet beas, violets, zinnias	Powdery mildew	· · · · · · · · · · · · · · · · · · ·	3-5	
Roses	Powdery mildew and Black spot		3-5	

Turf

Turf, all types and applications (including but not limited to golf putting/nonputting greens) with no cutting height restrictions		1C-55
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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. Torough 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 his use.

BASF recommends Kumulus DF on the following crops as a micronutrient supplement: alfalfa, almonds, cherries, plums, prunes, pecans, apples, lexcept sensitive varieties such as Ontario or Cox orangel, pears lexcept 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, corn, small grains, sorghum, soybeans, cotton, seed alfalfa, grapes, mangoes, melons, peaches, nectarines, pear Lts, pistachios, strawberries, sugar beets, table beets, tomatoes, and walnuts (except sensitive varieties).

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