

US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (15-767)
WASHINGTON, DC 20460

EPA REGISTRATION NO.

DATE OF ISSUANCE

TERM OF ISSUANCE

NAME OF PESTICIDE PRODUCT

NOTICE OF PESTICIDE: REGISTRATION

(Under the Federal Insecticide, Fungicide, and Rodenticide Act)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

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NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an endorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under the Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

3. Submit (3) copies of your final printed labeling to EPA. You release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

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ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE

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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 constitutes acceptance of these conditions.

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

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

Enclosures

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GOWAN SULFUR 6F

Active Ingredient:		
Sulfur (elemental)	52%
Inert Ingredients	48%
Total	100%

Contains 6 pounds of sulfur per gallon.

Keep out of Reach of Children

CAUTION

Statement of Practical Treatment

If swallowed, call a physician or Poison Control Center. Induce vomiting by giving 1 or 2 glasses of water and touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

If inhaled, remove victim to fresh air. Apply artificial respiration if victim is not breathing. Get medical attention.

If on skin, wash with soap and water. Get medical attention if irritation persists.

If in eyes, flush with plenty of water. Get medical attention if irritation persists.

See side panels for precautionary measures.

Net contents _____ gallons

Gowan Company

EPA Reg. No. 10163-
EPA Est. No. 10163-AZ-1

Box 5696
Yuma, Arizona 85364

ACCEPTED
with COMMENTS
in EPA Letter Dated:

JAN 10 1990

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide
registered under EPA Reg. No.

10163-135

STORAGE AND DISPOSAL

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

Storage: Store in a dry and secure location. In case of container leakage, absorb spillage with clay, sawdust or other absorbent material. Repackage usable product in sound container. Dispose of used absorbent according to applicable laws.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container disposal: Triple rinse or equivalent. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

CROP USE RECOMMENDATIONS

Field Precautions

Use this product only as recommended on this label. Sulfur may burn foliage and fruit in periods of high temperature. Do not apply to any crop except cotton when temperatures may exceed 90°F. Unless otherwise specified, do not combine Gowan Sulfur 6F with spray oil or apply within three weeks of a spray oil application except during dormant applications or severe foliar burn may result. On citrus, do not combine with spray oils or apply within four weeks of spray oil applications. Avoid combinations of Gowan Sulfur 6F with captan on sulfur sensitive crops. Do not use with oil concentrate or penetrating surfactants. Use caution when combining with emulsifiable concentrates as injury may result. Sulfur may be applied with dormant oil during the dormant period only.

Do not apply to sulfur-sensitive crops, or injury will result. Sulfur-sensitive crops include apricots, d'Anjou and Comice pears, cranberries, melons, cucumber, squash, filberts, spinach and walnuts.

Consult your State Agriculture Experiment Station or Cooperative Extension Service for information on the use of sulfur under local conditions.

Mixing and Application Directions

This product is a water based suspension. Agitate container before adding contents to mix tank. Partially fill mix tank, then, with agitation operating, add sulfur. See Dilution Directions for guidelines on the correct amount of water to use. Maintain agitation until application is complete, as material may not resuspend.

Thoroughly rinse equipment with clear water after each day's use. Sulfur can damage equipment if allowed to set.

Do not allow to drift to sulfur-sensitive crops (as listed under Field Precautions).

This product may be applied with liquid fertilizers.

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

-CAUTION-

Harmful if swallowed, inhaled, or absorbed through skin. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Wash with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters. Do not apply when weather conditions favor drift from area treated. Do not apply where runoff is likely to occur. Apply only as specified on this label.

PHYSICAL AND CHEMICAL HAZARDS

Keep away from sparks and open flame. Do not reuse empty container. Clean equipment after use to avoid caking with dry sulfur residues, which are flammable.

DIRECTIONS FOR USE

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

REENTRY STATEMENTS

Do not apply this product in a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Do not enter treated areas without protective clothing until sprays have dried.

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. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written and oral warnings must include the following information: CAUTION: Area treated with sulfur on (date of application). Do not enter without appropriate protective clothing until sprays have dried. In case of accidental exposure, follow instructions under Statement of Practical Treatment section.

Protective clothing means, at least, a hat or other suitable head covering, a long-sleeved shirt and long-legged trousers or a coverall type garment (all of closely woven fabric covering the body, including the arms and legs), shoes and socks.

CHEMIGATION

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

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Dilution Directions

The rate required to provide thorough, uniform coverage varies with plant growth at time of application. The following rates are therefore intended to cover a broad range of applications.

Dilute Application

Field and Row Crops: Apply specified rate in 20 to 75 gallons of water per acre.

Trees and Vines: Apply specified rate in 100 to 800 gallons of water per acre. For citrus, use up to ~~3,000~~ 1,600 gallons of water per acre.

Concentrate Application

Field and Row Crops: Apply specified rate in not less than 5 gallons of water per acre.

Trees and Vines: Apply specified rate in 20 to 100 gallons of water per acre. Special concentrate equipment is required for these applications.

Air Application

Apply specified rate in a minimum of 5 gallons of water per acre. For citrus, use a minimum of 8 gallons of water per acre.

Recommendations

Rates are per acre. There are no preharvest intervals. Use higher rates for harder to cover conditions, or when disease pressure is severe.

Trees and Vines

Crop	Disease/Pest	Rate	Remarks
Apples	Scab	2-4 gals.	Prebloom through calyx sprays
Pears	Powdery mildew	1 1/2-4 gals.	Cover sprays
	Rust mite	3-5 gals.	Dormant, delayed dormant and post harvest sprays. Use with 4-6 gals. of superior type spray oil. Follow spray oil manufacturer's directions.
	Red spider mite	2-4 gals.	Cover sprays.
DO NOT USE GOWAN SULFUR 6F ON COMICE OR D'ANJOU PEARS. ON APPLES, CHECK SPECIFIC VARIETAL TOLERANCE TO SULFUR PRIOR TO USING.			
Almonds	Brown rot Scab	2 1/2-5 gals.	Pink bud, bloom and petal fall.
Avocadoes ✓	Brown mites	5 gals.	Apply when mites first appear.

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Blackberries Blueberries Boysenberries Currants Dewberries Gooseberries Huckleberries Loganberries Raspberries	Powdery mildew	2½ gals.	Apply when disease first appears and repeat as necessary.
Cherries Plums Prunes	Powdery mildew Brown rot blossom and twig blight Leaf spot Peach scab Silver mite Flat mite Red spider mite	3-4 gals. 1½-4 gals.	Pink bud and bloom sprays. Petal fall and cover sprays. Follow local guidelines for sulfur dosages and timing.
Citrus (Grapefruit, lemons, limes, oranges, tangelos, tangerines)	Rust mite Clover mite Thrips	2-5 gals. 1-2 gals.	Apply when mites first appear. Spray when spring flush is at 3-4 inches of growth and repeat as necessary.
Grapes (Raisin, table, wine)	Powdery mildew	7-8 pints	Make first application when shoots are 6-8 inches long and repeat at 10-14 day intervals as necessary throughout the season. Ground application is preferred.
	Bud mite Blister mite Red spider mite	1½ gal.	Apply at budburst.
Mangoes	Powdery mildew	5 gals.	Apply before flowering and repeat at 20 day intervals if necessary.
Peaches Nectarines	Powdery mildew Brown rot blossom and twig blight Leafspot Scab	2-4 gals. 1½-4 gals. 2½-4 gals.	Pink bud and bloom sprays. Petal fall and cover sprays. Shuck split through preharvest.
DO NOT APPLY DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURES. ON NECTARINES, APPLICATIONS TO MATURE FRUIT MAY CAUSE DISCOLORATION. APPLICATION IN COMBINATION WITH IMIDAN AND/OR OMITE MAY CAUSE DAMAGE.			
Pistachios	Citrus flat mite	3½-4.75 gals.	Apply when mites first appear.

Strawberries	Powdery mildew	1 gal.	Apply at first sign of infection and repeat at 10-14 day intervals. If strawberries are grown for canning, discontinue applications well before harvest in accordance with local canner's recommendation.
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Walnuts	Almond mite Pacific mite Red spider mite Two spotted mite	3 1/2 gals.	Apply when mites first appear.
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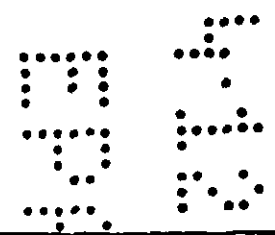
Field and Row Crops

Barley Corn Rye Wheat Oats Sorghum	Atlantic mite Pacific mite Red spider mite Two spotted mite Powdery mildew	2 1/2 gals. 1 gal.	Except California Begin applications at first sign of disease presence and continue treatments at 7-10 day intervals or as necessary.
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Beans dry colored green snap lima	Powdery mildew Leaf spot	4-9 pints	Apply at first sign of disease and thereafter as necessary.
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Broccoli Brussels Sprouts Cabbage Cauliflower Collards Kale Mustard Greens Peppers Rutabagas Turnips	Powdery mildew	7 pints	Apply at early leaf stage and thereafter as necessary.
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Carrots	Powdery mildew Petrobia mite	13 pints	Apply at early leaf stage and repeat every 2 weeks as necessary. Do not use within 30 days of a carrot oil application (weed oil).
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Cotton	Atlantic mite Red spider mite	2 pints 1 gal.	Early season Mid to late season
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Garlic	Powdery mildew	1 gal.	
Onions	Petrobia scale		
Peanuts	Rust	2-4 pints	Begin application 40-60 days after planting. Apply every 1 to 2 weeks as needed.
	Powdery mildew	7 pints	Begin at early leaf stage.
	Leaf spot		Repeat as needed at 18 day intervals.
	Red spider mite		
Potatoes	Powdery mildew	3-4 pints	
Soybeans	Powdery mildew	2 gals.	Apply at early leaf stage.
	Leaf spot		Repeat every 2 weeks as necessary.
Sugar beets	Powdery mildew	1-1½ quarts	One to two repeat applications at 10-30 day intervals may be necessary. Apply when disease first appears.
Tomatoes	Russet mite	½-1 gal.	Apply when mites first appear.

Ornamentals

Asters, Carnations, Cosmos, Crepe Myrtle, Dahlia, Delphinium, Gladiolus, Lingustrum, Sunflowers, Sweet Peas, Violets, Zinnias. Powdery Mildew

Calendula, Cherry Laurels, Hollyhock, Simflax. Leaf Spot and Powdery Mildew

Clematis, Columbine, Ivy(English), Laurel, Petunia, Sage. Leaf Spot

Roses (field grown roses only) Powdery mildew, Leaf Spot

Apply 7 pints in 100 gallons of water for hand gun applications, or 1 gallon per acre in conventional ground equipment. Treat when disease first appears.

Notice on Conditions of Sale

Our recommendations for use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials.

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