

57032-14

6-20-2002

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Chemical, Inc.

Micro-Sul Dusting Sulfur O

ACTIVE INGREDIENT:

Sulfur 90.00%

INERT INGREDIENTS: 10.00%

TOTAL 100.00%

Net Weight 50 pounds (22.68 kgs.)

EPA Reg. No. 051032-14

EPA Est. No. 051032-CA-01

KEEP OUT OF REACH OF CHILDREN!

CAUTION

FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

IF IN EYES:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • Take off contaminated clothing immediately. • Rinse skin immediately with plenty of water for at least 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF INHALED:	<ul style="list-style-type: none"> • Remove person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	<ul style="list-style-type: none"> • 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 a Poison Control Center or doctor.

PRECAUTIONARY STATEMENT

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed, inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid breathing vapor, dust or spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

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, long pants, chemical-resistant gloves made of any waterproof material, shoes plus socks and protective eyewear. Follow manufacturers' instructions for cleaning and maintaining PPE. If no instructions are provided for washables, use detergent and hot water. Keep all contaminated clothing and PPE separate from other laundry while cleaning.

USER SAFETY RECOMMENDATIONS: Users should always wash hands after handling chemicals and before eating, drinking, chewing gum, using tobacco or using the toilet.

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 apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

PHYSICAL HAZARD

Sulfur dust suspended in air ignites easily. Keep away from heat, sparks or flame. Burning sulfur emits highly toxic fumes. Do not smoke while applying this product. Avoid creating dust in handling. Keep from contact with oxidizing materials. In Case of Fire, use water spray, fog, CO₂, or sand. Wear NIOSH approved self-contained breathing apparatus

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 green houses, 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), restricted-entry interval. The requirements in this box 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, chemical-resistant gloves made of any waterproof material, shoes plus socks and protective eyewear.

PRODUCT INFORMATION

Micro-Sul Dusting Sulfur O may be applied with ground equipment or aircraft depending upon local conditions. Some crops may be damaged by sulfur under certain climatic conditions, such as when the temperature is high. Applications of sulfur should not be made just prior to or during periods of high summer temperatures. Do not make applications within 2 weeks (for citrus 21 days) of an oil spray. Crops grown in greenhouses may be more sensitive to sulfur injury, so the lowest labeled rate (or below labeled rates) should be tried initially. Do not allow this material to drift onto sulfur sensitive crops such as Apricots, Cucumbers, d'Anjou pears, Melons, Squash, or other plants, which may be injured by sulfur. When growing crops for processing, consult the processor before applying sulfur.

Note: The application rates specified for each crop are the maximum that should be applied. These amounts may be reduced if experience or local practice indicate that lesser amounts may be effective. Do not use on any crop unless sulfur has been shown to be safe in your locality. Consult your State Agricultural Experiment Station or Extension Specialist for advice in selecting treatments from this label to best fit your local conditions.

APPLICATION INSTRUCTIONS

Dust Micro-Sul Dusting Sulfur O uniformly, without dilution, to the foliage when air is calm. Timing and dosage may vary as a result of local weather conditions. The best hours for dusting are usually between 5:00 p.m. and 9:00 a.m. and when the wind velocity is less than 5 miles per hour. To assure good control of mites, dust lower leaf surfaces.

Micro-Sul Dusting Sulfur O can also be mixed and applied with liquid fertilizer or water. Micro-Sul Dusting Sulfur O can be applied through any type of handheld, knapsack, mechanical or pneumatic spraying equipment.

MIXING: Pour the required amount of Micro-Sul Dusting Sulfur O into the indicated amount of water while stirring. Unless otherwise noted, the recommended mixing application rates are as follows:

Dilute Application:

Field: Specified rate in 20 to 60 gallons of water per acre.
Orchard: Specified rate in 100 to 800 gallons of water per acre.

Concentrated Application:

Field: Specified rate in 5 to 10 gallons of water per acre.
Orchard: Specified rate in 20 to 100 gallons of water per acre.

Aerial Application:

Field: Specified rate in 3 to 20 gallons of water per acre.
Orchard: Specified rate in 10 to 20 gallons of water per acre.

DO NOT STOP AGITATION WITH SULFUR IN SPRAY EQUIPMENT. SULFUR IS HIGHLY CORROSIVE, AND EQUIPMENT SHOULD BE CLEANED THOROUGHLY AFTER EACH DAY'S SPRAYING.

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, filtered water systems (upstream from filter), or hand move irrigation system (s). Do not apply this product through any other type of irrigation system.

Non-uniform distribution of treated water can result in crop injury, lack of effectiveness, or illegal pesticide residues in the crop.

If you have questions about calibration, you should contact State Extension Services 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 device for public water systems is 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.

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Public water system means a system for the provision to the public or piped water for human consumption if such system has at least 15 service connections or regularly services 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. At 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 pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must 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.

The system must contain functional interlocking controls to automatically shut of 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.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

When mixing, fill nurse tank half full with water. Add Micro-Sul Dusting Sulfur O slowly to the tank while hydraulic or mechanical agitation is operating and continue filling with water. Stickers, spreaders, insecticides, nutrients, etc., should be added last. If compatibility is in question, use the compatibility jar test before mixing a whole tank. Because of the wide variety of possible combinations, which can be encountered, observe all cautions and limitations on the label of all products used in mixtures.

SPRINKLER CHEMIGATION

The system must contain a functional check valve, vacuum relief valve, and low-pressure drain approximately located on the irrigation pipeline to prevent water source contaminated from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.

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.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

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.

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.

Do not apply when wind speed favors drift beyond the area intended for treatment.

When mixing, fill nurse tank half full with water. Add Micro-Sul Dusting Sulfur O slowly to tank while hydraulic or mechanical agitation is operating and continue filling with water. Stickers, spreaders, insecticides, nutrients, etc., should be added last. If compatibility is in question, use the compatibility jar test before mixing a whole tank. Because of the wide variety of possible combinations, which can be encountered, observe all cautions and limitations on the label of all products used in mixtures.

Apply at rates specified on the container label for individual crops. Do not allow mixture to stand. Keep agitator running during application. Apply at end of irrigation period. Do not operate irrigation system after application until deposit has thoroughly dried.

Crop	Disease/Pest	Rate Lbs./Acre	Use Instructions
Alfalfa	Lygus, Atlantic Mite, Pacific Mite, Red Spider Mite	10-20	Repeat at 1-2 week intervals as necessary.
Almonds	Atlantic Mite, Brown Almond Mite, European Red Mite, Flat Mite, Pacific Mite, Red Spider mite, Silver Mite, Two-Spotted Mite	10-20	Apply at bloom or early petal fall or when disease threatens repeat as necessary usually at 10-14 day intervals or during rain periods.
	Brown Rot, Scab	8-30	
Apple (use on sulfur tolerant varieties only)	Blister Mite, Red Spider Mite, Powdery Mildew, Scab	10-20	Apply at prebloom and petal fall or when disease threatens.
Asparagus	Rust	10 - 20	Dust after cutting stops. Irrigate and cultivate before applying the sulfur. Repeat at 7-10 day intervals throughout season.
	Brown Mite, Two-Spotted Mite	6-10	Apply when mites first appear and repeat as necessary.
Avocado	Brown Mite	10-20	Apply when mites first appear and repeat as necessary.
Beans (May cause injury to some varieties of beans)	Powdery Mildew, Spider Mites, Thrips	6-10	Apply when pests or disease first appear and repeat as necessary. For disease control keep new growth protected. Consult local agricultural authorities as to the effectiveness of sulfur on Spider Mites in your area. Check tolerance prior to application.
	White Mold	10-20	
Blackberries, Blueberries, Boysenberries, Currants, Dewberries, Gooseberries, Huckleberries, Loganberries, Raspberries	Powdery Mildew	4-10	Apply at first sign of disease and repeat as necessary.

Crop	Disease/Pest	Rate Lbs./Acre	Use Instructions
Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Collards, Kale, Mustard	Powdery Mildew, Red Spider Mite	3-10	Begin at first sign of pest or disease repeat as necessary.
Carrots	Botrytis Blight, Petrobia Mite, Powdery Mildew	10-15	Begin at first sign of pest or disease repeat as necessary.
Celery	Early & Late Blight	3-10	Begin as soon as plants emerge. Repeat at 7 to 10 day intervals or as necessary.
Cereals: Corn, Wheat, Barley, Oats, Rye, Sorghum	Atlantic Mite, Grass Banks Mite, Pacific Mite, Two-Spotted Mite (small grains only) Powdery Mildew, Red Spider Mite	6-15	Apply when disease first appears or when mites appear on bottom leaves and repeat as necessary.
Cherries	Brown Rot, Blossom Blight, Cherry Leaf Spot, Coryneum Blight, Flat Mite, Powdery Mildew, Red Spider Mite, Rust, Silver Mite,	15-25	Use in bloom or early petal fall and repeat as necessary usually 10-14 day intervals or during rain periods when disease threatens. For Brown Rot, apply when fruit starts to ripen. Apply as a post-harvest foliar for Cherry Leaf Spot.
Citrus	Citrus Flat Mite, Citrus Mite, Flat Mite, Rust Mite, Red Spider Mite, Silver Mite, Six-spotted Mite, Yuma Spider Mite	4-30	Apply in any spray Not Containing Oil. Avoid applications during or preceding high temperatures. Do not use within 21 days of an oil spray treatment.
Clover	Powdery Mildew, Rust, Spider Mites	15 - 20	Begin when crop is in bud stage, or at first sign of disease or mites. Repeat at 7 to 10-day intervals or as necessary. Check tolerance prior to application.
Cotton	Atlantic Mite, Red Spider Mite Lygus	2-10 10-15	Apply when pests first appear and repeat at 1 to 2 week intervals as necessary. For disease control keep new growth protected.
Fig	Fig Rust Mite	15-30	Apply in spring and early summer when damage to foliage (russeting) appears. Repeat application is necessary.
Garlic	Botrytis Blight, Powdery Mildew, Petrobia Mite	10-15	Begin at first sign of disease. Repeat as necessary.
Grape	Blister Mite, Bud Mite, Powdery Mildew, Red Spider Mite	3-5	Make first application when shoots are 2 -3 in. long repeat before blossoms open and continue as necessary on 7-10 day cycle. Avoid over-applications in hot weather. Concord and other labrusca type grapes can be injured by sulfur.
Grass Seed Crops	Rust, Timothy Mites	3-6	Apply when mites or disease first appear and repeat as necessary.
Hops	Red Spider Mite	2-4	Apply when mites first appear and repeat as necessary.
Lettuce	Powdery Mildew, Rust, Spider Mite	5-6	Apply at early leaf stage or at first sign of disease. Repeat every 14 days as necessary.
Mangos	Powdery Mildew	10-30	Begin application before bloom, repeat at bloom, after fruit set and 3 weeks later or as necessary.
Melons, Squash (Sulfur resistant varieties only)	Powdery Mildew	2-4	Apply when disease first appears and repeat as needed. Check tolerance prior to application. Sulfur may injure plants when temperature reaches 95°F
Nectarines & Peaches	Brown Rot Blossom Blight, Coryneum Blight, Flat Mite, Leaf Spot, Powdery Mildew, Red Spider Mite, Rust, Silver Mite	15-25	Apply at bloom or early petal fall and repeat as necessary, usually 10-14 days or after a period of wet weather. Do not apply after jacket stag on Plumbs, Prunes or Nectarines. For brown rot control, apply when fruit starts to ripen.

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Crop	Disease/Pest	Rate Lbs./Acre	Use Instructions
Onion	Petrobia Mites, Botrytis Blight & Powdery Mildew	10-15	Begin at first sign of pest or disease repeat as necessary.
Peanuts	Leaf Spot, Powdery Mildew, Red Spider Mite, Rust	3-12	Apply at early leaf stage or when first spots appear on lower leaves.
Pears (use on sulfur tolerant varieties only)	Blister Mite, Red Spider Mite, Rust Mite, Pear Psylla, Powdery Mildew, Scab	10-20	Apply in dormant delayed dormant or post-harvest stages only. During clusterbud, reduce rate to 6 lbs/acre. DO NOT apply after bloom. (Do not apply to d'Anjou Pear)
Peas	Powdery Mildew, Spider Mites, Thrips	6-10	Apply when pests or disease first appear and repeat as necessary. Check tolerance prior to application.
	White Mold	10-20	
Pecans	Powdery Mildew, Red Spider Mite, Sooty Mold, Two-Spotted Mite	5-10	Apply throughout season as needed. Some varieties are sensitive to sulfur sprays under certain conditions. Do No apply unless varieties are know to be tolerant of sulfur.
Peppers	Botrytis Blight, Petrobia Mite, Powdery Mildew	10-15	Begin at first sign of disease. Repeat as necessary.
Pistachios	Citrus Flat Mites	10-20	Micro-Sul Dusting Sulfur O may be applied to non-bearing and bearing Pistachio trees up to the day of harvest. Begin application when mites first appear and repeat as necessary to maintain control.
Plums & Prunes	Brown Rot Blossom Blight, Coryneum Blight, Flat Mite, Leaf Spot, Powdery Mildew, Red Spider Mite, Rust, Silver Mite	15-25	Apply at bloom or early petal fall and repeat as necessary, usually 10-14 days or after a period of wet weather. Do not apply after jacket stag on Plums, Prunes or Nectarines. For Brown Rot control, apply when fruit starts to ripen.
Potatoes	Powdery Mildew, Red Spider Mite, Two-Spotted Mite	6-10	Apply at at early leaf stage. Repeat at 14 day intervals as needed.
Rutabagas	Powdery Mildew, Red Spider Mite	3-10	Begin application at early leaf stage. Repeat at 14-day intervals as necessary. Check tolerance prior to application.
Soybeans	Leaf Spot & Powdery Mildew	6-15	Begin application at first sign of disease repeat as necessary.
Spearmint Peppermint	Powdery Mildew	4-6	Apply when mint is 5-6" tall or when disease first appears. Repeat twice, at 30 day intervals. Do not apply within 30 days of harvest.
Strawberries	Powdery Mildew, Red Spider Mite	4-10	Apply at early leaf stage or when disease first appears and repeat as necessary. Check tolerance prior to application.
Sugar Beets	Atlantic Mite, Pacific Mite, Powdery Mildew, Red Spider Mite, Two-Spotted Mite	3-40	Apply when pests or disease first appear and repeat at 3-4 week or as necessary.
Table Beets	Powdery Mildew, Red Spider Mite	3-10	Apply at early leaf stage and repeat application every 14 days as needed.
Tomatoes	Powdery Mildew, Tomato Russet Mite	15-30	Begin application when symptoms first appear and repeat as necessary. Thorough coverage is required. If crop intended for canning or processing obtain permission from processor before using Micro-Sul Dusting Sulfur O.
Turnips	Powdery Mildew, Red Spider Mite	3-10	Begin application at early leaf stage. Repeat at 14-day intervals as necessary. Check tolerance prior to application.
Walnuts Macadamias	Almond Mite, Broad Mite, Red Spiders, Pacific Mite, Two-Spotted Mite	10-30	Apply throughout season as needed. Some varieties are sensitive to sulfur sprays under certain conditions. Do Not apply unless varieties are known to be tolerant to sulfur.

Crop	Disease/Pest	Rate Lbs./Acre	Use Instructions
Floriculture:			
Asters, Calendula, Carnations, Cedars, Cherry Laurels, Chrysanthemums, Cosmos, Crepe Myrtle, Dahlia, Delphinium, Dogwood, Euonymus, Gladiolus, Golden Fleese, Hibiscus, Holly, Hollyhock, Juniper, Lady's Mantle, Ligustrum, Lilac, Poplars, Silver Vine, Smilax, Spirea, Spruce, Sunflowers, Sweet Peas, Verbina, Violets, Willow, Zinnias	Powdery Mildew	5-6 lb/100 gal or (3 tablespoons per gallon)	Spray for full coverage, wetting both sides of leaves. Begin applications when new growth appears in the spring and repeat every 5-10 days as needed and after rain.
Calendula, Cedars, Cherry Laurels, Chrysanthemums, Clematis, Columbine, English Ivy, Hollyhock, Juniper, Laurel, Petunia, Sage, Smilax, Spruce	Leaf Spot	5-6 lb/100 gal or (3 tablespoons per gallon)	Spray for full coverage, wetting both sides of leaves. Begin applications when new growth appears in the spring and repeat every 5-10 days as needed and after rain.
Asters, Carnations, Hollyhock	Rust	5-6 lb/100 gal or (3 tablespoons per gallon)	Spray for full coverage, wetting both sides of leaves. Begin applications when new growth appears in the spring and repeat every 5-10 days as needed and after rain.
Roses	Black Spot, Powdery Mildew.	5-6 lb/100 gal or (3 tablespoons per gallon)	Spray for full coverage, wetting both sides of leaves. Begin applications when new growth appears in the spring and repeat every 5-10 days as needed and after rain.

STORAGE AND DISPOSAL

KEEP AWAY FROM FIRE AND SPARKS

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

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: Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Dispose of bags in a sanitary landfill or incinerate, or, if allowed by state and local authorities, by burning. If burned stay upwind of smoke.

Pesticide Storage: Keep out of reach of children and animals. Store in original container only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, fold and roll back bags, clamp and close tightly. Use caution when moving, opening, closing or pouring bags.

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WARRANTY AND DISCLAIMER: Hondo Chemical, Inc. warrants that this material 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 risks referred to therein. HONDO CHEMICAL, INC. MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL HONDO CHEMICAL, INC. OR SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, BUSINESS REPUTATION, OR CUSTOMERS; LABOR COST; OR OTHER EXPENSES INCURRED IN PLANTING OR HARVESTING.

Hondo Chemical, Inc. and 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 Hondo Chemical, Inc.

HONDO
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ACCEPTED
JUN 20 2002
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 51052-14