



THIOLUX[®] DRY FLOWABLE— MICRONIZED SULFUR

ACTIVE INGREDIENT:	BY WT.
Sulfur	80%
INERT INGREDIENTS:	20%
TOTAL	100%

KEEP OUT OF REACH OF CHILDREN CAUTION

See Additional Precautionary Statements
Avoid Breathing Spray Mist

EPA REG. NO. 55947-48-34704

EPA EST. NO. 36841-FR-01

NET WEIGHT 50 LBS. (22.68 KG)

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IHT 08G98

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if inhaled or absorbed through skin. Avoid breathing spray mist. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling.

Personal Protective Equipment:

Applicators and other handlers must wear: long-sleeved shirt and long pants, waterproof gloves, shoes plus socks and protective eyewear. Follow 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 statements:

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:
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.

STATEMENT OF PRACTICAL TREATMENT

If on skin: Wash with soap and plenty of water. Get medical attention.
If in eyes: Flush eyes with plenty of water for at least fifteen minutes and get medical attention.
If inhaled: Remove victim to fresh air.
FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-228-5635, EXT. 136, OR CALL COLLECT, 612-851-8180, EXT. 136.

ENVIRONMENTAL HAZARDS

For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water by cleaning of equipment and when disposing of equipment washwaters.

PHYSICAL AND CHEMICAL HAZARDS

Sulfur dust suspended in air ignites easily. Keep away from heat, sparks and flame. Do not smoke while applying this product.

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 and protective eyewear.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Must be stored under dry conditions.

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 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.

THIOLUX[®] is recommended for control of listed plant diseases, insects and spider mites on fruits, vegetables, and ornamentals when used as directed.

USE PRECAUTIONS

Some crops are susceptible to injury from sulfur under certain climatic conditions. The user is advised not to use on any crop unless local use has proven sulfur to be safe in that locality.

Sulfur may burn foliage or cause fruit injury when temperatures are excessively high. Do not apply at such times. Do not apply to or allow spray to drift on sulfur sensitive plants such as apricots, cranberries or spinach. Apply only to dormant Anjou pears. Do not use within two (2) weeks of an oil treatment, except for dormant sprays on pears and apples. For citrus, do not apply within 21 days of an oil application. Follow all other label

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directions or precautions as indicated.
 When growing crops for processing consult processor before applying sulfur.

DIRECTIONS FOR APPLICATION

Fill spray tank half full with water. Pour needed amount into spray tank under agitation. If necessary, add a few drops of oil to avoid foaming. Maintain agitation throughout spray operation. Use lower recommended rates on following host and pest recommendation table when using concentrate equipment. Use higher rates when using dilute applications.

Dilute Application: Ground Application: Apply specified rate in 20 to 60 gallons of water per acre. Orchard Application: Apply specified rate in 100 to 800 gallons of water per acre.

Concentrate Application: Ground Application: Apply specified rate in not less than 5 gallons of water per acre. Orchard Application: Apply specified rate in 20 to 100 gallons of water per acre. Special concentrate equipment is necessary for these uses.

Aerial Application: Apply specified rate in 3 to 20 gallons of water per acre. Orchard rates should not be applied in less than 10 gallons of water per acre.

Chemigation: THIOLUX® may be applied through sprinkler systems including center pivot, lateral move, end tow, side wheel roll, traveler, big gun, solid set, and hand move. Do not apply THIOLUX through any other type of irrigation system. Do not apply THIOLUX through any irrigation system when wind speed favors drift beyond the area intended for treatment.

Crop injury or lack of effectiveness can result from uneven distribution of treated irrigation water. For center pivot systems, apply during one full revolution of the system. For other systems listed above (i.e., portable or solid set systems), apply during the final 15 minutes of the irrigation period. Maintain proper agitation in the THIOLUX supply tank. Do not operate irrigation system after application until deposit has thoroughly dried. If you have questions about system operation or calibration, contact State Extension Service specialists or chemigation equipment manufacturers. 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. Do not connect an irrigation system (including greenhouses systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

THE FOLLOWING PRECAUTIONS MUST BE OBSERVED WHEN APPLYING PESTICIDES AND PLANT NUTRIENTS THROUGH IRRIGATION SYSTEMS: SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS:

- Public water systems means any system for provision to the public of piped water for human consumption is 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 pesticide injection system 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 off the pesticide injection pump when the water pump motor stops, or in cases where there is not 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 pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

SPRINKLER CHEMIGATION APPLICATIONS:

- The system 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.
- 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.

Crops	Pest	Lbs. per Acre
ALMONDS, CHERRIES, NECTARINES, PLUMS, PRUNES, PEACHES Apply at bloom or early petal fall. Repeat as necessary, usually 10 to 14 days after a period of wet weather. For brown rot of fruit, apply when fruit starts to ripen. For rust of peaches and prunes, apply any time from late spring to fall in a preventative program.	Brown rot blossom blight, Brown rot blossom blight, Cherry leafspot, Powdery mildew, Rust, Scab, Leafspot, Silver mite, Flat mite, Red spider mite	10 to 30
APPLES, PEARS Dormant applications with oil may be made to apples and pears. Apply only to dormant Anjou pears. Apply pre-bloom and petal fall. Apply with cover sprays throughout the season.	Powdery mildew, Scab, Blister mite, Red spider mite	10 to 30
ASPARAGUS Use after cutting stops. Irrigate and cultivate before applying; repeat at 7 to 10 day intervals throughout the season.	Rust	10 to 30
AVOCADOS Apply as needed.	Brown mite	10 to 30
BEANS, PEAS, POTATOES, RUTABAGAS, TURNIPS Begin applications in early leaf stage. Repeat application every 10 to 14 days with or without pesticides immediately after a rain.	Powdery mildew, Rust, Red spider mite	3 to 10
BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CAULIFLOWER, COLLARDS, KALE, PEPPERS Begin applications in early leaf stage. Repeat application every 10 to 14 days with or without pesticides immediately after a rain.	Powdery mildew, Rust, Red spider mite	3 to 5
BLACKBERRIES, BOYSENBERRIES, GOOSEBERRIES, LOGANBERRIES Begin application when new shoots are 6 inches long and before blossoms open or when disease first appears. Repeat at 7 to 10 day intervals or as necessary.	Powdery mildew	6 to 15
BLUEBERRIES, CURRANTS, DEWBERRIES, HUCKLEBERRIES Begin application when new shoots are 6 inches long and before blossoms open or when disease first appears. Repeat at 7 to 10 day intervals or as necessary.	Powdery mildew	5 to 10
CARROTS, ONIONS, GARLIC Apply when the disease first appears and repeat as needed.	Petrobia mite and Powdery mildew	3 to 10
CITRUS Apply in any spray—NOT CONTAINING OIL—following oil by 21 days.	Flat mite, Silver mite, Rust mite, Bud mite, Red spider mite, Six spotted mite, Thrips, Yuma spider mite	8 to 20
CORN, BARLEY, OATS, RYE, SORGHUM, SOYBEANS, WHEAT Apply when disease first appears and repeat as necessary or with the regularly scheduled insect program.	<i>Suppression</i> - Red spider mite, Two-spotted mite, Grass banks mite, and Pacific mite; <i>Control</i> - Atlantic mite (small grain only) and for control of Powdery mildew (soybeans only)	6 For soybeans 7.5 to 12.5
COTTON, ALFALFA Apply as needed.	Atlantic mite, Red spider mite	3 to 5

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Crops	Pest	Lbs. per Acre
CUCURBITS Apply when the disease first appears. Repeat at 10 to 14 day intervals or as necessary throughout the growing season. Sulfur can injure plants, especially when temperatures reach 95°F. Do not use on sulfur sensitive varieties.	Powdery mildew	Cucumbers 4 to 6 Melons 6 to 15 Squash 4 to 10
GRAPES Begin application in late dormant or with cutworm spray, early shoot period and through season on 14 day schedule or with pesticides.	Powdery mildew, Bud mite, Blister mite, Red spider mite	6
MANGOS Begin applications before bloom, repeat in-bloom, after fruit set and 3 weeks later or as necessary.	Powdery mildew	10 to 30
PEANUTS Begin application in early leaf stage. Repeat applications as necessary, usually in 10 to 24 days.	Rust, Red spider mite, Leaf spot	3 to 5
PISTACHIOS Begin application when mites are first detected. Repeat applications as necessary.	Citrus flat mite	10 to 30
RASPBERRIES Apply weekly starting at first bloom color. Continue through out fruit set; then repeat as weather requires.	Powdery mildew	6 to 15
SPEARMINT, PEPPERMINT Apply when mint is 5-6" tall or when disease appears. Repeat twice at 30 day intervals. Do not apply within 30 days of harvest.	Powdery mildew	4 to 6
STRAWBERRIES Begin application in early leaf stage, repeat application with or without pesticides. For Powdery mildew, begin at first signs of disease and repeat as necessary. Do not use on sulfur sensitive varieties.	Powdery mildew, Red spider mite	5 to 10
SUGAR BEETS Apply at 10 to 30 day intervals with or without other pesticides as soon as the first symptoms appear.	Powdery mildew, Red spider mite	10 to 20
TABLE BEETS Apply at 10 to 30 day intervals with or without other pesticides at first symptoms.	Powdery mildew, Red spider mite	3 to 5
TOMATOES Apply at first symptoms. Thorough coverage is required.	Russet mite, Powdery mildew	6 to 20
WALNUTS Apply and repeat as necessary throughout season as necessary. Tank mix with chemical mite sprays to increase effectiveness. CAUTION: Certain varieties of walnuts are sensitive to sulfur sprays under certain conditions. Do not apply unless the varieties are known to be tolerant of sulfur.	Pacific mite, Almond mite, Two-spotted mite, Red spider mite	10 to 20

ORNAMENTALS, GRASS SEED PRODUCTION

ORNAMENTALS all (see below for host and pest) Apply as aqueous spray for complete plant coverage. Begin when disease first appears and repeat at 5 to 10 day intervals.		Ground 3 to 10 Air 3 to 20
ASTERS, CARNATIONS, COSMOS, CREPE MYRTLE, DAHLIA, DELPHINIUM, GLADIOLUS, LIGUSTRUM, SUNFLOWERS, SWEET PEAS, VIOLETS, ZINNIAS	Powdery mildew	

Crops	Pest	Lbs. per Acre
CALENDULA, CHERRY LAURELS, CHRYSANTHEMUM, HOLLYHOCK, SMILAX	Leaf spot and Powdery mildew	
CLEMATIS, COLUMBINE, ENGLISH IVY, LAUREL, PETUNIA, SAGE	Leaf spot	
ROSES	Powdery mildew and Black spot.	
GRASS GROWN FOR SEED Apply in tank mix with TILT® Fungicide for enhanced control of rusts. Begin applications when rust pustules are evident and increasing in number from late spring through early summer. Do not exceed 12 lbs./A THIOLUX per season. Read and follow all application rates and use precautions on companion fungicide label. Do not apply this tank mix through any irrigation system.	Rust	3 to 5

NOTICE

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 THE MANNER OF USE OR APPLICATION, ALL OF WHICH ARE BEYOND THE CONTROL OF PLATTE, THE MANUFACTURER OR SELLER. IN NO CASE SHALL PLATTE, THE MANUFACTURER OR SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER.

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FORMULATED FOR
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