



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

May 24, 2017

Solito Sumulong
Manager of Registrations
Loveland Products, Inc.
PO Box 1286
Greeley, CO 80632-1286

Subject: Label Amendment – Adding me-too crops, minor label updates, adding supplemental label
Product Name: Thiolux
EPA Registration Number: 34704-1079
Application Date: 11/11/2016
Decision Number: 523833

Dear Mr. Sumulong:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

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with FIFRA section 6. If you have any questions, please contact Lisa Pahel by phone at (703) 347-0459, or via email at pahel.lisa@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Shaja Joyner".

Shaja Joyner, Acting Product Manager
24
Fungicide and Herbicide Branch
Registration Division (7505P)
Office of Pesticide Programs

Enclosure



ACCEPTED

05/24/2017

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 34704-1079

GROUP M2 FUNGICIDE

THIOLUX®

Fungicide — Miticide



ACTIVE INGREDIENT:

Sulfur*	BY WT
OTHER INGREDIENTS:	80.0%
	20.0%
	TOTAL 100.0%

*CAS No. 7704-34-9

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

FIRST AID: **If swallowed:** 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 the poison control center or doctor. Do not give anything to an unconscious person. **If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. **If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice. **If in eyes:** Hold eye open and rinse slowly and gently with water for 15 to 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. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. **FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT, CALL: 1-866-944-8565.**

EPA REG. NO. 34704-1079
EPA EST. NO. 70905-IND-1
NET WEIGHT 30.0 LB (13.6 KG)
EXP 1116

FORMULATED FOR
LOVELAND PRODUCTS, INC.®, P.O. BOX 1286, GREELEY, COLORADO 80632-1286

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some materials that are chemical-resistant to this product are listed below.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants,
- Chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride,
- Shoes plus socks, and
- Protective eyewear.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, 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)], 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/PPE 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 equipment washwaters or rinsate. Do not apply when weather conditions favor drift from treated areas. Do not apply where run-off is likely to occur.

PHYSICAL HAZARDS

Sulfur dust suspended in air ignites easily. Keep away from heat, sparks, or flames. 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,
- Chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride,
- Shoes plus socks and
- Protective eyewear.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the WPS for agricultural pesticides [40 CFR Part 170]. The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Keep unprotected persons and domestic animals out of the treated area until sprays have dried.

PRODUCT INFORMATION

Sulfur may cause severe fruit and foliage injury to certain crops. Sulfur sensitive plants include D'Anjou and Comice pears, apricots, cranberries, certain varieties of cucurbits, filberts, spinach, tung walnuts, and certain ornamentals. Apples, pears and strawberries are susceptible to foliage burn with sulfur under certain climatic conditions. Sulfur may burn foliage when temperature is high.

Restrictions

DO NOT apply if temperatures during or within 3 days after application are expected to exceed 90 °F.

DO NOT use within 2 weeks of an oil spray treatment except for dormant, delayed dormant or postharvest applications with a suitable spray oil. **For citrus, do not apply within 21 days of an oil spray.** When growing crops for processing, consult the processor before applying sulfur.

For tank mixtures: DO NOT mix with any product which contains a prohibition on tank mixing, and follow more restrictive labeling of any tank mix partner. Pour the specified amount of product into water and stir to make a thin slurry. Add slurry to tank when partially full before other materials are added. Add wetting agents last to avoid foaming. Keep spray mixture agitated while spraying.

Apply to crops as needed in season when Mites or diseases first appear and when insect buildup and plant disease damage are imminent. Repeat as directed. Use the lower rate when disease or insect pressure is low. Use the higher rate when disease or insect pressure is severe.

DIRECTIONS FOR DILUTION

Dilute Application: Ground application: Apply specified rate in 20.0 to 60.0 gallons of water per acre. **Orchard application:** Apply specified rates in 100 to 800 gallons of water per acre.

Concentrate Application: Ground application: Apply specified rate in not less than 5.0 gallons of water per acre. **Orchard application:** Apply specified rate in 20.0 to 100 gallons of water per acre. Special concentrate equipment is necessary for these uses.

Aerial Application: Apply specified rate in 3.0 to 20.0 gallons of water per acre.
Restriction: DO NOT make applications to orchards using less than 10.0 gallons of water per acre.

CROP USE DIRECTIONS

Alfalfa (including seed alfalfa): Atlantic mite, Red spider mite – Apply 12.0 to 25.0 pounds Thiolux® per acre throughout season as necessary.

Almonds, Cherries, Nectarines, Peaches, Plums, Prunes: Brown rot, Flat mite, Leaf spot, Powdery mildew, Red spider mite, Silver mite – Apply 10.0 to 20.0 pounds Thiolux per acre. For Brown rot, spray when fruits start ripening. For remaining pests and diseases, apply at bloom or early petal fall and repeat as necessary, usually 10 to 14 days or after a period of wet weather.

Apples, Pears, Quince: pre-bloom and petal fall: Blister mite, Pear psylla, Powdery mildew, Red spider mite, Scab – Apply 10.0 to 20.0 pounds Thiolux per acre. Apply with cover sprays throughout the season.
Restriction: DO NOT apply to d'Anjou pears.

Apples, Pears: dormant, delayed dormant, or postharvest: Blister mite, Pear psylla, Red spider mite, Two-spotted mite – Apply 10.0 to 20.0 pounds Thiolux per acre with a suitable spray oil postharvest and during the dormant periods of bud development **DO NOT** apply to sensitive varieties of pears except at these stages.

Artichokes: Leaf spot, Powdery mildew – Apply 10.0 to 20.0 pounds Thiolux per acre. Begin at first sign of disease and repeat applications at a 7- to 10-day interval.

Asparagus: Rust – Apply 10.0 to 30.0 pounds Thiolux per acre. Use after cutting stops. Irrigate and cultivate before applying. Repeat at a 7- to 10-day interval throughout the season.

Avocados: Brown mite – Apply 10.0 to 30.0 pounds Thiolux per acre when Mites are first noticed and as needed thereafter.

Bananas: Mites – Apply 10.0 to 30.0 pounds Thiolux per acre. Begin applications at first sign of disease and reapply as needed.

Barley, Corn, Oats, Rye, Sorghum, Wheat: For suppression of Grass banks mite, Pacific mite, Red spider mite, Two-spotted mite and for control of Atlantic mite (Small Grains only) – Apply 6.0 to 15.0 pounds Thiolux per acre when insect pressure is imminent and repeat spray as necessary or apply with the regularly scheduled pest control program.

Beans, Peas: Mite leaf spot, Powdery mildew, Red spider mite, Rust – Apply 3.0 to 10.0 pounds Thiolux per acre. Start in early leaf stage. Repeat application every 10 to 14 days with or without pesticides immediately after a rain.

Blackberries, Boysenberries, Dewberries, Loganberries, Raspberries: Powdery mildew (Red berry mite raspberries only) – Apply 6.0 to 12.0 pounds Thiolux per acre. Begin application before blossoms open and repeat at a 10-day interval as necessary.

Blueberries, Currants, Gooseberries, Huckleberries: Powdery mildew – Apply 6.0 to 15.0 pounds Thiolux per acre beginning when disease first appears. Repeat at a 7- to 10-day interval or as necessary.

Broccoli, Brussels sprouts, Cabbage, Cauliflower: Powdery mildew, Red spider mite, Rust – Apply 3.0 to 10.0 pounds Thiolux per acre starting in early leaf stage. Repeat applications every 10 to 14 days with or without pesticides immediately after a rain.

Carrots: Petrobia mite, Powdery mildew – Apply 3.0 to 10.0 pounds Thiolux per acre. Apply at early leaf stage and repeat application every 14 days as needed.

Celery: Powdery mildew, Red spider mite and Rust – Apply 4.0 to 6.0 pounds Thiolux per acre. Apply at early leaf stage and repeat applications at a 7- to 10-day interval, as needed.

Citrus: Bud mite, Flat mite, Red spider mite, Rust mite, Silver mite, Six-spotted mite, Thrips, Yuma spider mite – Apply 8.0 to 20.0 pounds Thiolux per acre. Apply in any spray NOT CONTAINING OIL or following oil by 21 days.

Clover: Mites, Powdery Mildew. Apply 2.0 to 9.0 pounds of Thiolux per acre.

Cotton: Atlantic mite, Red spider mite – Apply 5.0 to 10.0 pounds Thiolux per acre throughout season as necessary.

Cowpeas: Rust – Apply 2.0 to 9.0 pounds Thiolux per acre. Begin applications as soon as seedlings emerge and repeat at a 7- to 10-day interval as needed.

Cucurbits: Powdery mildew – Apply when the disease first appears and repeat as necessary throughout the growing season at 10- to 14-day intervals. Sulfur can injure plants, especially when temperatures exceed 95 °F.
Restriction: DO NOT use on sulfur sensitive varieties.

Cucumbers: Apply 2.0 to 6.0 pounds Thiolux per acre.

Melons: Apply 20.0 to 25.0 pounds Thiolux per acre.

Squash: Apply 5.0 to 10.0 pounds Thiolux per acre.

Dates: Banks grass mite – Apply 20.0 pounds of Thiolux per acre. Begin applications when Mites or Mite webbing is noticed and apply every 14 days as necessary until dates are mature and no more feeding occurs. Apply in sufficient water to provide thorough coverage of date clusters.

Eggplant: Powdery mildew – Apply 2.0 to 5.0 pounds Thiolux per acre. Begin applications when first true leaves appear. Repeat applications on a weekly basis as needed.

Endive, Swiss Chard, Salsify: Powdery Mildew, Red Spider Mite, Rust – Apply 4.0 to 6.0 pounds of Thiolux per acre at early leaf stage and repeat every 10 to 14 days or as needed.

Figs (California Only): Eriophyid mite, Fig rust mite – Apply 4.0 to 6.0 pounds Thiolux per acre beginning in April and continuing on a 3- to 4-week schedule until June.

Garlic, Onions: Petrobia mites, Powdery mildew – Apply 3.0 to 10.0 pounds Thiolux per acre at early leaf stage and repeat application every 14 days as needed.

Grapes: Blister mite, Bud mite, Powdery mildew, Red spider mite – Apply 3.0 to 10.0 pounds Thiolux per acre in late dormant or with Cutworm spray, early shoot period and through season on a 14-day schedule or with pesticides.

Grass Seed Crops: Mites and Rust – Apply 5.0 to 10.0 pounds Thiolux per acre when Mites appear and repeat on a 7- to 10-day schedule. For Rust control, a tank mix with a triazole fungicide such as propiconazole is recommended.

Greens- Turnip, Collards, Kale and Mustard Greens: Powdery mildew, Red Spider Mite, Rust, Septoria Leaf Spot – Apply 3.0 to 10.0 pounds of Thiolux per acre at early leaf stage and repeat every 14 days or as needed.

Hops: (Not for use in CA) Red spider mite – Apply 2.0 to 6.0 pounds Thiolux per acre when Mites appear and repeat every 14 days or as needed to maintain control. Powdery mildew - Apply 4.0 to 6.0 pounds Thiolux per acre when new shoots emerge and repeat every 14 days throughout the season.

Kava: (HI only) (Awa, Kawa) Carmine spider mites – Apply 8.0 to 20.0 pounds Thiolux per acre in sufficient water to cover entire plant leaf surface. Apply as a dilute spray in a minimum of 100 gallons per acre. For severe infestations, apply on a 7- to 10-day schedule. Once control is obtained, apply on a 14- to 21-day schedule.

Lettuce: Head and Leaf: Powdery mildew, Red spider mite, Rust – Apply 5.0 to 10.0 pounds Thiolux per acre at early leaf stage and repeat every 14 days as needed. Thorough coverage is required.

Mangoes: Powdery mildew – Apply 10.0 to 30.0 pounds Thiolux per acre starting before bloom. Repeat in bloom after fruit set and 3 weeks later or as necessary.

Okra: Leaf spot, Mites, Powdery mildew – Apply 3.0 to 10.0 pounds Thiolux per acre. Apply at early leaf stage and repeat every 14 days as needed.

Olive: Olive mite – Apply 10.0 to 30.0 pounds of Thiolux per acre. Apply as needed.

Papaya (HI only): Mites (including Broad mites, Flat mites, and Spider mites, except Carmine mites) – Apply 8.0 to 26.0 pounds Thiolux per acre when Mites first appear and repeat applications as necessary to maintain control.

Restriction: **DO NOT** tank mix with EC (emulsifiable concentrate) formulations of other pesticides as foliar injury is likely to occur. **DO NOT** apply to weak or moisture stressed trees. Avoid applications during periods of excessively high temperatures or periods of low rainfall.

Peanuts: Leaf spot, Powdery mildew, Red spider mite – Apply 5.0 to 8.0 pounds Thiolux per acre. Start in early leaf stage. Repeat applications as necessary.

Pecans (Not for use in California): Powdery mildew, Red spider mite, Sooty mold, Two-spotted mite – Apply 10.0 to 20.0 pounds Thiolux per acre at bloom or early petal fall. Repeat as necessary.

Peppers: Powdery mildew, Red spider mite – Apply 3.0 to 10.0 pounds Thiolux per acre beginning at the initial stage of vegetation and repeat every 14 days as needed.

Peppermint, Spearmint: Powdery mildew – Apply 4.0 to 6.0 pounds Thiolux per acre when mint is 5 to 6 inches tall or when disease first appears. Repeat twice at 30-day intervals. **DO NOT** apply within 30 days of harvest.

Pineapple (HI only): Mites – Apply 10.0 to 30.0 pounds Thiolux per acre when Mites first appear and repeat applications as necessary to maintain control.

Pistachios: Citrus flat mite – Apply 20.0 to 25.0 pounds Thiolux per acre when Mites first appear. Repeat as necessary. When temperatures exceed 90 °F, lower rates and make more frequent applications to avoid crop injury.

Pomegranates: Mites – Apply 3.0 to 10.0 pounds Thiolux per acre. Begin applications in late spring/early summer when Mites begin to appear. Make additional applications on a 3- to 4-week schedule or as necessary. When temperatures are at or exceed 95 °F, reduce rates and apply on a more frequent schedule to avoid possible crop injury.

Potatoes, Sweet Potatoes: Powdery mildew, Red spider mite – Apply 3.0 to 10.0 pounds Thiolux per acre at early leaf stage and repeat every 14 days as needed.

Soybeans: Leaf spot, Powdery mildew – Apply 6.0 to 15.0 pounds Thiolux per acre when disease first appears and repeat as necessary or with the regularly scheduled insect control program.

Strawberries: Powdery mildew, Red spider mite. – Apply 5.0 to 10.0 pounds Thiolux per acre. For Mites, start in early leaf stages. For Powdery mildew, begin at first signs of disease and repeat as necessary.

Restriction: **DO NOT** use on sulfur-sensitive varieties.

Sugar Beets: Powdery mildew, Red spider mite – Apply 10.0 to 20.0 pounds Thiolux per acre at first indication of problem with or without other pesticides. Repeat at 10- to 30-day intervals as necessary.

Table Beets: Powdery mildew, Red spider mite - Apply 3.0 to 5.0 pounds Thiolux per acre as soon as symptoms appear and repeat every 2 to 3 weeks as necessary.

Tomatoes: Powdery mildew, Russet mite, Two-spotted mite – Apply 3.0 to 10.0 pounds Thiolux per acre at onset of symptoms. For Russet mite, apply 10.0 to 20.0 pounds per acre. Thorough coverage is required.

Turnips, Parsnips, Horseradish, Radish, Rutabagas: Powdery Mildew, Red Spider Mite – Apply 3.0 to 10.0 pounds of Thiolux per acre at the early leaf stage and repeat every 14 days as needed.

Walnuts, Macadamia Nuts (Hawaii): Pacific mite, Almond mite, Two-spotted mite – Apply 10.0 to 20.0 pounds Thiolux per acre throughout the season as needed. Certain varieties of walnuts are sensitive to sulfur sprays under certain conditions.

Restriction: **DO NOT** apply unless the varieties are known to be tolerant to sulfur in your area.

Ornamentals: (Ground Application) Apply 3.0 to 10.0 pounds Thiolux in 100 gallons of water per acre. **(Aerial Application)** Apply 3.0 to 20.0 pounds Thiolux per acre in a minimum of 10.0 gallons of water per acre. Ensure complete plant coverage. Begin when disease first appears and repeat at a 5- to 10-day interval.

Asters, Carnations: For control of Powdery mildew.

Calendula, Cherry Laurels, Chrysanthemum, Hollyhock, Smilax: For control of Leaf spot and Powdery mildew.

Clematis, Columbine, Ivy (English), Laurel, Petunia, Sage: For control of Leaf spot.

Cosmos, Crepe Myrtle, Dahlia, Delphinium, Gladiolus, Ligustrum, Sunflowers, Sweet Peas, Violets, Zinnias: For control of Powdery mildew.

Roses: For control of Powdery mildew and Black spot.

Turfgrass (Commercial turf and grass including golf courses, parks, athletic fields, sod farms): Fusarium patch (suppression), Powdery mildew, Rust, Take-all (suppression) **(Ground Application)** – Apply 3.0 to 10.0 pounds Thiolux per acre in 20.0 to 60.0 gallons of water. Make applications at the first sign of disease or when climatic conditions favor disease development. Repeat applications as needed. Tank mixes with systemic fungicides will improve control and aid in prevention resistance from developing.

CHEMIGATION APPLICATION

Instructions: Only apply this product through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system. Uneven distribution of treated irrigation water can result in crop injury or lack of effectiveness. Do not apply when wind speed favors drift beyond the area intended for treatment.

Contact State Extension Service Specialists, equipment manufacturers, or other experts if you have any questions about calibration. 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 the chemigation system to any public water system. A public water system means any system for provision to the public of piped water for human consumption if 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.

This product may be applied in conjunction with chemically neutral liquid fertilizers. Application in conjunction with highly alkaline fertilizers, such as aqueous ammonia, may cause pesticide degradation, resulting in reduced performance, and should be avoided.

System Requirements: Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

- The system must contain a functional check valve, vacuum relieve 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 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.

Spray Preparation: Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water. Prepare a suspension of this product in a mix tank. Fill the tank with 1/2 to 3/4 the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of this product and then the remaining volume of water.

Sprinkler Irrigation: Follow the requirements in the **System Requirements** section above. Set sprinkler system to deliver 0.1 to 1.25 inches of water per acre. Efficacy may be reduced with higher volumes of water. Start sprinkler and uniformly inject the suspension of this product into the irrigation water line so as to deliver the desired rate per acre. The suspension of this product should be injected with a positive displacement pump into the main line ahead of the right angle turn to ensure adequate mixing. When treatment with this product has been completed, do not irrigate the treated area for 24 to 48 hours to prevent washing the chemical off the crop. Where sprinkler distribution patterns do not overlap sufficiently, unacceptable pest control may result. Check local restrictions and requirements regarding sprinkler applications, as they may vary from state to state.

Application Instructions: Follow the requirements in the **System Requirements** section above. Apply this product only through systems containing anti-siphon and check valves designed to prevent water source contamination or overflow of the mix tank and containing interlocking controls between the metering device and the water pump to ensure simultaneous shutoff. Maintain a gentle continuous agitation in mix tank during mixing and application to ensure a uniform suspension.

Injecting a larger volume of a more dilute suspension per unit of time will provide greater accuracy in calibration and distribution. Application of more than specified quantities of irrigation water per acre may result in decreased product performance.

Do not apply when wind speed favors drift, when system connections or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product cannot be flushed and must be dismantled and drained. In a center pivot system, block the nozzle set nearest the well, pivot, or injection unit to prevent spray being applied to this area. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water.

STORAGE AND DISPOSAL

Do not contaminate water, foodstuffs, feed, or seed by storage or disposal.

STORAGE: Store in a cool place. Protect from excessive heat. Store product in original container only away from water, food, or feed. Keep container closed to prevent spills and contamination. Carefully open containers. After partial use, close tightly. Do not put concentrate or diluted product into food or drink containers.

PESTICIDE DISPOSAL: Do not contaminate water, food, or feed by disposal. Improper disposal of excess pesticide, pesticide spray, or rinsate is a violation of Federal law. Wastes resulting from the use of this product that cannot be used according to the label instructions or chemically reprocessed may be disposed of on site or at a landfill or waste disposal facility approved for pesticide disposal, or in accordance with all applicable Federal, state, or local regulations. For further guidance, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING: Nonrefillable container (flexible-bag-all weights). Do not reuse or refill this container. Offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances. If burned, stay out of smoke.

For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC – 1-800-424-9300.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

BEFORE BUYING OR USING THIS PRODUCT, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions, all of which are beyond the control of LOVELAND PRODUCTS, INC. and the seller. The buyer or user of this product assumes all such inherent risks.

Subject to the foregoing inherent risks, LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use when the product is used in strict accordance with such Directions for Use under normal conditions of use. EXCEPT AS WARRANTED IN THIS LABEL AND TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THIS PRODUCT IS SOLD "AS IS," AND LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE.

IN THE UNLIKELY EVENT THAT BUYER OR USER BELIEVES THAT LOVELAND PRODUCTS, INC. HAS BREACHED A WARRANTY CONTAINED IN THIS LABEL AND TO THE EXTENT REQUIRED BY APPLICABLE LAW, BUYER OR USER MUST SEND WRITTEN NOTICE OF ITS CLAIM TO THE FOLLOWING ADDRESS: LOVELAND PRODUCTS, INC., ATTENTION: LAW DEPARTMENT, P.O. BOX 1286, GREELEY, CO 80632-1286.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT, INCLUDING BUT NOT LIMITED TO CLAIMS OF BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, STRICT LIABILITY, OR OTHER TORTS, SHALL BE LIMITED TO ONE OF THE FOLLOWING, AT THE ELECTION OF LOVELAND PRODUCTS, INC. OR THE SELLER: DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT, TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, LOVELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

Thiolux is a registered trademark of Loveland Products, Inc.
The OMRI Listed seal is a registered trademark of OMRI.



ACCEPTED
05/24/2017
Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 34704-1079

THIOLUX®
SUPPLEMENTAL LABEL
EPA REG. NO. 34704-1079

GROUP	M2	FUNGICIDE
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THIOLUX®

FUNGICIDE—MITICIDE



ACTIVE INGREDIENT:

Sulfur*	By Wt. 80.00%
OTHER INGREDIENTS:	20.00%
TOTAL	100.00%

* CAS No. 7704-34-9

KEEP OUT OF REACH OF CHILDREN
CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label find someone to explain it to you in detail.)

This label must be in possession of the user at the time of application.

This supplemental labeling expires on May 20, 2020 and must not be used or distributed after this date.

Read the label affixed to the container for Thiolux before applying.

Use of Thiolux according to this labeling is subject to the use precautions and limitations imposed by the label affixed to the container for Thiolux.

FIRST AID	
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. • Do not give anything to an unconscious person.
If inhaled:	<ul style="list-style-type: none"> • Move 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 on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
If in eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 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.
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	
FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.	

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EPA Est. No. _____

Net Weight 30.0 LB (13.6 KG)

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PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION

Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist.

Personal Protective Equipment (PPE):

Some materials that are chemical-resistant to this product are listed below.

Mixers, loaders, applicators, and other handlers must wear

- Long-sleeved shirts and long pants,
- Chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride,
- Shoes plus socks, and
- Protective eyewear.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, 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)], 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/PPE 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 equipment washwaters or rinsate. Do not apply when weather conditions favor drift from treated areas. Do not apply where run-off is likely to occur.

PHYSICAL HAZARDS

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

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any 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.

Read entire label before using this product.

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AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to labeling affixed to the container under "AGRICULTURAL USE REQUIREMENTS" in the DIRECTIONS FOR USE section for information about this standard.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the WPS for agricultural pesticides [40 CFR Part 170]. The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Keep unprotected persons and domestic animals out of the treated area until sprays have dried.

PRODUCT INFORMATION

Sulfur may cause severe fruit and foliage injury to certain crops. Sulfur sensitive plants include D'Anjou and Comice pears, apricots, cranberries, certain varieties of cucurbits, filberts, spinach, tung walnuts, and certain ornamentals. Apples, pears and strawberries are susceptible to foliage burn with sulfur under certain climatic conditions. Sulfur may burn foliage when temperature is high.

Restrictions

DO NOT apply if temperatures during or within 3 days after application are expected to exceed 90 °F.

DO NOT use within 2 weeks of an oil spray treatment except for dormant, delayed dormant or postharvest applications with a suitable spray oil. **For citrus, do not apply within 21 days of an oil spray.** When growing crops for processing, consult the processor before applying sulfur.

For tank mixtures: DO NOT mix with any product which contains a prohibition on tank mixing, and follow more restrictive labeling of any tank mix partner. Pour the specified amount of product into water and stir to make a thin slurry. Add slurry to tank when partially full before other materials are added. Add wetting agents last to avoid foaming. Keep spray mixture agitated while spraying.

Apply to crops as needed in season when Mites or diseases first appear and when insect buildup and plant disease damage are imminent. Repeat as directed. Use the lower rate when disease or insect pressure is low. Use the higher rate when disease or insect pressure is severe.

DIRECTIONS FOR DILUTION

Dilute Application: Ground application: Apply specified rate in 20.0 to 60.0 gallons of water per acre. **Orchard application:** Apply specified rates in 100 to 800 gallons of water per acre.

Concentrate Application: Ground application: Apply specified rate in not less than 5.0 gallons of water per acre. **Orchard application:** Apply specified rate in 20.0 to 100 gallons of water per acre. Special concentrate equipment is necessary for these uses.

Aerial Application: Apply specified rate in 3.0 to 20.0 gallons of water per acre. **DO NOT** make applications to orchards using less than 10.0 gallons of water per acre.

CROP USE DIRECTIONS

Alfalfa (including seed alfalfa): Atlantic mite, Red spider mite – Apply 12.0 to 25.0 pounds Thiolux® per acre throughout season as necessary.

Clover: Mites, Powdery Mildew. Apply 2.0 to 9.0 pounds of Thiolux per acre.

Endive, Swiss Chard, Salsify: Powdery Mildew, Red Spider Mite, Rust – Apply 4.0 to 6.0 pounds of Thiolux per acre at early leaf stage and repeat every 10 to 14 days or as needed.

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Greens- Turnip, Collards, Kale and Mustard Greens: Powdery mildew, Red Spider Mite, Rust, Septoria Leaf Spot – Apply 3.0 to 10.0 pounds of Thiolux per acre at early leaf stage and repeat every 14 days or as needed.

Olive: Clive mite – Apply 10.0 to 30.0 pounds of Thiolux per acre. Apply as needed.

Potatoes, Sweet Potatoes: Powdery mildew, Red spider mite – Apply 3.0 to 10.0 pounds Thiolux per acre at early leaf stage and repeat every 14 days as needed.

Turnips, Parsnips, Horseradish, Radish, Rutabagas: Powdery Mildew, Red Spider Mite – Apply 3.0 to 10.0 pounds of Thiolux per acre at the early leaf stage and repeat every 14 days as needed.

CHEMIGATION APPLICATION

Instructions: Only apply this product through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system. Uneven distribution of treated irrigation water can result in crop injury or lack of effectiveness. Do not apply when wind speed favors drift beyond the area intended for treatment.

Contact State Extension Service Specialists, equipment manufacturers, or other experts if you have any questions about calibration. 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 the chemigation system to any public water system. A public water system means any system for provision to the public of piped water for human consumption if 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.

This product may be applied in conjunction with chemically neutral liquid fertilizers. Application in conjunction with highly alkaline fertilizers, such as aqueous ammonia, may cause pesticide degradation, resulting in reduced performance, and should be avoided.

System Requirements: Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

- The system must contain a functional check valve, vacuum relieve 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 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.

Spray Preparation: Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water. Prepare a suspension of this product in a mix tank. Fill the tank with 1/2 to 3/4 the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of this product and then the remaining volume of water.

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Sprinkler Irrigation: Follow the requirements in the **System Requirements** section above. Set sprinkler system to deliver 0.1 to 1.25 inches of water per acre. Efficacy may be reduced with higher volumes of water. Start sprinkler and uniformly inject the suspension of this product into the irrigation water line so as to deliver the desired rate per acre. The suspension of this product should be injected with a positive displacement pump into the main line ahead of the right angle turn to ensure adequate mixing. When treatment with this product has been completed, do not irrigate the treated area for 24 to 48 hours to prevent washing the chemical off the crop. Where sprinkler distribution patterns do not overlap sufficiently, unacceptable pest control may result. Check local restrictions and requirements regarding sprinkler applications, as they may vary from state to state.

Application Instructions: Follow the requirements in the **System Requirements** section above. Apply this product only through systems containing anti-siphon and check valves designed to prevent water source contamination or overflow of the mix tank and containing interlocking controls between the metering device and the water pump to ensure simultaneous shutoff. Maintain a gentle continuous agitation in mix tank during mixing and application to ensure a uniform suspension.

Injecting a larger volume of a more dilute suspension per unit of time will provide greater accuracy in calibration and distribution. Application of more than specified quantities of irrigation water per acre may result in decreased product performance.

Do not apply when wind speed favors drift, when system connections or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product cannot be flushed and must be dismantled and drained. In a center pivot system, block the nozzle set nearest the well, pivot, or injection unit to prevent spray being applied to this area. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water.

STORAGE AND DISPOSAL

Do not contaminate water, foodstuffs, feed, or seed by storage or disposal.

STORAGE: Store in a cool place. Protect from excessive heat. Store product in original container only way from water, food, or feed. Keep container closed to prevent spills and contamination. Carefully open containers. After partial use, close tightly. Do not put concentrate or diluted product into food or drink containers.

PESTICIDE DISPOSAL: Do not contaminate water, food, or feed by disposal. Improper disposal of excess pesticide, pesticide spray, or rinsate is a violation of Federal law. Wastes resulting from the use of this product that cannot be used according to the label instructions or chemically reprocessed may be disposed of on site or at a landfill or waste disposal facility approved for pesticide disposal, or in accordance with all applicable Federal, state, or local regulations. For further guidance, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING: Nonrefillable container (flexible-bag-all weights). Do not reuse or refill this container. Offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances. If burned, stay out of smoke.

For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC – 1-800-424-9300.
Do not contaminate water, food or feed by storage or disposal.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

BEFORE BUYING OR USING THIS PRODUCT, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such

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risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions, all of which are beyond the control of LOVELAND PRODUCTS, INC. and the seller. The buyer or user of this product assumes all such inherent risks.

Subject to the foregoing inherent risks, LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use when the product is used in strict accordance with such Directions for Use under normal conditions of use. EXCEPT AS WARRANTED IN THIS LABEL AND TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THIS PRODUCT IS SOLD "AS IS," AND LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE. IN THE UNLIKELY EVENT THAT BUYER OR USER BELIEVES THAT LOVELAND PRODUCTS, INC. HAS BREACHED A WARRANTY CONTAINED IN THIS LABEL AND TO THE EXTENT REQUIRED BY APPLICABLE LAW, BUYER OR USER MUST SEND WRITTEN NOTICE OF ITS CLAIM TO THE FOLLOWING ADDRESS: LOVELAND PRODUCTS, INC., ATTENTION: LAW DEPARTMENT, P.O. BOX 1286, GREELEY, CO 80632-1286.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT, INCLUDING BUT NOT LIMITED TO CLAIMS OF BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, STRICT LIABILITY, OR OTHER TORTS, SHALL BE LIMITED TO ONE OF THE FOLLOWING, AT THE ELECTION OF LOVELAND PRODUCTS, INC. OR THE SELLER: DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, LOVELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

Formulated for
Loveland Products Inc.,
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