



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

June 13, 2023

Lia Murty  
Consultant  
Stoller Enterprises  
9090 Katy Freeway, Suite 400  
Houston, Texas 77024

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment – Adoption of Common Name ‘Spongy Moth,’ Addition of Net Contents and Other Minor Edits  
Product Name: Golden Pest Spray Oil  
EPA Registration Number: 57538-11  
Application Date: 2/27/23  
Action Code Case Number: 00438388

Dear Ms. Murty:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or 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 (1) copy of the final printed labeling before you release this 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 your company’s website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the U.S. Environmental Protection Agency (EPA). If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the 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 EPA find or if it is brought to our attention that a website contains false

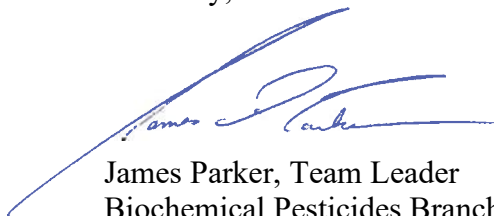
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or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Chris Pfeifer of my team by phone at (703) 244-7991 or via email at [pfeifer.chris@epa.gov](mailto:pfeifer.chris@epa.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read "James Parker", with a long, sweeping underline that extends to the left.

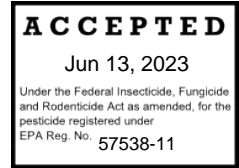
James Parker, Team Leader  
Biochemical Pesticides Branch  
Biopesticides and Pollution  
Prevention Division (7511P)  
Office of Pesticide Programs

Enclosure

[Denotes Optional Text; parenthesis denotes one option ([must] [should]) be chosen]

{Denotes Notes to EPA Reviewer}

<Notes to Stoller Reviewer>



# GOLDEN PEST SPRAY OIL™

*For use on Evergreens, Field Crops, Fruits, Greenhouse Crops, Nuts, Vegetables, and  
 Woody Shrubs*

*Controls Mealybug, Mites, Moths, Scale, Sooty Mold, and Whitefly*

[Sublabel A for AGRICULTURAL/COMMERICAL USE]

[Sublabel B for RESIDENTIAL USE]

**ACTIVE INGREDIENT(S):**

Soybean Oil ..... 93%

**INERT INGREDIENT(S):** ..... 7%

**TOTAL:** ..... 100%

EPA Reg. No. 57538-11

EPA Est. Nos. [57538 -TX-2]

[Z-GOLDENPS]

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

See additional Precautionary Statements and Directions for Use [inside booklet] [on [back panel] [side panel] [other panel]].

Manufactured By  
**STOLLER ENTERPRISES, INC.**  
 9090 Katy Freeway, Suite 400  
 Houston, Texas 77024 U.S.A.  
 Phone (713) 461-1493

{Optional Marketing Claims – can appear anywhere on the label}

< EVERYTHING CLAIMED ON WEBSITE AND MARKETING BROCHURES SHOULD BE INCLUDED HERE >

<Add individual crop claims here – Note: can be bulleted or in a table>

- [OMRI Listed]
- [For use on field crops, fruits, nuts, vegetables, evergreens, woody shrubs and greenhouse crops]
- [Soybean oil-based product]
- [Based on high purity and ultra-refined soybean oil, formulated in an emulsifiable concentrate]
- [For control of spotted lantern fly]
- [For control of [gypsy moth] [spongy moth]]
- [For control of mites, whitefly, and mealy bugs]
- [Labeled for use on [gypsy moth] [spongy moth] and spotted lantern fly egg masses]
- [Provides excellent control of red berry mites.]
- [Provides broad-spectrum insect control]
- [Fits within an integrated pest management (IPM) program as a control for mites and other pests on many different crops.]
- [Active ingredient is a soybean oil that doesn't require any special application equipment]
- [Controls all life stages of many soft-bodied insects and mites.]
- [Doesn't leave a residue or odd taste on crops]
- [Acts as a contact pesticide]
- [Is an insecticide and acaricide]
- [Effective in controlling many soft-bodied insects (aphids, whiteflies, thrips, mites, psyllids, scales, leaf miners, mealybugs, adelgids, leafrollers, webworms among others)]
- [Can be tankmixed with other pesticides]
- [Can be applied during dormant season to control scales and mites]
- [Use Golden Pest Spray Oil™ for application to [gypsy moth] [spongy moth] or spotted lanternfly egg masses to prevent hatch of eggs]
- [Asphyxiation, Suffocation and Desiccation: Upon contact by spraying, it forms a cover or layer over the insect in its different stages, obstructing the orifices of respiration (aerophiles and spiracles), preventing gas exchange and causing death.]
- [Can improve pesticide performance: Because of its contact action and lipophilic effect, it can improve the effectiveness of insecticides when applied in a pesticide tank mix.]

[Denotes Optional Text]  
{Denotes Notes to EPA Reviewer}  
<Notes to Stoller Reviewer>  
{Front Panel Start}

# Golden Pest Spray Oil™

***For use on Evergreens, Field Crops, Fruits, Greenhouse Crops, Nuts, Vegetables, and Woody Shrubs.***

***Controls Mealybug, Mites, Moths, Scale, Sooty Mold, and Whitefly***

**[Sublabel A for AGRICULTURAL/COMMERCIAL USE]**

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Soybean Oil ..... 93%

**INERT INGREDIENT(S):**.....7%

**TOTAL:**.....100%

## KEEP OUT OF REACH OF CHILDREN CAUTION

See additional Precautionary Statements and Directions for Use [inside booklet] [on [back panel] [side panel] [other panel]].

EPA Reg. No.: 57538-11  
EPA Est. No.: [57538-TX-2]

**[Density: ]**

[7.6 lb/gal or 0.92 kg/L]

**NET CONTENTS/ [NET WEIGHT]:**

1 Gal [7.6 lb]     2.5 Gal [19.1 lb]     5 Gal [38.3 lb]     55 Gal [422.2 lb]

**NET CONTENTS/ [NET WEIGHT]:**

4 L [3.6 kg]     10 L [9.2 kg]     20 L [18.4 kg]     208 L [191.3 kg]

[\*Not for use in California]

[Lot Number:]

[Manufacture Date:]

[Best if used by:]

[1.0 Quart [1.9 lb]]

[0.95 L [0.9 kg]]

[30 Gal [230.3 lb]]

[275 Gal [2111.2 lb] ]

[115 L [105.8 kg] ]

[1040 L [956.8] ]

[Rev: [ 23A10]

[Z-GOLDENPS]

[Patents: [www.stollerusa.com/about/patents/](http://www.stollerusa.com/about/patents/)]



For Organic Use • OMRI.org

[OMRI Organic use Stamp]

[For use in organic production]

[For organic production]

[Can be used in organic production]

{End Front Panel}

<b>FIRST AID</b>	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or a doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>HOTLINE NUMBER:</b>	
<p>-Have the product container or label with you when calling a poison control center or doctor or are going for treatment.          -For general information on product use, etc., call the National Pesticide Information Center at 1-800-858-7378.          -For emergencies, call the Poison Center at 1-800-222-1222.</p>	
<b>FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure or accident, call CHEMTREC at 1-800-424-9300.</b>	

## **PRECAUTIONARY STATEMENTS**

### **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Wear the appropriate Personal Protective Equipment (PPE).

### **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical resistant to this product include any waterproof material. If you want more options, follow instructions for category A on an Environmental Protection Agency (EPA) chemical-resistance category selection chart.

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 material, and
- shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

### **ENGINEERING CONTROL 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.

<b>USER SAFETY RECOMMENDATIONS</b>
<b>Users should:</b>
<ul style="list-style-type: none"> <li>• <b>Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.</b></li> <li>• <b>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.</b></li> </ul>

## **ENVIRONMENTAL HAZARDS**

For terrestrial uses, 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 washwater or rinsate.

## **GENERAL USE INSTRUCTIONS**

Golden Pest Spray Oil™ is a pest oil product specifically designed to provide broad spectrum insect control. Golden Pest Spray Oil™ is formulated with soybean oil and may be utilized for insect control. Golden Pest Spray Oil™ is compatible with most fertilizer and pesticide materials, but always conduct a jar test when using an untried combination to ensure compatibility.

## **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 state or tribal agency responsible for pesticide regulation.

## **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 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), restricted-entry interval(REI), and notification to workers. The requirements in this box only apply to uses of this product that are covered by the WPS.

Do not enter or allow worker entry into treated areas during the REI of 4 hours unless wearing appropriate PPE.

PPE required for early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil, or water is:

- long-sleeved shirt and long pants,
- chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride material, and
- shoes plus socks.

## **NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard (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. Do not enter or allow others to enter without appropriate protective clothing until sprays have dried.

## **CHEMIGATION[\*]**

### **Application and Calibration Techniques for Sprinkler Irrigation**

Apply this product only through the following types of irrigation systems: sprinkler including center pivot, traveler, big gun, lateral move, end tow, side (wheel) roll, solid set, or hand move irrigation; furrow; or drip (trickle) irrigation systems. Do not apply through any other types of irrigation systems. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Experiment Station 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 devices for public water systems are 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.

[\*Not for use in California]

**A. Center Pivot, Traveler, Big Gun, Lateral Move, End Tow, and Side (Wheel) Roll Irrigation**

**Equipment:** Operate system and injection equipment at normal pressures recommended by the manufacturer of injection equipment used. Fill tank of injection equipment with water. Operate system for one complete circle for center pivot or one complete run for the other recommended equipment, measuring time required, amount of water injected, and acreage contained in circle or run. Mix recommended amount of product for acreage to be covered into same amount of water used during calibration and inject into system continuously for one revolution or run but continue to operate irrigation system until product has been cleared from last sprinkler head. Spray mixture in the chemical supply tank must be continuously agitated, otherwise settling and uneven application may occur.

**B. Solid Set and Hand Move Irrigation Equipment:** Determine acreage covered by sprinkler. Fill tank of injection equipment with water and adjust flow to use contents over a thirty to forty-five-minute period. Mix desired amount of product for acreage to be covered into quantity of water used during calibration and operate entire system at normal pressures recommended by the manufacturer of injection equipment used for amount of time established during calibration. Provide constant mechanical agitation in the mix tank to ensure that product will remain in suspension during the injection cycle. Product can be injected at the beginning or end of the irrigation cycle or as a separate application. Stop injection equipment after treatment is completed and continue to operate irrigation system until pesticide is cleared from last sprinkler head.

**Safety Devices for Sprinkler Chemigation**

- (1) The systems designated above 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.
- (2) All pesticide injection pipelines must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- (3) 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.
- (4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- (5) 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.
- (6) 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.
- (7) Do not apply when wind speed favors drift beyond the area intended for treatment.

**Systems Connected to Public Water Sources**

- (1) Public water system means a system for the 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 a year.
- (2) 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.



- (3) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- (4) 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.
- (5) 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 no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- (6) 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.
- (7) Do not apply when wind speed favors drift beyond the area intended for treatment.

[\*Not for use in California]

### MIXING DIRECTIONS

1. Consult application rate tables to determine appropriate amounts of Golden Pest Spray Oil™ and water to mix.
2. Shake well before using.
3. Add sufficient water to the mixing tank to allow proper agitation.
4. Add oil under agitation, when  $\frac{3}{4}$  full topping off with water to form milky solution.
5. For best results, maintain agitation until solution is used.
6. In small equipment lacking agitation, stir or shake diluted spray frequently during application.

### APPLICATION INSTRUCTIONS

Completely cover the target pest with spray. Oil residue on the plant surface often acts as a feeding and ovipositioning deterrent. However, the primary target is the pest itself as oil is contact pesticide. Spray only when the temperature is above 40°F (4.4 °C) and there is no danger of freezing.

**Dilute Applications** is defined as the number of gallons needed to completely cover all the tree surfaces, but not to the point of runoff. For most tree fruits, this can be as much as 300-400 gal/A (2806-3742 L/Ha) or as low as 100 gal/A (936 L/Ha) for smaller trees. For mature trees, this can be as much as 800-1500 gal/A (7483-14030 L/Ha).

**Low Volume Applications** will require the same amount of oil per acre (per Ha) as dilute sprays but applied with much less water 10 to 80 gal/A or 94-748 L/Ha). Base spray oil calculations on no run-off of the oil phase of the mixture.

### TIMING THE TREATMENT

See table on this label for general use. Consult your State Agricultural Experiment Station or State Extension Service Specialist to determine timing of application to fit local growing and climatic conditions. Do not exceed maximum rates or apply later than label instructions.

One application of Golden Pest Spray Oil™ can be applied to deciduous shrubs and trees in the dormant season to control scales and mites.

### TANK MIXING

Golden Pest Spray Oil™ is permitted to be tank mixed with other pesticides. Use the resulting tank mix in accordance with the more restrictive label limitations and precautions. Do not exceed dosage rates. Before tank mixing with other labeled products, check for tank mix compatibility. A jar test prior to tank mixing this product with other pesticides or liquid fertilizer will ensure compatibility. Use a clear glass quart jar with lid and mix the tank mix ingredients in their relative proportions. Invert the jar containing the mixture several times and observe the mixture for approximately  $\frac{1}{2}$  hour. If components of the mixture separate readily, a compatibility agent will be helpful in maintaining the stability of the spray

mixture. If the mixture balls-up, forms flakes, sludge, jells, oily films or layers or other precipitates, the components of the mixture are not compatible.

### **GENERAL INSTRUCTIONS FOR APPLICATION TO ALMONDS, APPLES, APRICOTS, CHERRIES, FIGS, OLIVES, PEACHES, NECTARINES, PEARS AND PRUNES**

Completely cover all tree parts to achieve adequate control. Oil alone will control low to moderate infestations. Combine oil with other compatible insecticides for controlling higher scale infestations. If oil is combined with another insecticide, use the lowest rate of oil stated for a selected application. Consult the local pest management guidelines for more details as to the rates and times of application for your specific location.

### **CITRUS**

Oil applied after October 1 has the potential to increase cold damage to trees. Observe all cautions and limitations on labels of all products used in mixtures. Check mixture for chemical and physical compatibility. Do not use Golden Pest Spray Oil™ in combination with or immediately preceding the application of captan or carbaryl.

### **SHADE TREE AND ORANAMENTAL PLANT RESTRICTIONS**

Oil has the potential to remove the glaucous (blue) bloom from such evergreens as Colorado blue spruce and Koster spruce. Do not spray on walnut foliage. Use lower dosage on oil sensitive plants such as Chamaecypris, Cryptomeria, Japanese Holly, Juniper, Spruce and Smoke Tree. Red Cedar and Douglas Fir have a tendency toward sensitivity.

### **GREENHOUSE AND SHADEHOUSE**

Although no problems with phytotoxicity have been seen at provided rate, the applicator is to conduct a phytotoxicity test on 1 or 2 of the specific plants to be treated. Determine application safety during the bloom period for each individual species of plant by conducting a small test.

### **USE PRECAUTIONS**

Keep oil container tightly closed in storage to prevent entry of water. Spray only when temperature is above 40°F (4.4 °C) and there is no danger of freezing. Avoid spraying when temperatures are excessively high and avoid spraying when plants are suffering from lack of moisture. Sensitive foliage is susceptible to injury.

### **[AERIAL APPLICATION INSTRUCTIONS] [\*]**

[Thorough coverage is necessary to provide a good, uniform effect. Avoid application under conditions when uniform coverage cannot be obtained or when excessive spray drift may occur. Do not apply directly to humans or animals. Dilute as stated for each crop and disease in the application rate column of the crop tables. Apply at 2-3 week intervals. Follow Disease Prevention Program or Disease Control Program as stated. Do not apply at intervals less than 3 days.]

[\*Not for use in California]

**[GYSPY MOTH] [SPONGY MOTH] AND SPOTTED LANTERNFLY EGG MASS GUIDANCE:** Use Golden Pest Spray Oil™ for application to [gypsy moth] [spongy moth] or spotted lanternfly egg masses to prevent hatch of eggs. Mix equal amounts of Golden Pest Spray Oil™ and water and apply to egg masses as a 50% mix. Make a new mix each day treatments are made. Treat egg masses that have been deposited on trees, ground litter, outdoor household articles, recreational vehicles, firewood, nursery stock, rocks, ships, boats and other forms of transportation, or on other articles moved in interstate commerce.

With use of a small hand sprayer, treat individual egg masses until they are completely saturated with the spray solution. Keep the mix agitated while treating. It is important that the egg mass is saturated with spray. Following treatment, leave the egg masses in place or remove and incinerate. Spot spray applications may be applied through the use of high pressure spot sprayer in order to penetrate egg masses that may exist deep into the plant canopy.

### APPLICATION RATES

<b>Crops</b>	<b>Insects Controlled</b>	<b>Dilute Application</b>	<b>Low Volume Application</b>	<b>Time of Application &amp; Comments</b>	<b><u>Maximum Application Rate</u></b>
<b>Alfalfa (seed crop only)</b>	Spider mites	1 gal/A (9.3 L/Ha)	2 gal/A (18.7 L/Ha)	Apply when insects first appear. Repeat weekly for additional control.	2 gal oil /A per application (18.7 L/Ha), 10 gal /A per year (93 L/Ha)
<b>Almonds</b>	Spider mites, aphid eggs, scales	1 gal/A (9.3 L/Ha)	2 to 4 gal/A (18.7 to 37.4 L/Ha)	Dormant**	4 gal oil /A per application (37.4 L/Ha), 10 gal /A per year (93 L/Ha)
<b>Apples</b>	Apple red bug, European fruit Lecanium scale	2 gal/A (18.7 L/Ha)	4 to 6 gal/A (37.4 to 55.8 L/Ha)	Dormant	6 gal oil /A per application (55.8 L/Ha), 18 gal/A per year (167.4 L/Ha)
	European red mite	2 gal/A (18.7 L/Ha)	4 to 6 gal/A (37.4 to 55.8 L/Ha)	Green tip to delayed dormant 1/2" (1.3 cm) green	6 gal oil /A per application (55.8 L/Ha), 18 gal /A per year (167.4 L/Ha)
	San Jose scale	2 gal/A (18.7 L/Ha)	4 to 6 gal/A (37.4 to 55.8 L/Ha)	Delayed dormant 1/2" (1.3 cm) green***	6 gal oil /A per application (55.8 L/Ha), 18 gal /A per year (167.4 L/Ha)
	Fruit tree leaf roller	3 gal/A (27.9 L/Ha)	4 to 6 gal/A (37.4 to 55.8 L/Ha)	Dormant	6 gal oil /A per application (55.8 L/Ha), 18 gal /A per year (167.4 L/Ha)
	Scurfy scale	3 gal/A (27.9 L/Ha)	4 to 6 gal/A (37.4 to 55.8 L/Ha)	Delayed dormant to 1/2" (1.3 cm) green	6 gal oil /A per application (55.8 L/Ha), 18 gal /A per year (167.4 L/Ha)
<b>Apricots</b>	European fruit Lecanium scale	2 gal/A (18.7 L/Ha)	4 to 6 gal/A (37.4 to 55.8 L/Ha)	Dormant to delayed dormant 1/2" (1.3 cm) green	6 gal oil /A per application (55.8 L/Ha), 18 gal /A per year (167.4 L/Ha)
<b>Blueberries</b>	Scales	3 gal/A (27.9 L/Ha)	3 gal/A (27.9 L/Ha)	Dormant	3 gal oil /A per application (27.9 L/Ha), 10 gal /A per year (93 L/Ha)
	Mites	2 gal/A (18.7 L/Ha)	2 gal/A (18.7 L/Ha)	Apply when insects first appear. Repeat weekly for additional control.	2 gal oil /A per application (18.7 L/Ha), 10 gal /A per year (93 L/Ha)

<b>Caneberries</b>	Mites	1-3 gal/A (1 to 3% v/v)	2 to 15 gal/A (18.7 L/Ha to 139.5 L/Ha)	Apply as needed for control. Use sufficient spray volume to achieve thorough coverage. Use higher rates when plant canopies are widespread and heavy and mite infestation severe.	15 gal oil /A per application (139.5 L/Ha), 45 gal /A per year (418.5 L/Ha)
<b>Cherries (sweet &amp; tart)</b>	San Jose scale	2 gal/A (18.7 L/Ha)	4 to 6 gal/A (37.4 to 55.8 L/Ha)	Dormant	6 gal oil /A per application (55.8 L/Ha), 18 gal /A per year (167.4 L/Ha)
<b>Citrus</b>	Texas citrus mite, citrus rust mite, citrus red mite, loosening sooty mold	1 gal/A (9.3 L/Ha)	6 to 15 gal/A (55.8 to 139.5 L/Ha) Apply in sufficient water and manner to assure thorough distribution	Use Golden Pest Spray Oil™ for application to citrus at post bloom, summer or fall spray application. Do not apply when trees are in or near wilting.	15 gal oil /A per application (139.5 L/Ha), 45 gal /A per year (418.5 L/Ha)
<b>Corn (field &amp; sweet)</b>	Fall army worms, root worms, ear worms	2 gal/A (18.7 L/Ha)	2 gal/A (18.7 L/Ha)	Apply when insects first appear. Repeat weekly for additional control.	2 gal oil /A per application (18.7 L/Ha), 10 gal /A per year (93 L/Ha)
<b>Cotton</b>	Aphids, whitefly, spider mites	1 to 2 gal/A (9.3- L/Ha)	2 gal/A (18.7 L/Ha)	Apply when insects first appear. Repeat weekly as needed.	2 gal oil /A per application (18.7 L/Ha), 10 gal /A per year (93 L/Ha)
<b>Figs</b>	Scale (severe)	2 gal/A (18.7 L/Ha)	4 to 6 gal/A (37.4 to 55.8 L/Ha)	Dormant/delayed dormant	6 gal oil /A per application (55.8 L/Ha), 18 gal /A per year (167.4 L/Ha)
<b>Grapes</b>	Mealy bugs	1 gal/A (9.3 L/Ha)	2 gal/A (18.7 L/Ha)	Dormant	2 gal oil /A per application (18.7 L/Ha), 10 gal /A per year (93 L/Ha)
<b>Hemp [*]</b>	Mites	1 to 2% v/v	Not applicable	Apply when insects first appear, repeat weekly as needed	1 to 2% solution volume per volume per application, 10 gal /A per year (93 L/Ha)
<b>Nectarines</b>	San Jose scale	2 gal/A (18.7 L/Ha)	4 to 6 gal/A (37.4 to 55.8 L/Ha)	Dormant	6 gal oil /A per application (55.8 L/Ha), 18 gal /A per year (167.4 L/Ha)

<b>Olives</b>	Scales	1 gal/A (9.3 L/Ha)	2 gal/A (18.7 L/Ha)	Pre-bloom or post-bloom to buckshot	2 gal oil /A per application (18.7 L/Ha), 10 gal /A per year (93 L/Ha)
<b>Peaches</b>	Cottony peach scale	2 gal/A (18.7 L/Ha)	4 to 6 gal/A (37.4 to 55.8 L/Ha)	Dormant	6 gal oil /A per application (55.8 L/Ha), 18 gal /A per year (167.4 L/Ha)
<b>Pears</b>	Fruit tree leaf roller, pear leaf blister mite	3 gal/A	4 to 6 gal/A (37.4 to 55.8 L/Ha)	Dormant	6 gal oil /A per application (55.8 L/Ha), 18 gal /A per year (167.4 L/Ha)
<b>Pecans</b>	Obscure scale	3 gal/A	6 to 8 gal/A (55.8 to 74.4 L/Ha)	Dormant	8 gal oil /A per application (74.4 L/Ha), 24 gal /A per year (223.2 L/Ha)
<b>Pumpkins[*]</b>	Mites	1 to 2% v/v	Not applicable	Apply when insects first appear, repeat weekly as needed	1 to 2% volume per volume per application, 10 gal /A per year (93 L/Ha)
<b>Prunes</b>	European fruit Lecanium scale	2 gal/A (18.7 L/Ha)	4 to 6 gal/A (37.4 to 55.8 L/Ha)	Dormant to delayed dormant 1/2" (1.3 cm) green	6 gal oil /A per application (55.8 L/Ha), 18 gal /A per year (167.4 L/Ha)
<b>Strawberries</b>	Powdery mildew	½ to 1 (0.5% to 1%) v/v	Not Applicable	Apply at first sign of disease. Use sufficient spray volume to achieve thorough coverage.	1% solution volume per volume per application, 10 gal /A per year (93 L/Ha)

[\*Not for use in California]

**For delay of fruit tree bloom**, spray 5 gallons in 100 gallons of water /A (5% solution v/v) in late spring before bud break as a concentrate spray. Repeat after 7 days if frost danger to bloom persists.

\*\*Dormant season: After leaf fall and before bud break in the spring.

\*\*\*Delayed dormant season: After bud break with some green leaf showing.

Crops or Plants	Insects Controlled	Application Rate	Time of Application & Comments
Flower and foliage plants including azalea, begonia, bulbs, camellia, carnation, chrysanthemum, gardenia, geranium, hibiscus, impatiens, English ivy, marigold, pansy peony, philodendron, rose, and others	Aphids, certain caterpillars, mealybugs, scales (immature), spider mites, whiteflies (immature)	Low volume: 2 gal/A (18.7 L/Ha)	Apply once a week when insects first appear. Decrease the frequency as the pest is controlled.
Greenhouse and shadehouse crops such as azalea, camellias, gardenias, other nursery ornamental plants, leaf polish for hardy houseplants	Aphids, fungus gnats, lace bugs, leafminers, mealybugs, scale insects, spider mites, whiteflies, whitefly larvae	Dilute: 1 to 2 gals. per 100 gals. Water (1-2% solution v/v)r	Apply once a week when insects first appear. Decrease the frequency as the pest is controlled. Use the lower rate as a leaf polish.
Shade trees and shrubs including conifers; deciduous broadleaf evergreens & woody ornamentals	Aphids, adelgids, certain caterpillars, gall mites, lace bugs, leaf beetle larvae, mealybugs	Dilute: 2 to 3 gals. per 100 gals. Water (2-3% solution v/v)	Apply once a week when insects first appear. Decrease the frequency as the pest is controlled.
Vegetables such as asparagus, beans, beets, cabbage, cauliflower, celery, corn, cucurbits, eggplant, lettuce, melon, peas, potatoes, peppers, squash, tomatoes	Aphids, mites, beetle larvae, leafminers, certain caterpillars, psyllids, whiteflies, leafrollers, armored scale, soft scale, mealybugs, webworms, cankerworms, plant bugs, leafhoppers, thrips	Low volume: 2 gals. /A (18.7 L/Ha)	Apply once a week when insects first appear. Decrease the frequency as the pest is controlled.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited

**Pesticide Storage:** Keep containers tightly closed when not in use. Do not store in direct sunlight.

Absorb spills with dry absorbent and dispose of as directed below.

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

### Container Handling:

**Non-refillable containers.** Do not reuse or refill this container. Clean container promptly after emptying.

**Non-refillable container equal to or less than 5 gallons(19 L).** Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Non-refillable container greater than 5 gallons(19 L).** Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**WARRANTY STATEMENT:** To the fullest extent permitted by law, Stoller Enterprises, Inc. warrants that the product conforms to the description on the label and is reasonably fit for the purposes set forth on the label, when used according to directions under normal use conditions. Neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, expressed or implied, extends to the use of this product contrary to the label instructions; the buyer assumes the risk of any such uses.

**Manufactured by:**

STOLLER ENTERPRISES, INC.

9090 Katy Freeway, Suite 400

Houston, TX 77024 U.S.A.

Toll Free 1-800-539-5283 Tel.: 1(713) 461-1493

# Golden Pest Spray Oil™

[Sublabel B for RESIDENTIAL USE]

*For use only in residential settings for Evergreens, Field Crops, Fruits, Greenhouse Crops, Nuts, Vegetables, and Woody Shrubs.  
Controls Mealybug, Mites, Moths, Scale, Sooty Mold, and Whitefly*

**ACTIVE INGREDIENT(S)::**

Soybean Oil ..... 93%

**INERT INGREDIENT(S):**..... 7%

TOTAL ..... 100%

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

See additional Precautionary Statements and Directions for Use [inside booklet] [on [back panel] [side panel] [other panel]].

[Z-GOLDENPS]

EPA Reg. No.: 57538-11  
EPA Est. No.: □57538-TX-2

Density: \_  
[7.6 lb/gal or 0.92 kg/L]

**NET CONTENTS/ [NET WEIGHT]:**

1 Gal [7.6 lb]     2.5 Gal [□19.1]     5 Gal [38.3 lb]     55 Gal [422.2 lb]

**NET CONTENTS/ [NET WEIGHT]:**

4 L [3.6 kg]     10 L [9.2 kg]     20 L [18.4 kg]     208 L [191.3 kg]

)]

[\*Not for use in California]

[Lot Number:]

[Manufacture Date:]

[Best if used by:]

<add all Package Sizes here>

[1.0 Quart (0.95 L) 1.9lb (0.9 kg)]

[30 Gal [230.3 lb]]

[275 Gal [2111.2 lb] ]

[115 L [105.8 kg] ]

[1040 L [956.8] ]

[Rev: [23A10] ]



For Organic Use • OMRI.org

[OMRI Organic use Stamp]

[For use in organic gardening]



[For organic gardening]  
[Can be used in organic gardening]

{End Front Panel}

<b>FIRST AID</b>	
<b>If in Eyes</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If on Skin or Clothing</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If Swallowed</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>If Inhaled</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>HOTLINE NUMBER:</b> Have the product container or label with you when calling a poison control center or doctor or are going for treatment. For general information on product use, etc., call the National Pesticides Information Center at 1-800-858-7378. For emergencies, call the Poison Center at 1-800-222-1222.	
<b>FOR CHEMICAL EMERGENCY:</b> <b>Spill, leak, fire, exposure or accident, call CHEMTREC at 1-800-424-9300.</b>	

## **PRECAUTIONARY STATEMENTS**

### **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Wear the appropriate Personal Protective Equipment (PPE).

### **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 contaminate water when disposing of equipment washwaters or rinsate.

### **DIRECTIONS FOR USE**

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

### **GENERAL USE INSTRUCTIONS**

Golden Pest Spray Oil™ is a pest oil product specifically designed to provide broad spectrum insect control. Golden Pest Spray Oil™ is formulated with soybean oil and may be utilized for insect control. Golden Pest Spray Oil™ is compatible with most fertilizer and pesticide materials, but always conduct a jar test when using an untried combination to ensure compatibility

### **MIXING DIRECTIONS**

1. Consult application rate tables to determine the appropriate amounts of Golden Pest Spray Oil™ and water to mix.
2. Shake well before using.
3. Fill the sprayer one-half full with water.
4. Add the appropriate amount of Golden Pest Spray Oil™.
5. Agitate the mixture and then complete filling the sprayer with the required amount of water.
6. If using small equipment lacking agitation, stir or shake diluted spray frequently during application.

### APPLICATION INSTRUCTIONS

Apply as a fine spray to thoroughly wet the surface of the plant leaves and stems. Avoid spraying to run-off. Spray volume needed will vary with the size of the crop sprayed.

Apply one application of Golden Pest Spray Oil™ to deciduous shrubs and trees in the dormant season to control scales and mites.

### CITRUS

Do not use Golden Pest Spray Oil™ in combination with or immediately preceding the application of captan or carbaryl. Do not apply oil after October 1 because it has the potential to increase cold damage to trees. Observe all cautions and limitations on labels of all products used in mixtures. Check mixture for chemical and physical compatibility.

### SHADE TREE AND ORNAMENTAL PLANT RESTRICTIONS

Oil has the potential to remove the glaucous (blue) bloom from such evergreens as Colorado blue spruce and Koster spruce. Do not spray on walnut foliage. Use lower dosage on oil sensitive plants such as Chamaecyparis, Cryptomeria, Japanese Holly, Juniper, Spruce, and Smoke Tree. Red Cedar and Douglas Fir have a tendency toward sensitivity.

### GREENHOUSE AND SHADEHOUSE

Although no problems with phytotoxicity have been seen at provided rates, the applicator is to conduct a phytotoxicity test on 1 or 2 of the specific plants to be treated. Determine application safety during the bloom period for each individual species of plant by conducting a small test.

### USE PRECAUTIONS

Keep oil container tightly closed in storage to prevent entry of water. Spray only when temperature is above 40°F and there is no danger of freezing. Avoid spraying when temperatures are excessively high and avoid spraying when plants are suffering from lack of moisture. Sensitive foliage is susceptible to injury.

**[Gypsy Moth] [Spongy Moth] and Spotted Lanternfly Egg Mass Instructions:** Use Golden Pest Spray Oil™ for application to [gypsy moth] [spongy moth] or spotted lanternfly egg masses to prevent hatch of eggs. Mix equal amounts of Golden Pest Spray Oil™ and water and apply to egg masses as a 50% mix. Make a new mix each day treatments are made. Treat egg masses that have been deposited on trees, ground litter, outdoor household articles, recreational vehicles, firewood, nursery stock, rocks, ships, boats and other forms of transportation, or on other articles moved in interstate commerce.

With use of a small hand sprayer, treat individual egg masses until they are completely saturated with the spray solution. Keep the mix agitated while treating. Do not apply with mist blower. It is important that the egg mass is saturated with spray. Following treatment, egg masses can be left in place or removed and incinerated.

### APPLICATION RATES

Crops or Plants	Insects Controlled	Application Rate (Tablespoons Oil/Gal of Water)	Time of Application & Comments
Almonds	Aphid eggs, scales, spider mites	2	Dormant**

<b>Apples</b>	Apple red bug, European fruit lecanium scale	5	Dormant
	European red mite	5	Green tip to delayed dormant 1/2" (1.3 cm) green***
	San Jose scale	5	Delayed dormant to 1/2" (1.3 cm) green
	Fruit tree leaf roller	8	Dormant
	Scurfy scale	8	Delayed dormant to 1 1/2" (1.3 cm) green
<b>Apricots</b>	European fruit lecanium scale	5	Dormant to delayed dormant 1/2" (1.3 cm) green
<b>Blueberries</b>	Scales	8	Dormant
	Mites	5	Apply when insects first appear and repeat weekly as needed.
<b>Cherries (sweet &amp; tart)</b>	San Jose scale	5	Dormant
<b>Citrus</b>	Texas citrus mite, citrus rust mite, citrus red mite, loosening sooty mold	2	Use Golden Pest Spray Oil™ for application to citrus at post bloom, summer or fall spray application. Do not apply when trees are in or near wilting.
<b>Corn (sweet)</b>	Fall army worms, root worms, ear worms	5	Apply when insects first appear and repeat weekly as needed.
<b>Figs</b>	Scale (severe)	5	Dormant /delayed dormant
<b>Flower and foliage plants including azalea, begonia, bulbs, camellia, carnation, chrysanthemum, gardenia, geranium, hibiscus, impatiens, English ivy, marigold, pansy peony, philodendron, rose, and others</b>	Aphids, certain caterpillars, mealybugs, scales (immature), spider mites, whiteflies (immature)	5	Apply once a week when insects first appear. Decrease the frequency as the pest is controlled.
<b>Grapes</b>	Mealybugs	2	Dormant
<b>Greenhouse and shade house crops such as azalea, camellias, gardenias, other nursery, ornamental plants, leaf polish for hardy houseplants</b>	Aphids, fungus gnats, lace bugs, leafminers, mealybugs, scale insects, spider mites, whiteflies, whitefly larvae	3 to 5	Apply once a week when insects first appear. Decrease the frequency as the pest is controlled. Use the lower rate as a leaf polish.
<b>Nectarines</b>	San Jose scale	5	Dormant

<b>Olives</b>	Scales	4	Prebloom or postbloom to buckshot
<b>Peaches</b>	Cottony peach scale	8	Dormant
<b>Pears</b>	Fruit tree leaf roller, pear leaf blister mite	8	Dormant
	Pear psylla	5	Late dormant
<b>Prunes</b>	European fruit lecanium scale	5	Dormant to delayed dormant 1/2" (1.3 cm) green

\*Dormant season: After leaf fall and before bud break in the spring.

\*\*Delayed dormant season: After bud break with some green leaf showing.

<b>Crops or Plants</b>	<b>Insects Controlled</b>	<b>Application Rate (Tablespoons Oil/Gal of Water)</b>	<b>Time of Application &amp; Comments</b>
<b>Shade trees and ornamentals including conifers, deciduous broadleaf evergreens, woody ornamentals, azalea, dogwood, flowering cherry, flowering crab, euonymus, holly, hawthorn, juniper, lilac, pines, privet, rhododendron rose, spirea</b>	Aphids, adelgids, certain caterpillars, gall mites, lace bugs, leaf beetle larvae, mealybugs	5 to 8	Apply once a week during the growing period when insects first appear. Decrease the frequency as the pest is controlled.
<b>Shade trees and ornamentals as above</b>	Plant bugs (immature), psyllids (immature), sawfly larvae, scales (immature), spider mites, whiteflies (immature)	8	Dormant
<b>Vegetables such as asparagus, beans, beets, cabbage, cauliflower, celery, corn, cucurbits, eggplant, lettuce, melon, peas, potatoes, peppers, squash, tomatoes</b>	Aphids, mites, beetle larvae, leafminers, certain caterpillars, psyllids, whiteflies, leafrollers, armored scale, soft scale, mealybugs, webworms, cankerworms, plant bugs, leafhoppers, thrips	3	Apply once a week when insects first appear. Decrease the frequency as the pest is controlled.

#### **STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

**Pesticide Storage:** Keep container tightly closed when not in use.

**Pesticide Disposal:** If partly filled, call your local solid waste agency or I-800-CLEANUP for disposal

instructions. Never place unused product down any indoor or outdoor drain.

**Container Disposal:** Nonrefillable container. Do not reuse or refill this container. Place in trash or offer for recycling if available.

**WARRANTY STATEMENT:** To the fullest extent permitted by law, Stoller Enterprises, Inc. warrants that the product conforms to the description on the label and is reasonably fit for the purposes set forth on the label, when used according to directions under normal use conditions. Neither this warranty nor any

other warranty of merchantability or fitness for a particular purpose, expressed or implied, extends to the use of this product contrary to the label instructions; the buyer assumes the risk of any such uses.

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