

# Trilogy®

**FUNGICIDE/MITICIDE/INSECTICIDE**

For use on vegetables, fruits, nuts, melons, outdoor ornamental plants and agronomic crops.  
For foliar control of fungal disease and insect pests  
Can be Used Up to Day of Harvest



FOR ORGANIC PRODUCTION



**ACTIVE INGREDIENT:**

Clarified Hydrophobic Extract of Neem Oil .....	70%
OTHER INGREDIENTS .....	30%
TOTAL .....	100%

This product contains 5.46 lb of clarified hydrophobic extract of neem oil per US gallon.

This container will treat up to 0.5 acres when used at the highest application rate (only for containers less than 5 gallons).

Net Contents:	EPA Reg. No. 70051-2
Lot No.:	EPA Est. No.

Composition covered by US patents 5,298,251; 5,356,629; 5,372,817; 5,405,612; and 5,409,708

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See Inside Panels for Additional Precautionary Statements, Directions for Use, and Warranty

Manufactured by:  
Certis USA LLC  
9145 Guilford Road, Suite 175  
Columbia, MD 21046

**ESL20180531  
20190608**



This is a Specimen Label. It may not reflect the most-recent approved label for use in your state. Always refer to the label on the product packaging for approved use instructions. Please contact your Certis sales representative for more information.

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

CAUTION. Harmful if absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

<b>FIRST AID</b>	
If on skin or clothing:	<ul style="list-style-type: none"><li>• Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.</li></ul>
If in eyes:	<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></ul>
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.	
Hotline number: 1-800-255-3924	

**Personal Protective Equipment:**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical resistance category selection chart.

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride (PVC) or Viton.
- Shoes plus socks.

Follow the 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.

**User Safety Recommendations:**

Users should:

- 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**

This product is hazardous to fish and aquatic invertebrates.

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 wash water or rinsate.

**BEE HAZARD**

This product is toxic to bees exposed to direct treatment. Do not apply this product while bees are actively visiting the treatment area.

## PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heat or open flame.

## 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 4 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, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinylchloride (PVC) or Viton.
- Shoes plus socks.

### GENERAL INFORMATION:

Thorough coverage is necessary to provide good disease and mite control. Trilogy® prevents fungal attack of plant tissue and contact activity to mite pressure on the plant. Avoid excessive runoff of spray material for maximum control. For best results, maintain constant agitation in spray equipment. For optimal performance, do not mix with cold water (less than 45°F). Do not apply to wilted or otherwise stressed plants, or to newly transplanted materials or crops prior to root establishment. When used in conjunction with beneficial insects, conduct a small trial to assure compatibility before using on a large scale. As with other oil-based products, exercise care in timing applications to early morning/late evening to minimize the potential for leaf burn. Use with care on plants with tender tissue. Check for leaf burn in small scale trials prior to use.

### LANDSCAPE USE INSTRUCTIONS

#### ***FUNGICIDE USE***

Trilogy® will provide broad spectrum control when used at the rate of 1 gallon per 100 gallons of water. Apply Trilogy® at a rate of 1:100 when spraying as a preventative for outdoor applications. Under extreme outdoor conditions, apply Trilogy® at the 1:50 application rate (see table for detailed use rates). This will provide the necessary control under the extreme outdoor conditions. When using Trilogy® as a preventative, make application on a 14-day schedule. If disease is present, use a 7-day application schedule to control the disease and prevent further damage from occurring.

### MIXING INSTRUCTIONS

Add Trilogy® to one-half (1/2) full tank under agitation containing water of 45°F or greater before filling to desired level. If water temperature is below 45°F, premix Trilogy® at a 1:1 ratio with tepid water to ensure good emulsification. Then dilute to final volume. When combining with other products, such as wettable powder insecticides or fungicides, add these items first when the tank is approximately 1/3 full. Ensure that there is good agitation while mixing for complete emulsification. Maintain agitation during spray application. Do not use if this oil does not form a uniform, cloudy emulsion.

### APPLICATION INSTRUCTIONS

Apply until plant surface is uniformly wet with minimal runoff at 25-40 psi with hand sprayer or 100-200 psi with power sprayer as a fine spray. Avoid excessive application.

MANAGEMENT OF TURF DISEASES			
Spray Target	Concentration	Spray Interval	Precautions
Snow Mold	1:100 – 1:50 (1.0% – 2.0%)	14 days	In Fall before first snow
Dollar Spot	1:100 – 1:200 (1.0% – 0.5%)	7-14 days	At first sign of disease
Brown Patch	1:100 – 1:200 (1.0% – 0.5%)	7-14 days	At first sign of disease

### AGRICULTURAL USE DIRECTIONS

Trilogy® is a broad spectrum fungicide of certain diseases and controls mites in citrus, deciduous fruits and nuts, vegetable crops, cereal grains, and other miscellaneous crops.

- Do not use Trilogy® after bloom on table grapes or following bunch closure on wine grapes. Do not use Trilogy® after pit hardening on stone fruit.
- Use care when applying near streams, ponds, lakes, or other bodies of water. Do not apply Trilogy® when weather conditions favor drift or when the likelihood of runoff is high.
- Apply Trilogy® by conventional, low volume, and aerial application equipment.

For Diseases: Apply Trilogy® as a 1.0% solution in sufficient amounts of water to achieve complete coverage of foliage. (See the following detailed directions per crop groupings). When used as a foliar fungicide, begin applications when conditions are favorable for disease but before infection. Apply Trilogy® every 7-14 days until threat of disease is over. Use Trilogy® in rotation with other fungicides to increase the spectrum of control.

For Mites: For best results, apply Trilogy® in sufficient amounts of water to achieve complete coverage. Trilogy® is most effective when applied before mites or eggs are present in large numbers. (See the following detailed directions per crop groupings). Apply at a rate of 1.0-2.0% Trilogy®. Reapply Trilogy® every 7-21 days until pressure is over.

For Insects: For best results, apply Trilogy® at 1.0-2.0% in sufficient amounts of water to achieve complete coverage. Trilogy® is most effective when applied before insects or eggs are present in large numbers. Repeat application based on pest pressure and field scouting for best results. Use the dilution tables to calculate dilution rates.

**APPLICATION INSTRUCTIONS**

Ground Application: Apply Trilogy® by ground application in a minimum of 25 gallons of water / acre.

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

Aerial Application: For those crops where aerial applications are indicated, apply a minimum of 5 gallons of water / acre unless otherwise specified. Avoid application under conditions when uniform coverage cannot be obtained or when excessive drift may occur. Do not apply directly to humans, animals or aquatic animals.

**DILUTION TABLE FOR LOW VOLUME (INCLUDING AERIAL) APPLICATIONS**  
(5-30 gallons per acre)

Gallons of Water	Trilogy®	DILUTION
5	1 Quart*	5%
10	1 Quart*	2.5%
15	1 Quart*	1.67%
20	1 Quart*	1.25%
25	1 Quart*	1.0%
30	1 Quart	0.83%

\*For citrus, stone fruit, tropical fruit, pome fruit, and nuts, refer to specific application instructions.

**DILUTION TABLE FOR HIGH VOLUME APPLICATION (25-250 gallons per acre)**

Gallons of Water	Gallons of Trilogy® (0.5% Solution)	Gallons of Trilogy® (1.0% Solution)	Gallons of Trilogy® (1.5% Solution)	Gallons of Trilogy® (2.0% Solution)
25	Use 1.0% solution	0.25 (32 fl oz)	0.375 (48 fl oz)	0.5 (64 fl oz)
50	0.25 (32 fl oz)	0.5 (64 fl oz)	0.75 (96 fl oz)	1.0
75	0.375 (48 fl oz)	0.75 (96 fl oz)	1.125	1.5
100	0.5	1.0	1.5	2.0
125	0.625 (80 fl oz)	1.25	1.875	2.5
150	0.75	1.5	2.25	3.0
175	0.875 (112 fl oz)	1.75	2.625	3.5
200	1.0	2.0	3.0	4.0
225	1.125	2.25	3.375	4.5
250	1.25	2.5	3.75	5.0

\*For Vegetable, Cereal Grains, and Other Miscellaneous Crops, refer to specific use directions.

## MIXING INSTRUCTIONS

Add Trilogy® to one-half (1/2) full tank under agitation containing water of 45°F or greater before filling to desired level. If water temperature is below 45°F, premix Trilogy® at a 1:1 ratio with tepid water to ensure good emulsification. Then dilute to final volume. When combining with other products, such as wettable powder insecticides or fungicides, add these items first when the tank is approximately 1/3 full. Ensure that there is good agitation while mixing for complete emulsification. Maintain agitation during spray application. Do not use if this oil does not form a uniform cloudy emulsion.

**TANK MIXING:** Trilogy® has been found to be compatible with most commonly used fungicides, insecticides and fertilizers. Check physical compatibility first with other products before mixing by using a jar test. Using a quart jar, add the proportionate amounts of the products to 1 quart of water. After thoroughly mixing, let mixture stand for at least 5 minutes. Growers must tank mix combinations for phytotoxicity on a sample of plants prior to use. *Due to the wide variation in climatic conditions, cultural practices, and other factors, the User assumes full responsibility for any crop damage or other liability resulting from the use of Trilogy® in a tank mix combination.* Avoid tank mixes with Morestan, Captan, Sulfur, Bravo, Echo, chlorothalonil or other chemically similar products as unpredictable results or leaf burn may occur.

## CITRUS

Use Trilogy® on citrus to control diseases to include Anthracnose, Post-Bloom Fruit Drop, and Scab. Apply as a foliar application at the rate of 1.0% in 25-200 gallons of water for high volume applications or a minimum of 0.5 gallons Trilogy® in a minimum of 5 gallons of water per acre for low volume applications. Do not apply more than 2.5 gallons of Trilogy® per acre, per application.

Reapply Trilogy® every 7-14 days until threat of disease is over.

For control of Alternaria and Greasy Spot, apply Trilogy® at a 1.0% solution in 25-125 gallons of water per acre in combination with Copper @ 2.0 lbs a.i. per acre (as found in EPA registered products such as Kocide® and Champ®) as a preventative disease spray tank mixture.

Use Trilogy® on citrus to control mites at a rate of 1.0-2.0% in 25-200 gallons of water for high volume application or 0.5 gallon Trilogy® in a minimum of 5 gallons of water per acre for low volume application. As a dormant oil spray, use Trilogy® as a 2% solution or 1 quart Trilogy® minimum per acre. Do not apply more than 5 gallons of Trilogy® per acre, per application.

## STONE AND TROPICAL FRUITS FUNGICIDE USE

Apply Trilogy® at a rate of 1.0% in 25-200 gallons of water for high volume applications or 0.5 gallons Trilogy® in a minimum of 5 gallons of water per acre for low volume application. Reapply Trilogy® every 7-14 days until threat of disease is over.

## MITICIDE USE

Use Trilogy® at first sign of pests or pest damage at the appropriate rate listed below as a foliar spray in sufficient water for thorough coverage. Repeat applications as needed for adequate control every 7-21 days. Apply a 1.0-2.0% solution of Trilogy® for high volume application or a minimum of 1 quart Trilogy® in a minimum of 5 gallons of water per acre for low volume application. Do not apply more than 5 gallons of Trilogy® per acre, per application.

Do not use Trilogy® after pit hardening on stone fruit.

## VEGETABLE, CEREAL GRAINS AND OTHER MISCELLANEOUS CROPS

### FUNGICIDE USE

Apply Trilogy® at the rate of 0.5%- 1.0% in 25-100 gallons of water per acre or 2 pints Trilogy® in a minimum of 5 gallons of water per acre for low volume applications. Repeat applications every 7-14 days. Apply no more than 2 gallons of Trilogy® per acre per application. Larger plants will require higher amounts of water to obtain good coverage. For mushrooms, apply Trilogy® at a rate of 0.5%-2.0% in 25-100 gallons of water per 8,000 square feet. Repeat applications every 7-14 days.

### MITICIDE USE

Apply Trilogy® at a rate of 0.5%-2.0% in 25- 100 gallons of water per acre or 2 pints Trilogy® in a minimum of 5 gallons of water per acre for low volume application. Apply no more than 2 gallons Trilogy® per acre in solution per application. Apply in a solution of sufficient volume to achieve complete coverage of foliage. Reapply Trilogy® every 7-21 days as needed for adequate control. Larger plants will require higher amounts of water to obtain good coverage.

### POME (DECIDUOUS FRUITS) AND NUTS

**FUNGICIDE USE:** Apply Trilogy® at a rate of 1.0% in 25-100 gallons of water per acre or 0.5 quarts Trilogy® in a minimum of 5 gallons of water per acre for low volume application. Apply no more than 2.5 gallons of Trilogy® per acre in solution per application. Repeat applications every 7 - 14 days.

**MITICIDE USE:** Use Trilogy® at a rate of 1.0-2.0% in 25-100 gallons of water per acre or 0.5 quarts Trilogy® in a minimum of 5 gallons of water per acre for low volume application. Apply no more than 2 gallons of Trilogy® per acre per solution. Apply at first sign of pests or pest damage. Repeat application as needed for adequate control every 7-21 days. Do not apply more than 5 gallons Trilogy® per acre, per application.

**Walnuts:** Avoid spraying after husk split.

<b>BULB, COLE, AND LEAFY VEGETABLES</b>		
Refer to specific application instructions found directly below the heading		
<b>Agricultural Use Directions</b>		
<b>CROPS (including but not limited to)</b>		
Arugula	Collards	Lettuce (head & leaf)
Broccoli	Corn salad	Low-bok
Broccoli raab	Cress	Onions
Chinese broccoli (Gail lan)	Watercress	Orach
Brussels sprouts	Daikon	Parsley
Cabbage (heads & leaf)	Endive	Purslane
Chinese cabbage (Bok choy, Napa)	Fennel	Radicchio
Chinese mustard cabbage (Gai choy)	Garlic	Rappini
Cauliflower	Greens	Rhubarb
Celery	Collard greens	Shallots
Celtuce	Mustard greens	Spinach
Chervil	Rape greens	Chinese spinach (Amaranth, Tampala)
Chicory	Kale	Swiss chard
Red Chicory	Kohlrabi	Turnip tops

<b>BULB, COLE, AND LEAFY VEGETABLES</b>		
Refer to specific application instructions found directly below the heading		
<b>Agricultural Use Directions</b>		
<b>CROPS (including but not limited to)</b>		
Cilantro	Leek	

<b>CITRUS, POME, STONE, AND TROPICAL FRUITS</b>		
Refer to specific application instructions found directly below the heading		
<b>Agricultural Use Directions</b>		
<b>CROPS (including but not limited to)</b>		
Apples	Figs	Papayas
Apricots	Grapefruits	Passion fruit
Avocados	Guavas	Peaches
Bananas	Jujubes	Pears
Calamondin	Kiwifruit	Oriental pears
Cherries	Kumquats	Pineapples
Barbados cherries	Lemons	Plantains
Sour cherries	Limes	Plums
Sweet cherries	Loquats	Pomegranates
Cherimoya	Lychee	Prunes
Citrus citron	Mangoes	Pummelos
Citrus hybrids	Mandarins	Quinces
Coconuts	Satsuma mandarins	Tangelos
Crabapples	Nectarines	Tangerines
Dates	Olives	
Feijoa	Oranges	

<b>CUCURBITS</b>		
Refer to specific application instructions found directly below the heading		
<b>Agricultural Use Directions</b>		
<b>CROPS (including but not limited to)</b>		
Balsam pears (bitter melons)	Cucumbers	Muskmelons
Cantaloupes	Gherkins	Persian melons
Casaba	Gourds	Pumpkins
Chinese waxgourds	Honey balls	Squashes
Citron melons	Melons (incl. hybrids)	Watermelons (incl. hybrids)
Crenshaw	Honeydew melons	Zucchini

**HERBS AND SPICES**

Refer to specific application instructions found directly below the heading

**Agricultural Use Directions****CROPS (including but not limited to)**

Anise	Cumin	Peppermint
Balm	Curry leaf	Rosemary
Basil	Dandelion	Rue
Borage	Dill	Sage
Chamomile	Fennel	Savory
Caraway	Marigold	Spearmint
Catnip	Marjoram	Sweet bay
Celery	Mint	Tarragon
Chives	Nasturtium	Thyme
Coriander	Pennyroyal	Wintergreen

**LEGUME AND FRUITING VEGETABLES**

Refer to specific application instructions found directly below the heading

**Agricultural Use Directions****CROPS (including but not limited to)**

Beans	Guar	Pigeon peas
Broad beans	Lentils	Snow peas
Calabaza	Peas	Soybeans
Chickpeas	Peanuts	Tomatillos
Eggplants	Pepinos	Tomatoes
Ground cherries	Peppers	

**NUTS****CROPS (including but not limited to)**

Almonds	Chestnuts	Macadamia nuts
Beech nuts	Chinquapins	Pecans
Brazil nuts	Filberts	Pistachios
Butternuts	Hickory nuts	Walnuts
Cashews	Japanese horse chestnuts	

**ROOT AND TUBER VEGETABLES**

Refer to specific application instructions found directly below the heading

**Agricultural Use Directions****CROPS (including but not limited to)**

Artichokes	Ginseng	Rutabaga
Beets	Horseradish	Taro (Dasheen)
Cardone	Parsnips	Turmeric
Carrots	Potatoes	Turnips
Cassava	Sweet Potatoes	Yams
Ginger	Radishes	Yam beans

**SMALL FRUITS AND BERRIES**

Refer to specific application instructions found directly below the heading

**Agricultural Use Directions**

**CROPS** (including but not limited to)

Blackberries	Dewberries	Loganberries
Blueberries	Elderberries	Olallie berries
Boysenberries	Gooseberries	Raspberries (black and red)
Cranberries	Grapes	Strawberries
Currants	Huckleberries	Youngberries

**VEGETABLE, CEREAL GRAINS, AND OTHER MISCELLANEOUS CROPS**

**CROPS** (including but not limited to)

Acerola	Sweetcorn	Safflower
Alfalfa	Cotton	Seagrapes
Araacaga (Apio)	Hops	Sesame
Asparagus	Jicama	Sorghum
Barley	Jojoba	Soursup (Quanabanas)
Breadfruit	Kinep	Star apples
Buckwheat	Mushrooms	Sugarcane
Canola	Nispero	Sunflowers
Coffee	Oats	Tobacco
Coriander	Okra	Wheat
Corn	Quenepa	
Popcorn	Rice	

Pest		Suppression	Diseases		
Control					
Aphids Mealybugs Mites	Rust Mites Spider mites Scales (soft scale)	Whiteflies Thrips	<i>Alternaria</i> Anthracnose <i>Botrytis</i> Downy mildew Early blight	Greasy spot Leaf blight Leaf spot Molds Post-bloom fruit drop	Powdery mildew Rusts Scabs Shothole

## STORAGE AND DISPOSAL

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

**Pesticide Storage:** Keep in original container. Store in a dry place, away from direct sunlight, feed, or foodstuffs. Keep container tightly sealed when not in use. Do not store below 40°F (4°C).

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

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. 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 1/4 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, if available 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

Certis USA LLC warrants that the material contained herein conforms to the description on the label and is reasonably fit for the purposes referred to in the directions for use. Timing and method of application, weather, watering practices, nature of soil, the insect problem, condition of the crop, incompatibility with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the seller. Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herein. NO OTHER EXPRESS OR IMPLIED WARRANTY OF THE FITNESS OR MERCHANTABILITY IS MADE.

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