

70051-2

10/6/2003

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MASTER LABEL

This master label bears directions for agricultural, commercial and homeowner use with various application rates specific to the associated container size.

Neem Oil 70%

FUNGICIDE INSECTICIDE MITICIDE

For Indoor/Outdoor Use on Ornamental Flowering Plants, Trees, Shrubs, Foliage, Vegetables, Fruits, Nuts, Agronomic Crops and Melons, and Row Crops Grown on Commercial Farms and Nurseries, Greenhouses, Landscapes and Homes and Residential Landscapes

Controls Fungal Diseases Including Black Spot, Mildews, Rusts, and Scab
Kills Mites and Insects Including Whiteflies, Aphids, and Scales
For Foliar Control of Fungal Diseases and Insect Pests

ACTIVE INGREDIENT:

Clarified Hydrophobic Extract of Neem Oil..... 70%

INERT 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).

KEEP OUT OF REACH OF CHILDREN
CAUTION

Net Contents: 2.5 gallons, 100 gallons

Lot No.:

EPA Reg. No. 70051-2

EPA Est. No. 70051-CA-001

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

Manufactured by

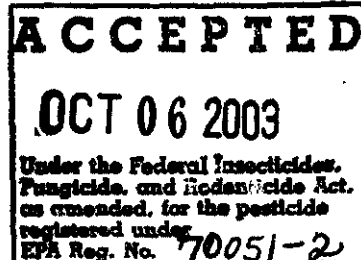
Certis USA

9145 Guilford Road, Suite 175

Columbia, MD 21046

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

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



FIRST AID

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

If inhaled: 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.

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 a poison control center or doctor. Do not give anything to an unconscious person.

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. Hot Line 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 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:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS**Agricultural/Commercial Use**

This product may be hazardous to fish and aquatic invertebrates. 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 by cleaning of equipment or disposal of equipment washwaters.

Homeowner Use

Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters 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 through any type of irrigation system.

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).

Agricultural/Commercial Use

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

Agricultural/Commercial Use

Container Disposal: Triple rinse. 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.

Homeowner

If empty: Do not reuse this container. Place in trash or offer for recycling if available.

If partly filled: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

General Information:

- Kills eggs, larvae, and adult insects.
- Prevents and controls black spot on roses, anthracnose, rust and powdery mildew.
- Kills insects and their eggs.
- Formulated for interiorscape use.
- Shake well before using.
- For best results, maintain constant agitation in spray equipment.
- For optimal performance, do not mix with cold water (less than 45°F).
- Neem Oil 70% is most effective when applied in early to mid-morning or late afternoon when adult pests, such as whiteflies are normally sedentary on the undersides of the foliage.
- Use spray solutions within several hours of preparation for maximum effectiveness. Do not store diluted solution for later use.
- Do not apply to wilted or otherwise stressed plants, or to newly transplanted materials or crops prior to root establishments.
- Do not apply to known sensitive plant species, such as impatiens flowers, fuchsia flowers, hibiscus flowers, some rose flowers, ornamental olive trees, or some carnation varieties without prior testing.
- 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, care should be exercised 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.
- Thorough coverage is necessary to provide good disease and mite control. Neem Oil 70% prevents fungal attack of plant tissue and contact activity to mite pressure on the plant. Avoid excessive runoff of spray material for maximum control.

Agricultural/Commercial Use

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.

Homeowner Use

Keep unprotected persons out of treated area until sprays have dried.

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.

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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 polyvinyl chloride (PVC) or Viton.
- 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 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 out of treated areas until sprays have dried.

TANK MIXING: Neem Oil 70% 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 Neem Oil 70% in a tank mix combination.* Avoid tank mixes with Morestan, Captain, Sulfur, Bravo/Echo, chlorothalonil or other chemically similar products as unpredictable results or leaf burn may occur.

COMMERCIAL USE

- Do not use Triact 70EC on food crops.

GREENHOUSE, LANDSCAPE, AND NURSERY USE INSTRUCTIONS

FUNGICIDE USE

ORNAMENTAL DISEASE CONTROL

Neem Oil 70% is an effective fungicide for the prevention and control of various fungal diseases including black spot on roses, powdery mildew, downy mildew, anthracnose, rust, leaf spot, botrytis, needle rust, scab, flower, twig, and tip blight, and alternaria.

Landscape, Greenhouse and Nursery Ornamentals

Neem Oil 70% will provide broad spectrum control of many fungal diseases affecting ornamental flowering plants, trees, shrubs, and foliage when used at the rate of 1 gallon per 100-200 gallons of water, depending on the level of disease pressure. The lower rate (1:200) can be used when spraying as a preventative in a greenhouse while the higher rate (1:100) is needed for outdoor applications. Determine the best rate for your particular situation.

Greenhouse

When Neem Oil 70% is used as a preventative, the lower rate (1:200) will provide adequate control for most greenhouse situations. If disease pressure is evident, the higher rate of (1:100) is recommended. Make applications for disease prevention on a 7-14 day schedule depending on the anticipated severity of the disease pressure. To control existing disease, apply Neem Oil 70% on a 7-Day schedule until the disease pressure is eliminated. Use a 14-Day schedule to prevent disease pressure from returning. NOTE: Spray greenhouse roses only in a rotation program, which includes Neem Oil 70% once every 4 weeks.

Landscape Ornamentals

In outdoor landscape applications, apply Neem Oil 70% at rates of 1:50 - 1:200 rate (see tables for detailed use rates). This will provide the necessary control under the extreme outdoor conditions. When using Neem Oil 70% 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 Neem Oil 70% 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 Neem Oil 70% 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

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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 emulsify.

APPLICATION INSTRUCTIONS

Apply to runoff at 25-40 psi with hand sprayer or 100-200 psi with power sprayer as a fine spray to both leaf surfaces. Avoid excessive application.

MANAGEMENT OF LANDSCAPE AND ORNAMENTAL DISEASES

SPRAY TARGET	CONCENTRATION	SPRAY INTERVAL	PRECAUTIONS
Potted Plants (Greenhouse)	1:100 - 1:200 (1.0% - 0.5%)	14 days	Trial first on open blooms
Flowering Bench Crops (Greenhouse)	1:100 - 1:200 (1.0% - 0.5%)	7 - 14 days	Trial first on open blooms - not suggested for cut roses
Outdoor Flowering Plants	1:100 - 1:200 (1.0% - 0.5%)	7 - 14 days	Do not spray impatiens flowers
Outdoor Woody Plants	1:50 - 1:100 (2.0% - 1.0%)	14 days	

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

INSECTICIDE/MITICIDE USE

For use to control whiteflies, mealybugs, aphids, leafhoppers, mites and scales on ornamentals, trees, and shrubs in and around greenhouses, commercial nurseries and other commercial structures.

Use Neem Oil 70% at the rate of 1-2 gallons per 100 gallons of water. The low rate (1.0%) can be used when pest pressure is low. The high rate (2.0%) should be used for high pest infestations or to control more troublesome pests, such as mites and scales. Determine the best rate for your particular situation.

Make sprays on a 7-14 day interval depending on the severity of the pest problem. Use the 7-day schedule until the pest population is reduced. A 14-day interval should then be used for control. Make sprays in early to mid-morning or late afternoon. This is important to ensure that the spray thoroughly wets the pests to be controlled, which are often sedentary on the foliage at these times, and also minimizes plant stress.

AGRICULTURAL USE DIRECTIONS

- Do not use Neem Oil 70% in nurseries, on turf, or landscape plantings.
- Neem Oil 70% 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 apply this product through any type of irrigation system.

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- Do not use Neem Oil 70% after bloom on table grapes or following bunch closure on wine grapes. Do not use Neem Oil 70% after pit hardening on stone fruit.
- Use care when applying near streams, ponds, lakes, or other bodies of water. Do not apply Neem Oil 70% when weather conditions favor drift or when the likelihood of runoff is high.
- Thorough plant coverage is essential to obtain optimal levels of control.
- For insects and mites: For best results, apply Neem Oil 70% thoroughly before adult insects, mites, or eggs are present in large numbers.
- For Diseases: Apply Neem Oil 70% 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 Neem Oil 70% every 7-14 days until threat of disease is over. Neem Oil 70% may be used in rotation with other fungicides to increase the spectrum of control.
- For Mites: For best results, apply Neem Oil 70% in sufficient amounts of water to achieve complete coverage. Neem Oil 70% 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% Neem Oil 70%. Reapply Neem Oil 70% every 7-21 days until pressure is over.
- For Insects: For best results, apply Neem Oil 70% at 1.0-2.0% in sufficient amounts of water to achieve complete coverage. Neem Oil 70% 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.
- Consult local agricultural extension service or experiment station for detailed information on timing of applications for the most effective control for your area.
- Apply Neem Oil 70% by conventional, low volume, and aerial application equipment.

APPLICATION INSTRUCTIONS

Ground Application: Apply Neem Oil 70% 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.

MIXING INSTRUCTIONS

Add Neem Oil 70% 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 Neem Oil 70% 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 emulsify.

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

Gallons of Water	NEEM OIL 70%	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.

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

Gallons Water	Gallons of Neem Oil 70% for 0.5% Solution	Gallons of Neem Oil 70% for 1.0% Solution	Gallons of Neem Oil 70% for 1.5% Solution	Gallons of Neem Oil 70% for 2.0% Solution
25	0.125 (16 oz.)	0.25 (32 oz.)	0.375 (48 oz.)	0.5 (64 oz.)
50	0.25 (32 oz.)	0.5 (64 oz.)	0.75 (96 oz.)	1.
75	0.375 (48 oz.)	0.75 (96 oz.)	1.125	1.5
100	0.5	1.0	1.5	2.0
125	0.625 (80 oz.)	1.25	1.875	2.5
150	0.75	1.5	2.25	3.0
175	0.875 (112 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

CITRUS, POME (DECIDUOUS), STONE, TROPICAL FRUITS AND NUTS

Citrus

Use Neem Oil 70% on citrus to control diseases to include Anthracnose, Post-Bloom Fruit Drop, and Scabs. 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 Neem Oil 70% in a minimum of 5 gallons of water per acre for low volume applications. Do not apply more than 2.5 gallons of Neem Oil 70% per acre, per application. Reapply Neem Oil 70% every 7-14 days until threat of disease is over.

For control of Alternaria and Greasy Spot, apply Neem Oil 70% 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 Neem Oil 70% 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 Neem Oil 70% in a minimum of 5 gallons of water per acre for low volume application. As a dormant oil spray, use Neem Oil 70% as a 2% solution or 1 quart Neem Oil 70% minimum per acre. Do not apply more than 5 gallons of Neem Oil 70% per acre, per application.

Stone and Tropical

FUNGICIDE USE: Apply Neem Oil 70% at a rate of 1.0% in 25-200 gallons of water for high volume applications or 0.5 gallons Neem Oil 70% in a minimum of 5 gallons of water per acre for low volume application. Reapply Neem Oil 70% every 7-14 days until threat of disease is over.

MITICIDE USE: Use Neem Oil 70% 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

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1.0-2.0% solution of Neem Oil 70% for high volume application or a minimum of 1 quart Neem Oil 70% in a minimum of 5 gallons of water per acre for low volume application. Do not apply more than 5 gallons of Neem Oil 70% per acre, per application.

Pome (Deciduous Fruits) and Nuts

FUNGICIDE USE: Apply Neem Oil 70% at a rate of 1.0% in 25-100 gallons of water per acre or 0.5 quarts Neem Oil 70% in a minimum of 5 gallons of water per acre for low volume application. Apply no more than 2.5 gallons Neem Oil 70% per acre in solution per application. Repeat applications every 7-14 days.

Walnuts: Avoid spraying after husk split.

MITICIDE USE: Use Neem Oil 70% at a rate of 1.0-2.0% in 25-100 gallons of water per acre or 0.5 quarts Neem Oil 70% in a minimum of 5 gallons of water per acre for low volume application. Apply no more than 2 gallons of Neem Oil 70% 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 Neem Oil 70% per acre, per application.

Walnuts: Avoid spraying after husk split.

CITRUS, POME, STONE, AND TROPICAL FRUITS

Crops (including but not limited to)

Apples	Guavas	Oriental pears
Apricots	Jujubes	Pineapples
Avocados	Kiwifruit	Plantains
Bananas	Kumquats	Plums
Calamondin	Lemons	Chickasaw Plums
Cherries	Limes	Damson Plums
Barbados cherries	Loquats	Japanese Plums
Sour cherries	Lychee	Pomegranates
Sweet cherries	Mangoes	Prunes
Chirimoya	Mandarins	Pummelos
Citrus citron	Satsuma mandarins	Quinces
Citrus hybrids	Nectarines	Tangelos
Coconuts	Olives	Tangerines
Crabapples	Oranges	
Dates	Papayas	
Feijoa	Passion fruit	
Figs	Peaches	
Grapefruits	Pears	

PESTS

Aphids	Fruit flies	Calico scales
Apple grain aphids	Leafminers	Frosted scales
Black cherry aphids	Citrus leafminers	Lecanium scales
Green apple aphids	Mealybugs	San Jose scales
Leafcurl aphids	Mites	Whiteflies
Mealy plum aphids	Rust mites	Citrus whiteflies
Rosy apple aphids	Spider mites	Silverleaf whiteflies
Woolly aphids	Psyllids	Sweetpotato whiteflies
Citrus blackflies	Scales	

DISEASES

Anthracnose	Downy mildew	Shothole
Alternaria	Powdery mildew	
Post-bloom fruit drop	Scabs	
Mildews	Greasy spot	

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

Almonds
Beech nuts
Brazil nuts
Butternuts
Cashews

Chestnuts
Chinquapins
Filberts
Hickory nuts
Japanese horse chestnuts

Macadamia nuts
Pecans
Pistachios
Walnuts

PESTS

Aphids
Woolly aphids
Leafrollers
Fruit tree leafrollers
Mites

Rust mites
Spider mites
Scales
Calico scales
Frosted scales

Lecanium scales
San Jose scales
Weevils
Chestnut weevils

DISEASES

Leaf spot
Shothole

CUCURBITS

Refer to specific application instructions found directly below the heading **Agricultural Use Directions**.

Crops (including but not limited to)

Balsam pears (bitter melons)
Cantaloupes
Casaba
Chinese waxgourds
Citron melons
Crenshaw
Cucumbers

Gherkins
Gourds
Honey balls
Melons (incl. hybrids)
Honeydew melons
Musk melons
Persian melons

Pumpkins
Squashes
Watermelons (incl. hybrids)
Zucchini

PESTS

Leafcurl aphids
Woolly aphids
Leafminers
Mites
Spider Mites
Calico scales

Aphids
Frosted scales
Lecanium scales
San Jose scales
Scales
Squash bugs
Whiteflies

Greenhouse whiteflies
Silverleaf whiteflies
Sweetpotato whiteflies

DISEASES

Mildews
Downy mildew
Powdery mildew

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BULB, COLE AND LEAFY VEGETABLESRefer to specific application instructions found directly below the heading **Agricultural Use Directions**.**Crops (including but not limited to)**

Arugula	Corn salad	Onions
Broccoli	Cress	Orach
Broccoli raab	Watercress	Parsley
Chinese broccoli (Gai Ion)	Daikon	Purslane
Brussels sprouts	Endive	Raddichio
Cabbage (head & leaf)	Fennel	Rappini
Chinese cabbage (Bok choy, Napa)	Garlic	Rhubarb
Chinese mustard cabbage (Gai choy)	Greens	Shallots
Cauliflower	Collard greens	Spinach
Celery	Mustard greens	Chinese Spinach
Celtuce	Rape greens	(Amaranth, Tama-pala)
Chervil	Kale	Swiss chard
Chicory	Kohlrabi	Turnip tops
Red chicory	Leek	
Cilantro	Lettuce (head & leaf)	
Collards	Low-bok	

PESTS

Aphids	Rust Mites	Silverleaf whiteflies
Woolly aphids	Spider Mites	Sweetpotato whiteflies
Leafminers	Whiteflies	
Mites	Greenhouse whiteflies	

DISEASES

Alternaria	Downy mildew	White rust
Botrytis	Powdery mildew	
Mildews	Rusts	

LEGUME AND FRUITING VEGETABLESRefer 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	

PESTS

Aphids	Mites	Sweetpotato whiteflies
Woolly aphids	Rust Mites	Scales
Beetles	Spider Mites	Calico scales
Bean leaf beetles	Psyllids	Frosted scales
Colorado Potato Beetles	Whiteflies	Lecanium scales
Mexican bean beetles	Greenhouse whiteflies	San Jose scales
Leafminers	Silverleaf whiteflies	

DISEASES

Blights	Powdery mildew	Leaf spots
Leaf blight	Molds	Rusts
Mildews	Gray mold	

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ROOT AND TUBER VEGETABLES

Refer to specific application instructions found directly below the heading Agricultural Use Directions.

Crops (including but not limited to)

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

PESTS

Aphids	Psyllids	Whiteflies
Beetles	Scales	Greenhouse whiteflies
Colorado Potato Beetles	Calico scales	Silverleaf whiteflies
Mites	Frosted scales	Sweetpotato whiteflies
Rust Mites	Lecanium scales	
Spider Mites	San Jose scales	

DISEASES

Blights	Powdery mildew
Mildews	Rusts

SMALL FRUITS AND BERRIES

Refer to specific application instructions found directly below the heading Agricultural Use Directions.

Crops (including but not limited to)

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

PESTS

Aphids	Rust Mites	Frosted scales
Woolly aphids	Spider Mites	Lecanium scales
Leafrollers	Scales	San Jose scales
Mites	Calico scales	

DISEASES

Mildews	Powdery mildew	Black rot
Downy mildew	Rots	

HERBS AND SPICES

Refer to specific application instructions found directly below the heading Agricultural Use Directions.

Crops (including but not limited to)

Anise	Catnip	Dandelion
Balm	Celery	Dill
Basil	Chives	Fennel
Borage	Coriander	Marigold
Camomile	Cumin	Marjoram
Caraway	Curry leaf	Mint

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Nasturtium Pennyroyal Peppermint Rosemary Rue	Sage Savory Spcarmint Sweet bay Tarragon	Thyme Wintergreen
PESTS		
Aphids Woolly aphids Mites Rust Mites	Spider Mites Scales Calico scales Frosted scales	Lecanium scales San Jose scales
DISEASES		
Mildews	Powdery mildew	Leaf spot

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

Apply Neem Oil 70% at a rate of 1.0% in 25-100 gallons of water per acre or 2 pints Neem Oil 70% 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 Neem Oil 70% per acre, per application. Larger plants will require higher amounts of water to obtain good coverage.

MITICIDE USE

Apply Neem Oil 70% at a rate of 2.0% in 25-100 gallons of water per acre or 2 pints Neem Oil 70% in a minimum of 5 gallons of water per acre for low volume application. Apply no more than 2 gallons Neem Oil 70% per acre in solution per application. Apply in a solution of sufficient volume to achieve complete coverage of foliage. Reapply Neem Oil 70% every 7-21 days as needed for adequate control. Larger plants will require higher amounts of water to obtain good coverage.

Crops (including but not limited to)

Acerola Alfalfa Araacaga (Apio) Asparagus Barley Breadfruit Buckwheat Canola Coffee Coriander Corn Popcorn	Sweet corn Cotton Hops Jicama Jojoba Kinop Mushrooms Nispero Oats Okra Quenepa Rice	Safflower Seagrapes Sesame Sorghum Soursup (Quanabanas) Star apples Sugarcane Sunflowers Tobacco Wheat
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PESTS		
Beetles Asparagus Beetles Lygus bugs	Thrips Whiteflies Greenhouse whiteflies	Silverleaf whiteflies Sweetpotato whiteflies
DISEASES		
Rusts		

WARRANTY

Certis USA, L.L.C. 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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HOMEOWNER USE DIRECTIONS

GENERAL INFORMATION

- Do not add adjuvants (spreaders, stickers, extenders, etc.) to Neem Oil 70%.
- Stops powdery mildew in 24 hours

FUNGICIDE USE: For use on FRUITS, NUTS, VEGETABLES, HERBS, SPICES, ROSES, HOUSEPLANTS, FLOWERS, TREES, and SHRUBS

APPLICATION INSTRUCTIONS:

Neem Oil 70% is an effective fungicide for the prevention and control of various fungal diseases including powdery mildew, black spot, downy mildew, anthracnose, rust, leaf spot, botrytis, needle rust, scab and flower, twig, tip blight, and alternaria. As a preventative, apply Neem Oil 70% on a 7 to 14 day schedule until the potential for disease development is no longer present. To control disease already present, apply Neem Oil 70% on a 7 day schedule until disease pressure is eliminated. Then continue spraying on a 14 day schedule to prevent the disease from reoccurring. To prevent rust leaf spot diseases, anthracnose and scab, begin applications at the first sign of spring budding. To prevent powdery mildew, apply in mid-summer or when disease is first detected. Continue applications until disease pressure no longer exists.

MIXING INSTRUCTIONS:

Mix Neem Oil 70% at the rate of 2 tablespoons (1 ounce) per gallon of water. Thoroughly mix solution and spray all plant surfaces (including undersides of leaves) until completely wet. Frequently mix solution as you spray.

INSECTICIDE/MITICIDE USE: For use on FRUITS, NUTS, VEGETABLES, HERBS, SPICES, ROSES, HOUSEPLANTS, FLOWERS, TREES, and SHRUBS

APPLICATION INSTRUCTIONS:

Apply Neem Oil 70% at first sign of insects/mites. For control of aphids, spider mites, scale, whiteflies, beetles, leafrollers, and other insect pests. Neem Oil 70% is most effective when applied every 7 to 14 days. For heavy insect populations, spray on a 7 day schedule.

MIXING INSTRUCTIONS:

Mix Neem Oil 70% at the rate of 2 tablespoons (1 ounce) per gallon of water. Thoroughly mix solution and spray all plant surfaces (including underside of leaves) until completely wet. Frequently mix solution as you spray.

Net Contents: 1 Quart (0.946 liters)

M082903

M082503 OMRI

M091503