



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

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

May 31, 2018

Karen E. Warkentien
Director, Regulatory Affairs
Certis USA, LLC
9145 Guilford Road, Suite 175
Columbia, MD 21046

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment – Restore crop use sites (e.g., sugarcane, sunflowers, tobacco, and wheat), add optional statement “Multi-purpose fungicide, insecticide, miticide”, and correct typographical error (e.g., 1:500 to 1:50).
Product Name: NEEM OIL 70%
EPA Registration Number: 70051-2
Application Date: 05/04/2018
OPP Decision Number: 540969

Dear Ms. Warkentien:

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

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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 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 James Parker by phone at (703) 306-0469 or via email at parker.james@epa.gov.

Sincerely,

A handwritten signature in blue ink that reads "Andrew C. Bryceland". The signature is fluid and cursive, with the first name being the most prominent.

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

Enclosure

Master Label/Sublabel A – Commercial Ag Neem Oil 70%

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

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

Lot No.:

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

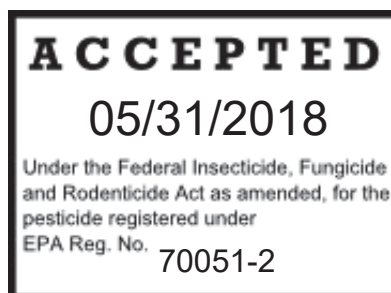
See Inside panels for Additional [Precautionary Statements], [Directions for Use], [Storage and Disposal Statements], [and] [Warranty]

Manufactured by:

Certis USA, LLC

9145 Guilford Road, Suite 175

Columbia, MD 21046



**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.

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.

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. 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. 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. 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, 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 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 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 gallons of water. Apply Neem Oil 70% at a rate of 1:100 when spraying as a preventative for outdoor applications. Under extreme outdoor conditions, apply Neem Oil 70% 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 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 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 to both leaf surfaces. Avoid excessive application.

MANAGEMENT OF LANDSCAPE AND ORNAMENTAL DISEASES			
Spray Target	Concentration	Spray Interval	Precautions
Outdoor Flowering Plants	1:50 – 1:100 (2.0% – 1.0%)	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 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. Use the high rate (2.0%) 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. Then use a 14-day interval for control.

AGRICULTURAL USE DIRECTIONS

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 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.
- Apply Neem Oil 70% by conventional, low volume, and aerial application equipment.

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. Use Neem Oil 70% 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.

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.

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

Gallons of Water	Neem Oil70%	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 Neem Oil 70% (0.5% Solution)	Gallons of Neem Oil 70% (1.0% Solution)	Gallons of Neem Oil 70% (1.5% Solution)	Gallons of Neem Oil 70% (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 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 form a uniform cloudy emulsion.

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, Captan, Sulfur, Bravo, Echo, chlorothalonil or other chemically similar products as unpredictable results or leaf burn may occur.

CITRUS

Use Neem Oil 70% 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 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 FRUITS

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 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.

Do not use Neem Oil 70% after pit hardening on stone fruit.

VEGETABLE, CEREAL GRAINS AND OTHER MISCELLANEOUS CROPS

FUNGICIDE USE

Apply Neem Oil 70% at the rate of 0.5%- 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 of Neem Oil 70% per acre per application. Larger plants will require higher amounts of water to obtain good coverage. For mushrooms, apply Neem Oil 70% 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 Neem Oil 70% at a rate of 0.5%-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.

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 of Neem Oil 70% per acre in solution per application. Repeat applications every 7 - 14 days.

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.

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

CITRUS, POME, STONE, AND TROPICAL FRUITS		
CROPS (including but not limited to)		
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	

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

HERBS AND SPICES	
Refer to specific application instructions found directly below the heading Agricultural Use Directions	
CROPS (including but not limited to)	
Anise	Marigold
Balm	Marjoram
Basil	Mint
Borage	Nasturtium
Chamomile	Pennyroyal
Caraway	Peppermint
Catnip	Rosemary
Celery	Rue
Chives	Sage
Coriander	Savory
Cumin	Spearmint
Curry leaf	Sweet bay
Dandelion	Tarragon
Dill	Thyme
Fennel	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	Peanuts
Broad beans	Pepinos
Calabaza	Peppers
Chickpeas	Pigeon peas
Eggplants	Snow peas
Ground cherries	Soybeans
Guar	Tomatillos
Lentils	Tomatoes
Peas	

NUTS	
CROPS (including but not limited to)	
Almonds	Filberts
Beech nuts	Hickory nuts
Brazil nuts	Japanese horse chestnuts
Butternuts	Macadamia nuts
Cashews	Pecans
Chestnuts	Pistachios
Chinquapins	Walnuts

ROOT AND TUBER VEGETABLES	
Refer to specific application instructions found directly below the heading	
Agricultural Use Directions	
CROPS (including but not limited to)	
Artichokes	Potatoes
Beets	Sweet Potatoes
Cardone	Radishes
Carrots	Rutabaga
Cassava	Taro (Dasheen)
Ginger	Turmeric
Ginseng	Turnips
Horseradish	Yams
Parsnips	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	Grapes
Blueberries	Huckleberries
Boysenberries	Loganberries
Cranberries	Olallie berries
Currants	Raspberries (black and red)
Dewberries	Strawberries
Elderberries	Youngberries
Gooseberries	

VEGETABLE, CEREAL GRAINS, AND OTHER MISCELLANEOUS CROPS	
CROPS (including but not limited to)	
Acerola	Kinop
Alfalfa	Mushrooms
Araacaga (Apio)	Nispero
Asparagus	Oats
Barley	Okra
Breadfruit	Quenepa
Buckwheat	Rice
Canola	Safflower
Coffee	Seagrapes
Coriander	Sesame
Corn	Sorghum
Popcorn	Soursup (Quanabananas)
Sweetcorn	Star apples
Cotton	Sugarcane
Hops	Sunflowers
Jicama	Tobacco
Jojoba	Wheat

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

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.

{-for containers equal to or less than 5 gallons- }

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.

{-for containers greater than 5 gallons-}

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 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, 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.

{-for 250-gallon refillable containers-}

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

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.

Kocide® is a registered trademark of Kocide LLC.
Champ® is a registered trademark of Nufarm Americas Inc.
Morestan® is a registered trademark of Bayer Inc.
Bravo® is a registered trademark of Syngenta Crop Protection, Inc.
Echo® is a registered trademark of Sipcam Agro USA, Inc.

Master Label/Sublabel B – Ornamental

Neem Oil 70%

FUNGICIDE/MITICIDE/INSECTICIDE

For Indoor/Outdoor Use on Ornamental Flowering Plants, Trees, Shrubs, Foliage, Vegetables, and Fruit Grown in: Nurseries, Greenhouses, other covered structures, Interiorscapes, and Landscapes

Controls Fungal Diseases Including Black Spot, Mildews, Rusts, Scab and Insect/Mite 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.

Net Contents:

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

Lot No.:

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

See Inside panels for Additional [Precautionary Statements], [Directions for Use], [Storage and Disposal Statements], [and] [Warranty]

Manufactured by:

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



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.

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.

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:

Neem Oil 70% is a broad spectrum fungicide of certain diseases and controls mites in citrus, deciduous fruits and nuts, vegetables and other miscellaneous crops. Use care when applying near streams, ponds, lakes, or other bodies of water. Do not apply Neem Oil 70% when conditions favor drift or when the likelihood of runoff is high. Do not apply this product through any type of irrigation system.

Thorough coverage is necessary to provide good disease and insect/mite control. Neem Oil 70% prevents fungal attack of plant tissue preventing and controlling black spot on roses, anthracnose, rust and powdery mildew and offers contact activity to mite pressure on the plants. Neem Oil 70% kills eggs, larvae, and adult insects.

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). Use spray solution within several hours of preparation for maximum effectiveness. Do not store diluted solution for later use. 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. Avoid excessive runoff of spray material for maximum control.

Do not apply to known sensitive plant species, such as impatiens flowers, fuchsia flowers, hibiscus flowers, some rose flowers, ornamental olive trees or some carnations varieties,

without prior testing. Do not apply to wilted or otherwise stressed plants, or to newly transplanted materials prior to root establishment. Use with care on plants with tender tissue. Check for leaf burn in small-scale trials prior to use.

When used in conjunction with beneficial insects, it is recommended that a small trial be conducted to assure compatibility before using on a large scale.

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, Captan, Sulfur, Bravo, Echo, chloro-thalonil or other chemically similar products as unpredictable results or leaf burn may occur.

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 gallons of water. Apply Neem Oil 70% at a rate of 1:100 when spraying as a preventative for outdoor applications. Under extreme outdoor conditions, apply Neem Oil 70% at the 1:50 application rate (see APPLICATION INSTRUCTIONS 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.

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, use the higher rate (1:100). 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- 1:100 rate (see APPLICATION INSTRUCTIONS 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.

MITICIDE-INSECTICIDE USE

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. Apply at a rate of 0.5%- 2.0%. Do not exceed 1.0% in the greenhouse. Reapply every 7-21 days until pressure is over.

For Insects: For best results, apply Neem Oil 70% at 0.5% - 2.0% (not to exceed 1.0% in the greenhouse) 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.

CROPS BY TRANSPLANT TYPE
 (including but not limited to)

BULB, COLE, AND LEAFY VEGETABLE TRANSPLANTS	
Refer to USE INSTRUCTIONS for specific application instructions	
Arugula	Garlic
Broccoli	Greens
Broccoli raab	Collard greens
Chinese broccoli (Gail lan)	Mustard greens
Brussels sprouts	Rape greens
Cabbage (heads & leaf)	Kale
Chinese cabbage (Bok choy, Napa)	Kohlrabi
Chinese mustard cabbage (Gai choy)	Leek
Cauliflower	Lettuce (head& leaf
Celery	Low-bok
Celtuce	Onions
Chervil	Orach
Chicory	Parsley
Red Chicory	Purslane
Cilantro	Radicchio
Collards	Rappini
Corn salad	Rhubarb
Cress	Shallots
Watercress	Spinach
Daikon	Chinese spinach (Amaranth, Tampala)
Endive	Swiss chard
Fennel	Turnip tops

CUCURBIT TRANSPLANTS	
Refer to USE INSTRUCTIONS for specific application instructions	
Balsam pears (bitter melons)	Honey balls
Cantaloupes	Melons (incl. hybrids)
Casaba	Honeydew melons
Chinese waxgourds	Muskmelons
Citron melons	Persian melons
Crenshaw	Pumpkins
Cucumbers	Squashes
Gherkins	Watermelons (incl. hybrids)
Gourds	Zucchini

HERBS AND SPICES TRANSPLANTS	
Refer to USE INSTRUCTIONS for specific application instructions	
Anise	Marigold
Balm	Marjoram
Basil	Mint
Borage	Nasturtium
Chamomile	Pennyroyal
Caraway	Peppermint
Catnip	Rosemary
Celery	Rue
Chives	Sage
Coriander	Savory
Cumin	Spearmint
Curry leaf	Sweet bay
Dandelion	Tarragon
Dill	Thyme
Fennel	Wintergreen

LEGUME AND FRUITING VEGETABLE TRANSPLANTS	
Refer to USE INSTRUCTIONS for specific application instructions	
Beans	Peanuts
Broad beans	Pepinos
Calabaza	Peppers
Chickpeas	Pigeon peas
Eggplants	Snow peas
Ground cherries	Soybeans
Guar	Tomatillos
Lentils	Tomatoes
Peas	

ROOT AND TUBER VEGETABLES	
Refer to USE INSTRUCTIONS for specific application instructions	
Artichokes	Potatoes
Beets	Sweet Potatoes
Cardone	Radishes
Carrots	Rutabaga
Cassava	Taro (Dasheen)
Ginger	Turmeric
Ginseng	Turnips
Horseradish	Yams
Parsnips	Yam beans

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 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 use on open blooms Do not use on poinsettias
Outdoor Flowering Plants	1:50 – 1:100 (2.0% – 1.0%)	7-14 days	Do not spray on 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, nurseries, and other 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. Use the high rate (2.0%) for high pest infestations or to control more troublesome pests, such as mites and scales. Determine the best rate for your particular situation.

{ } Symbolizes explanatory text to the reviewer
 [] Indicates optional text

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. Then use a 14-day interval for control.

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 form a uniform, cloudy emulsion.

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.

{-for containers equal to or less than 5 gallons- }

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.

{-for containers greater than 5 gallons-}

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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 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, 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, 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.

Kocide® is a registered trademark of Kocide LLC.
Champ® is a registered trademark of Nufarm Americas Inc.
Morestan® is a registered trademark of Bayer Inc.
Bravo® is a registered trademark of Syngenta Crop Protection, Inc.
Echo® is a registered trademark of Sipcam Agro USA, Inc.

Master Label/Sublabel C – Homeowner

Neem Oil 70%

FUNGICIDE/MITICIDE/INSECTICIDE

For use on roses, flowers, houseplants, ornamental trees and shrubs, fruits, nuts, vegetables,
and home lawns

For use in and around the home and home garden

Controls blackspot, powdery mildew, rust, needle rust, downy mildew, spider mites, aphids,
whiteflies, flower, twig and tip blight, anthracnose, scab, botrytis, alternaria, turf diseases, and
other insect pests

Can be Used Up to Day of Harvest



FOR ORGANIC GARDENING



ACTIVE INGREDIENT:

Clarified Hydrophobic Extract of Neem Oil70%

OTHER INGREDIENTS30%

TOTAL100%

Net Contents:

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

Lot No.:

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

See Inside panels for Additional [Precautionary Statements], [Directions for Use], [Storage and
Disposal Statements], [and] [Warranty]

Manufactured by:

Certis USA, LLC

9145 Guilford Road, Suite 175

Columbia, MD 21046



**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.

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.

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.

ENVIRONMENTAL HAZARDS

Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters or rinsate. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters.

Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

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.

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

GENERAL INFORMATION

- Defends your roses against insects, diseases, and mites
- Do not add adjuvants (spreaders, stickers, extenders, etc.) to Neem Oil 70%
- Stops powdery mildew in 24 hours.
- Kills eggs, larvae, and adult insects.
- Shake well before using.
- Prevents and controls black spot on roses, anthracnose, rust and powdery mildew.
- Do not apply to wilted or otherwise stressed plants, or to newly transplanted materials prior to root establishment.
- May also be used as a dormant or delayed dormant spray to control overwintering eggs of various insects on fruit and shade trees, shrubs, roses, and other ornamentals and vegetables. Spray to visibly wet or until all plant surfaces are completely wet.
- 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.
- 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 bum in small scale trials prior to use.
- Can be used as a leaf polish on hardy plants.

FUNGICIDE USE

For use on Fruits, Vegetables, Herbs, Spices, Roses, Houseplants, Flowers, Trees and Shrubs, Home Lawns

Management of Turf Diseases

Neem Oil 70% may be used on all turf such as Kentucky bluegrass, perennial ryegrass, turf type tall fescue, Bermuda grass, zoysia grass, and St. Augustine grass around the home. Refer to table for detailed application rates.

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

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 and tip blight, and *alternaria*. As a preventative, apply Neem Oil 70% on a 7 to 14 day schedule until 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 fluid ounce) per gallon of water. Mix 0.5 tablespoons (0.25 fluid ounces) of Neem Oil 70% per quart of water. Thoroughly mix solution and spray all plant surfaces (including undersides of leaves) until completely wet. Frequently mix solution as you spray.

Hose End Sprayer Use Instructions:

{Optional Subheadings:}

[USING THE READY SPRAY NOZZLE]

[HOSE END SPRAYER INSTRUCTIONS]

[HOW TO USE THE [INSERT SPRAYER TRADENAME]]

[DIRECTIONS FOR HOSE END SPRAYER]

For optimal performance, do not mix with cold water (less than 34°F)

INSECTICIDE/MITICIDE USE: For Use on FRUITS, 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 2-4 tablespoons (1-2 fluid ounces) per gallon of water. Mix 0.5-1.0 tablespoons (0.25-0.50 fluid ounces) per quart of water. Thoroughly mix solution and spray all plant surfaces (including underside of leaves) until completely wet. Frequently mix solution as you spray.

{If desired, pick one Ready Spray Option. Only one option will appear on any particular FPL.}

{Option #1—Ready Spray Nozzle Option A}

[The sprayer attached to the container is ready-to-use. Simply attach to your garden hose and follow these instructions:

1. Insure the large, round "on/off" knob is set to OFF.
2. Turn on water.
3. PUSH IN small knob near front of sprayer. This allows water and product to mix.
4. Hold sprayer and container level and point towards area to be sprayed.
5. Turn large, round "on/off" knob to ON.
6. Begin spraying product evenly over area you wish to treat.
7. Spray to visibly wet.
8. To stop spraying, turn large, round "on/off" knob to OFF.
9. PULL OUT small knob near front of sprayer. This prevents product from mixing with water.
10. Turn off water at faucet. Relieve water pressure in the hose by turning large, round "on/off" knob ON until water pressure is reduced.
11. Turn the knob to OFF for storage of unused product/and/or disposal of empty container.]

{End of Option #1}

{Option #2—Ready Spray Nozzle Option B}

[The sprayer attached to the container is ready-to-use. Simply attach to your garden hose and follow these instructions:

1. Connect sprayer to hose.
2. Turn on water.
3. To begin spraying, point nozzle in the direction you want to spray.
4. Bend plastic tab back and turn knob back to ON position.
5. Spray evenly to area being treated.
6. To stop spraying, turn knob to OFF position.
7. Turn off water.
8. Relieve water pressure by bending plastic tab back and turning knob to ON position until water slows to a drip. Then turn knob back to OFF position.
9. Disconnect sprayer from hose.]

{End of Option #2}

{Option #3—Ready Spray Nozzle Option C}

1. Shake container well before using.
2. Attach a garden hose to the Ready spray nozzle. For first time use remove the safety tab above the trigger by pushing to the left or right until the tab breaks free.
3. Turn on water at faucet. Extend hose to the farthest area to be treated and work back toward the faucet so you do not come into contact with the treated area.
4. To BEGIN spraying point nozzle toward treatment site and squeeze the trigger to the fully on position. Water will automatically mix with the product.
5. Spray until wet to control listed weeds. Walk at a steady pace while spraying using an even sweeping motion, slightly overlapping treated areas.
6. To STOP spraying release the trigger Turn water off at faucet. To relieve pressure before removing nozzle squeeze the trigger until water stops spraying.
7. To STORE unused product make sure the trigger is in the closed position. Place in a cool area away from heat, sunlight or open flame.]

{End of Option #3}

{Option #4—Ready Spray Nozzle Option D}

1. Shake container well before using.
2. Connect a garden hose to the sprayer nozzle. Make sure switch is fully forward in the “OFF” position.
3. Turn on water at faucet. Extend hose to the farthest area to be treated and work back toward the faucet so you don’t come in contact with the treated area.
4. [Remove safety tab from sprayer’s right side by pulling straight out. [[You may] Discard or keep for future re-use.]]
5. To BEGIN spraying, point nozzle toward treatment site and pull switch backwards [with thumb] [with finger] towards hose connection. Water will automatically mix with the product.
6. Spray until wet [to control insects, fungus and mites]. Walk at a steady pace, working back toward the faucet while spraying using an even sweeping motion, slightly overlapping treated areas.
7. To STOP spraying, push switch forward [with thumb] [with finger] toward nozzle. Turn water off at faucet. To relieve pressure before removing nozzle from hose, pull switch backwards [with thumb] [with finger] towards hose connection until water stops spraying.
8. To STORE unused product, make sure switch is fully forward in the “OFF” position.
9. [Re-install safety tab into sprayer’s right side. With sprayer in the full “OFF” position, push tab into position.]
10. Place in cool area away from heat, sunlight or open flame.]

{End of Option #4}

STORAGE & DISPOSAL

Pesticide Storage: Keep in original container. Store away from direct sunlight, feed, or foodstuffs. Keep container tightly sealed when not in use. Keep from freezing.

Pesticide Disposal and Container Handling:

If empty: Non-refillable container. Do not reuse or refill 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.

{-for containers greater than 5 gallons (may be required for bulk transport of product for repackaging)-}

Non-refillable container. Do not reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ 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 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, 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, 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. To the extent consistent with applicable law, 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.

{Optional label statements}

The following claims and product information may or may not be presented on the product's label and labeling on any sublabel:

- For use on roses, flowers, houseplants, ornamental trees and shrubs, fruits, nuts, vegetables, and home lawns
- For use in and around the home and home garden
- Controls blackspot, powdery mildew, rust, needle rust, downy mildew, spider mites, aphids, whiteflies, flower, twig and tip blight, anthracnose, scab, *botrytis*, *alternaria*, turf diseases, and other insect pests
- Can be Used Up to Day of Harvest
- Multi-purpose fungicide, insecticide, miticide
- The _____ Promise-Satisfaction guaranteed or your money back!
- If you apply _____ brand _____ as directed and you are not completely satisfied, send proof of purchase price from this package and the original cash register receipt to the address below. We will refund the purchase price you paid.
- Notice: To the extent consistent with applicable law, buyer assumes all responsibility for safety and use not in accordance with directions.
- Questions or Comments? Call _____ or visit our website at _____.
- 3 Garden Products in One!
- {Companies may include company specific graphics and images}
- [Spanish language instructions are on [reverse][side][back][other panel]]

{Optional Marketing Claims for use with Hose End Sprayers}

- [New][Easy [to use]] One touch [hand] spray
- [No [twisting]][pulling] [bending][turning][pushing]]. Just [[pull] [squeeze]][the trigger] and spray
- No [complicated] [hard-to-use] levers [or dials]
- Easy on/off-- spray [only] where you want
- [Simply] release trigger [so you don't spray unwanted areas]
- Easy Action [hose end] sprayer
- Just squeeze [and][to] spray
- ErgoShot™ [Sprayer] [with Quick Flip Switch™]
- Quick Switch™ [Sprayer]
- Quick Flip™ [Sprayer]
- AccuShot™ [Sprayer] [with Quick Flip Switch™]
- EzSpray® [with Quick Flip Switch™]
- New [sprayer name]
- Grip – Flip – Spray
- Grip – Flip – Go
- Grip – Switch – Spray
- Grip – Switch – Go
- Aim – Flip – Spray
- Aim – Flip – Go
- Aim – Switch – Spray
- Aim – Switch – Go
- [Just] Switch [Alternates: Flip, Grip] & Spray
- [With] Ambidextrous grip [for comfort]
- [With] Comfortable grip
- Easy & Effortless
- Easy [Alternate: Effortless] to use
- [With] Ergonomic grip [for comfort]
- [With] One-Handed grip [for ease of use] [comfort]
- Quick & Simple
- No twisting. [No fidgeting]. [Just] Switch and spray.
- No twisting. [No fidgeting]. [Just] Flip and spray.
- Switch [Alternates: Flip, Grip] and spray technology
- [With] Quick Flip Switch™ [for ease of use]
- [With] on/off switch [for ease of use]
- [With] switch [for ease of use]
- Simple [single-finger] [thumb] [on/off] switch
- One-handed grip is ambidextrous [and fits all hand sizes]
- Inline hose connection improves comfort [and reduces leaking concerns]
- Broad but targeted spray pattern [for larger areas]
- [Finally] A Ready-to-Spray [RTS] [hose-end sprayer] that truly is ready to spray
- The [new] [sprayer name] brings comfort and ease of use [to killing bugs] [Alternate: bug killing].