

70051-2

2/23/2012

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON D C 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

February 23, 2012

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

Subject Application for Label Notification to correct the Environmental Hazards and Storage and Disposal statements that contained erroneous language listed in the previously approved notification  
Neem Oil 70%  
EPA Reg No 70051-2  
Your submission dated February 9, 2012  
Decision Number 461250

Dear Ms Dively

The Biopesticides and Pollution Prevention Division is in receipt of your application for Notification under PR Notice 98-10 dated above. A preliminary screen of this request has been conducted for its applicability under PR Notice 98-10 and it has been determined that the action(s) requested falls within the scope of PR Notice 98-10. Our records have been duly noted and the label submitted with the application has been stamped "Notification Accepted" and will be placed accordingly in our records. This label supersedes the label stamped "Notification Accepted" dated October 3, 2011 that did not contain the updated language in the Environmental Hazards and Storage and Disposal statements of the homeowner sublabel, which were previously approved by the Agency.

If you have any questions concerning this action, please feel free to contact Mr. Colin Walsh at (703) 308-0298 or via email at [walsh.colin@epa.gov](mailto:walsh.colin@epa.gov)

Sincerely,

*Linda A Hollis*

Linda A Hollis, Chief  
Biochemical Pesticides Branch  
Biopesticides and Pollution Prevention  
Division (7511P)

Please read instructions on reverse before completing form

Form Approved OMB No 2070-0080

Print Form

	United States <b>Environmental Protection Agency</b> Washington DC 20460	<input type="checkbox"/> Registration	OPP Identifier Number
		<input type="checkbox"/> Amendment	
		<input checked="" type="checkbox"/> Other	

Application for Pesticide - Section I

1 Company/Product Number 70051 2	2 EPA Product Manager Linda Hollis	3 Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4 Company/Product (Name) Neem Oil 70%	PM# Biochem Pest Branch	
5 Name and Address of Applicant (Include ZIP Code) Certis USA LLC 9145 Guilford Road Suite 175 Catonsville Maryland 21046 <input type="checkbox"/> Check if this is a new address	6 Expedited Review In accordance with FIFRA Section 3(c)(3) (b)(i) my product is similar or identical in composition and labeling to <input checked="" type="checkbox"/> EPA Reg No _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment Explain below	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application
<input checked="" type="checkbox"/> Notification Explain below	<input type="checkbox"/> Other Explain below

**Explanation** Use additional page(s) if necessary (For section I and Section II)  
Correction of error to Master Label Homeowner Sub label  
*see attached Certification Statement,*

**Notification Accepted**  
Date **FEB 23 2012**  
Reviewer *C Walsh*

Section - III

1 Material This Product Will Be Packaged In				2 Type of Container	
Child Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal	<input type="checkbox"/> Plastic
				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
* Certification must be submitted		If Yes Unit Packaging wgt	No per container	Other (Specify) _____	
3 Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4 Size(s) Retail Container		5 Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6 Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1 Contact Point (Complete items directly below for identification of individual to be contacted if necessary to process this application)		
Name Christine A Dively	Title Director of Reg Affairs	Telephone No (Include Area Code) 301 483 3806
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true accurate and complete I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law		6 Date Application Received (Stamped)
2 Signature <i>Christine A Dively</i>	3 Title Director of Reg Affairs	
4 Typed Name Christine A Dively	5 Date February 9 2012	

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Certis USA LLC  
9145 Guilford Road  
Suite 175  
Columbia MD 21046  
**(301) 604 7340**  
FAX (301) 604 7015  
www.certisusa.com

February 9 2012

Ms Linda Hollis, Chief  
Biochemical Pesticides Branch  
Biopesticides and Pollution Prevention Division (7504P)  
Office of Pesticide Programs  
U S Environmental Protection Agency  
Room S-4900 One Potomac Yard  
2777 South Crystal Drive  
Arlington, VA 22202-4501

**Re FPA Registration Number 70051-2, Neem Oil 70% Revised Master Label per Notification**

Dear Ms Hollis

On behalf of Certis U S A , L L C I am respectfully submitting the revised Master Label for Neem Oil 70%, EPA Reg No 70051-2 Text has been added to this label via Notification, and the Notification has been accepted (copy attached) Unfortunately, the text was added to a previously accepted label that did not have the updated Environmental Hazards and Container Handling revisions (that were also previously accepted by the Agency)

The purpose of the current submission is to correct this inadvertent error and have a label that consists of all previously accepted text added to EPA's Pesticide Product Labeling System

Please do not hesitate to contact me if you have any questions about this submission I can be reached by telephone at 301-483-3806 or by email at [cdively@certisusa.com](mailto:cdively@certisusa.com)

No changes have been made to the Master Label that were not previously approved/accepted by the Agency

Sincerely

Christine A Dively  
Director of Regulatory Affairs  
Certis USA

enclosure

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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 sizes

**Neem Oil 70%**  
**Fungicide/Miticide/Insecticide**

**Sublabel A Agricultural Uses**

**Sublabel B Commercial Greenhouse, Nurseries, Ornamentals**

**Sublabel C Homeowner Use**

**Alternate Brand Names Trilogy, Triact 70EC, Trilogy PHC, Ferti-lome Rose, Flower & Vegetable Spray, Ferti-lome Triple Action Plus, Garden Safe Brand Neem Oil Extract Concentrate, Garden Safe Fungicide 3 Concentrate, UltraStop Fruit Tree 3-in-1 Concentrate, Concern From the Earth For the Earth Garden Defense Multi-Purpose Spray Concentrate, Zamzows Neem Oil Concentrate**

**Active Ingredient**

Clarified Hydrophobic Extract of Neem Oil 70 00%

**Other Ingredients** 30 00%

**Total** 100 00%

**FPA Registration Number 70051-2**

**EPA Establishment Number 70051-CA-001**

**Notification Accepted**

**Date FEB 23 2012**

**Reviewer C Walsh**

**Manufactured by**

**Certis U S A , L L C  
9145 Guilford Road, Suite 175  
Columbia, Maryland 21046**

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# 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**

Manufactured by  
Certis USA L L C  
9145 Guilford Road  
Suite 175  
Columbia MD 21046

### CERTIS

#### 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 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 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 washwater or rinseate

##### 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 nowers 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 1 500 (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

**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 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

**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	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

**AGRICULTURAL USE DIRECTIONS (continued)**

**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

**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 Caplan 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 per acre (as a fungicide in EPA registered products such as Kocide® and Champ®) as a preventative disease spray tank mixture

Use Neem Oil 70% on citrus 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

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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 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 or 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

**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

**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	Olalie berries
Currants	Raspberries (black & red)
Dewberries	Strawberries
Elderberries	Youngberries
Gooseberries	

**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

**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 (Gai lon)	Mustard greens
Brussels sprouts	Rape greens
Cabbage (head & 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	Raddichio
Collards	Rappini
Corn salad	Rhubarb
Cress	Shallots
Watercress	Spinach
Daikon	Chinese Spinach (Amaranth Tampala)
Endive	Swiss chard
Fennel	Turnip tops



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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	

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

HERBS AND SPICES	
Refer to specific application instructions found directly below the heading Agricultural Use Directions	
Crops (including but not limited to)	
Anise	Mangold
Balm	Ma oram
Basil	Mint
Borage	Nasturtium
Camomile	Pennyroyal
Caraway	Peppermint
Catnip	Rosemary
Celery	Rue
Chives	Sage
Coriander	Savory
Cumin	Spearmint
Curry leaf	Sweet bay
Dandelion	Tarragon
Dill	Thyme
Fennel	Wintergreen

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 (Quanabanos)
Sweet corn	Star apples
Cotton	Sugarcane
Hops	Sunflowers
Jicama	Tobacco
Jojoba	Wheat

Pest Control	Suppression	Diseases	
Aphids	Whiteflies	Alternaria	Molds
Mealybugs	Thrips	Anthracoze	Scabs
Mites		Early blight	Rusts
Rust mites		Leaf blight	Shothole
Spider mites		Botrytis	
Scales		Greasy spot	
(Soft scale)		Leaf Spot	
		Downy mildew	
		Post bloom fruit drop	
		Powdery mildew	

**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 WC)

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

**Container Handling** Nonrefillable container Do not reuse or refill this container Triple rinse container (or equivalent) promptly after emptying Triple rinse as follows Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip Fill the container 1/4 full with water and recap Shake for 10 seconds Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal Drain for 10 seconds after the flow begins to drip Repeat this procedure two more times Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration or if allowed by state and local authorities by burning If burned stay out of smoke

or for 250-gallon refillable containers

**Refillable container** Refill this container with pesticide only Do no 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**

Certs 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 Griffin L L C  
 Champ® is a registered trademark of Agtrol Chemical Products  
 Morestar® is a registered trademark of Bayer Inc  
 Caplan® is a registered trademark of Drexel Chemical Company  
 Bravo® is a registered trademark of Syngenta Crop Protection Inc  
 Echo® is a registered trademark of Spcam Agro USA Inc

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# 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 2.5 Gallons

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

Manufactured by  
Certis USA L L C  
9145 Guilford Road  
Suite 175  
Columbia MD 21046

### CERTIS

KEEP OUT OF REACH OF CHILDREN  
**CAUTION**

### 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.

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.

**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.  
Hot Line Number: 1-800-255-3924.

**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 eating. As soon as possible, wash thoroughly and change into clean clothing.

**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.

**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 washwater 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.

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## DIRECTIONS FOR USE

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

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

### General Information

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

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

### AGRICULTURAL USE REQUIREMENTS (continued)

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

**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 Caplan Sulfur Bravo Echo chlorothalonil 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 (including but not limited to) BY TRANSPLANT TYPE**

**CUCURBIT TRANSPLANTS**

Refer to USE INSTRUCTIONS for specific application instructions

Balsam pears (bitter melons)	Honey balls
Cantaloupes	Honeydew melons
Casaba	Melons (incl hybrids)
Chinese waxgourds	Muskmelons
Citron melons	Persian melons
Crenshaw	Pumpkins
Cucumbers	Squashes
Gherkins	Watermelons (incl hybrids)
Gourds	Zucchini

**BULB, COLE AND LEAFY VEGETABLE TRANSPLANTS**

Refer to USE INSTRUCTIONS for specific application instructions

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

**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
Grapes	Soybeans
Ground cherries	Tomatillos
Guar	Tomatoes
Lentils	
Peas	

**ROOT AND TUBER VEGETABLE TRANSPLANTS**

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

**HERBS AND SPICES TRANSPLANTS**

Refer to USE INSTRUCTIONS for specific application instructions

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

**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 spray  
 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 Do not use on ponsettias
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	

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MANAGEMENT OF TURF DISEASES			
SPRAY TARGET	CONCENTRATION	SPRAY INTERVAL	PRECAUTIONS
Snow Mold	1 100 1 500 (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

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 (112) 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

<p align="center"><b>STORAGE AND DISPOSAL</b></p> <p>Do not contaminate water food or feed by storage and disposal</p> <p><b>Pesticide Storage</b> 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)</p> <p><b>Pesticide Disposal</b> Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility</p> <p><b>Container Handling</b> Nonrefillable container Do not reuse or refill this container Triple rinse container (or equivalent) promptly after emptying Triple rinse as follows Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip Fill the container 1/4 full with water and recap Shake for 10 seconds Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal Drain for 10 seconds after the flow begins to drip Repeat this procedure two more times Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration or if allowed by state and local authorities by burning If burned stay out of smoke</p>
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**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 Griffin LLC  
Champ® is a registered trademark of Agtrol Chemical Products  
Morestan® is a registered trademark of Bayer Inc  
Caplan® is a registered trademark of Drexel Chemical Company  
Bravois a registered trademark of Syngenta Crop Protection Inc  
Echo® is a registered trademark of Sipcam Agro USA Inc

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# Master Label/ Sublabel C - Homeowner Neem Oil 70%

**FUNGICIDE/MITICIDE/INSECTICIDE**

*For use on roses flowers, houseplants ornamental trees and shrubs, fruits, nuts, and vegetables, 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, twig and  
tip blight, anthracnose, scab and flower, 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 Oil

70%

Other Ingredients

30%

Total

100%

### Net Contents

32 ounces (1 quart) (0.946 liters)

EPA Reg No 70051 2

EPA Est No 70051 CA 001

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See inside panels for additional precautionary statements

Manufactured by  
Certis USA L L C  
9145 Guilford Road  
Suite 175  
Columbia MD 21046

**CERTIS**

### FIRST AID

**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

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

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

### PRECAUTIONARY STATEMENTS

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION**  
Causes moderate eye irritation Harmful if absorbed through skin 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

**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

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

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 burn 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 Bermudagrass zoysiagrass and St Augustinegrass around the home Refer to table for detailed application rates

**Management of Turf Diseases**

Spray Target	Concentration	Spray Interval	Precautions
Snow Mold	1 100 1 500 (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**

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

Covers 5 000 sq ft or equivalent per 32 oz container size

**Alternate Hose End Sprayer Use Directions**

**Optional Hose End Sprayer Use Instructions**

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

**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

**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

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**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

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

- 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
- Questions or Comments? Call \_\_\_\_\_ or visit our website at \_\_\_\_\_