NOTICE OF PESTICIDE:

x Registration

Reregistration (under FIFRA, as amended)



U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Biopesticides and Pollution Prevention Division (7501W) 401 "M" St., S.W. Washington, D.C. 20460

EPA Reg. Number:

Date of Issuance:

70051-2

JUN 2 - 1997

Term of Issuance: Unconditional

Name of Pesticide Product:

Neem Oil 70% Fungicide/Insecticide/ Miticide

Name and Address of Registrant (include ZIP Code):

Thermo Trilogy Corporation 7500 Grace Drive Columbia MD 21044

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA sec. 3(c)(5) subject to the comments listed below:

- 1. Make the following label changes:
 - a. Add the phrase "EPA Registration Number 70051-2" to your label before you release the product for shipment.
 - b. Under the Storage and Disposal heading, add this general statement: "Do not contaminate water, food, or feed by storage and disposal." Also, change the subheading "Storage" to "Pesticide Storage."
 - c. Some of the bullets under General Information are repetitive and redundant. Please delete repetitious statements.

(continued on page 2)

Signature of Approving Official:

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- d. Delete any reference to "organic" from the label. This term is no longer allowed on pesticide labels. Specifically, delete the statement, "Organic Insecticide/Fungicide/Miticide" from General Information, and any other statements making similar claims.
- e. Please note that the basic confidential statement of formula (CSF) dated 4/30/97 is the only valid formulation for this product at this time. We have not yet completed review of the alternate formulations 1,2,3, & 4, and we will inform you when the review is complete and any of these alternates become acceptable. In the meanwhile, submit another copy of the CSF for alternate formulation 4, and make sure that you put a date in column 21.
- 2. Submit five copies of the final printed labeling before you release this product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

Unconditional registration does not eliminate the need for continual reassessment of a pesticide. If EPA determines, at any time, that additional data are required to maintain in effect, an existing registration, the Agency will require submission of such data under Section 3(c)(2)(B) of FIFRA.

A stamped copy of the label is enclosed for your records.

Sincerely,

Janet L. Andersen, Director Biopesticides and Pollution Prevention Division (7501W)

Neem Oil 70%

Broad Spectrum Insecticide/Fungicide/Miticide

For Indoor/Outdoor Use On Ornamental Flowering Plants, Trees, Shrubs, Foliage, Vegetables, Fruits, Nuts, and Row Crops Grown on Farms and in Nurseries, Greenhouses, Homes, and Residential and Commercial Landscapes Controls Fungal Diseases Including Black Spot, Mildews, Rusts, and Scab Kills Insects Including Whiteflies, Aphids, Mites, and Scales

ACTIVE INGREDIENT:

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

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

KEEP OUT OF REACH OF CHILDREN CAUTION

EPA Reg. No. 70051-_

EPA Est. No.

Net Contents: _

Composition covered by US Patents 5,298,251; 5,356,628; 5,372,817; 5,405,612; and 5,409,708.

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.

STATEMENT OF PRACTICAL TREATMENT

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

IF IN EYES: Wash with plenty of water. Call physician if irritation persists.

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 polyvinylchloride (PVC) or Viton.
- Shoes plus socks.

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

User Safety Recommendations: Users should:

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

ACCEPTED with COMMENTS In EPA Letter Dated

S MUL 1997

Under the Federal Insecticide, Fundicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

MANUFACTURED BY: THERMO TRILOGY CORPORATION

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ENVIRONMENTAL HAZARDS

This product may be hazardous to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

BEE HAZARD

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

PHYSICAL AND CHEMICAL HAZARDS Do not use or store near heat or open flame,

DIRECTIONS FOR USE

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

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

STORAGE AND DISPOSAL

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 60°F (16°C).

Pesticide Disposal: Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

Container Disposal: Triple rinse. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

General Information:

- For effective control of black spot on roses.
- Broad spectrum disease control.
- Disease preventative.
- Effective botanical disease control.
- Kills eggs, larvae, and adult insects.
- Prevents fungal attack of plant tissues.
- Prevents and controls black spot on roses, anthracnose, rust, and powdery mildew.
- All-Purpose Insecticide/Fungicide/Miticide
- Multi-Purpose Insecticide/Fungicide/Miticide
- Kills insects and their eggs.
- Organic Insecticide/Fungicide/Miticide
- Formulated for interiorscape use.
- Not for use in food handling areas.
- Shake well before using.
- For best results, maintain constant agitation in spray equipment.

7500 Grace Drive, Columbia, MD 21044

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- Sonification equipment is not recommended because it may cause the emulsion to separate.
- For optimal performance, do not mix with cold water (less than 55°F).
- Prevents and controls black spot on roses, anthracnose, rust, and powdery mildew.
- Neem Oil 70% is most effective when applied in early to mid-morning or late afternoon when adult pests, such as whiteflies, are normally sedentary on the undersides of the foliage.
- Spray solutions should be used within several hours of preparation for maximum effectiveness. Do not store diluted solution for later use.
- Do not apply to witted or otherwise stressed plants, or to newly transplanted materials prior to root establishment.
- Do not apply to known sensitive plant species, such as impatiens flowers, fuchsia flowers, hibiscus flowers, some rose flowers, ornamental clive trees, or some carnation varieties without prior testing.
- 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.
- As with other oil-based products, care should be exercised in timing applications to early morning/late evening to minimize the potential for leaf burn.
- Use with care on plants with tender tissue. Check for leaf burn in small-scale trials prior to use.
- 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:

- · Coveralis.
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinylchloride (PVC) or Viton.
- Shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce

agricultural plants on farms, forests, nurseries, or greenhouses.

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

TANK MIXING

Neem Oil 70% has been found to be compatible with most commonly used fungicides, insecticides, and fertilizers. Physical compatibility should first be checked by using the correct proportion of products in a small jar test. Growers should then test tank-mix combinations for phytotoxicity on a sample of plants prior to use. This is also recommended with combinations used before as environmental conditions can alter the interaction between compounds. 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.

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, and flower, twig, and tip blight.

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 as a foliar spray. Neem Oil 70% should be used at the rate of 1 gallon per 100-200 gallons of water, depending on the level of disease pressure. The lower rate (1:200) can be used when spraying as a preventative in a greenhouse while the higher rate (1:100) is needed for outdoor applications. Determine the best rate for your particular situation.

Greenhouse:

When Neem Oil 70% is used as a preventative, the lower rate (1:200) will provide adequate control for most greenhouse situations. If disease pressure is evident, the higher rate (1:100) is recommended. Applications for disease prevention should be made on a 7-14 day schedule depending on the anticipated severity of the disease pressure. To control existing disease, Neem Oil 70% should be applied on a 7-day schedule until the disease pressure is eliminated. A 14-day schedule should then be used to prevent disease pressure from returning. NOTE: Greenhouse roses should only be sprayed in a rotations program which includes Neem Oil 70% once every 4 weeks.

Landscape Ornamentals:

In outdoor landscape applications, it is best to apply Neem Oil 70% at the 1:100 rate. This will provide the necessary control under the extreme outdoor conditions. When using Neem Oil 70% as a preventative, applications should be made on a 14-day schedule. If disease is present, a 7-day application schedule should be used a 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 55°F or greater before filling to desired level. If water temperature is below 55°F, premix Neem Oil 70% at a 1:1 ratio with tepid water to ensure good

emulsification. Then dilute to final volume. When combining with other products, such as wettable powder-insecticides or fungicides, add these items first when the tank is approximately 1/3 full. Ensure that there is good agitation while mixing for complete emulsification. Maintain agitation during spray application. Do not use if this oil does not emulsify.

APPLICATION INSTRUCTIONS:

Apply to runoff at 25-40 psi with hand sprayer or 100-200 psi with power sprayer as a fine spray to both leaf surfaces. Excessive application is unnecessary and should be avoided.

	MANAGEMENT OF LANDS	AFE AND UNNAMENTAL L	NSEASES
SPRAY TARGET	CONCENTRATATION	SPRAY INTERVAL	PRECAUTIONS
Potted Plants (Greenhouses)	1:100 - 1:200 (1.0% - 0.5%)	14 Days	Trial first on open blooms
Flowering Bench Crops (Greenhouse)	1:100 - 1:200 (1.0% - 0.5%)	7-14 Days	Trial first on open blooms—not suggested for cut roses
Outdoor Flowering Plants	1:100 - 1:200 (1.0% - 0.5%)	7-14 Days	Do not spray impatiens flowers
Outdoor Woody Plants	1:50 - 1:100 (2.0% - 1.0%)	14 Days	

MANAGEMENT OF TURF DISEASES									
SPRAY TARGET	CONCENTRATION	SPRAY INTERVAL	PRECAUTIONS						
Snow Mold	1:100 - 1:50 (1.0% -2.0%)	14 Days	In fall before first snow						
Dollar Spot	1:100 - 1:200 (1.0% - 0.5%)	14 Days	At first sign of disease						
Brown Patch	1:100 - 1:200 (1.0% - 0.5%)	14 Days	At first sign of disease						

INSECTICIDE USE

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

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

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

MIXING INSTRUCTIONS:

Add Neem Oil 70% to one-half (1/2) full tank under agitation containing water of 55°F or greater before filling to desired level. If water temperature is below 55°F, premix Neem Oil 70% at 1:1 ratio with tepid water to ensure good emulsification. Then dilute to final volume. When combining with other products, such as wettable powder insecticides or fungicides, add these items first when the tank is approximately 1/3 full. Ensure that there is good agitation while mixing for complete emulsification. Maintain agitation during spray application. Do not use if this oil does not emulsify.

APPLICATION INSTRUCTIONS:

Apply to runoff at 25-40 psi with hand sprayer or 100-200 psi with power sprayer as a fine spray to both leaf surfaces. Thorough coverage of plant pests is necessary to ensure efficacy. However, excessive application is unnecessary and should be avoided.

AGRICULTURAL USE DIRECTIONS

- Do not apply this product through any type of irrigation system.
- Use care when applying near streams, ponds, lakes, or other bodies of water. Neem Oil 70% should not be applied when weather conditions favor drift or when the likelihood of runoff is high.
- Thorough plant coverage is essential to obtain optimal levels of control.
- Consult local agricultural extension service or experiment station for detailed information on timing of applications for the most effective control in your area.

MIXING INSTRUCTIONS:

Add Neem Oil 70% to one-half (1/2) full tank under agitation containing water of 55°F or greater before filling to desired level. If water temperature is below 55°F, premix Neem Oil 70% at 1:1 ratio with tepid water to ensure good emulsification. Then dilute to final volume. When combining with other products, such as wettable powder insecticides or fungicides, add these items first when the tank is approximately 1/3 full. Ensure that there is good agitation while mixing for complete emulsification. Maintain agitation during spray application. Do not use if this oil does not emulsify.

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DILLITION TABLE

Gallons of 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
30	0.15 (19 oz)	0.3 (38 oz)	0.45 (58 oz)	0.6 (77 oz)
50	0.25 (32 oz)	0.5 (64 oz)	0.75 (96 oz)	1.0
75	0.375 (48 oz)	0.75 (96 oz)	1.125	1,5
100	0.5	1.0	1.5	2.0
125	0.625 (80 oz)	1.25	1.875	2.5
150	0.75	1.5	2.25	3.0
175	0.875 (112 oz)	1.75	2.625	3.5
200	1.0	2.0	3.0	4.0
225	1.125	2.25	3.375	4.5
250	1.25	2.5	3.75	5.0

- For Insects and Mites: For best results, apply Neem Oil 70% thoroughly before adult Insects, mites, or eggs are present in large numbers.
- For Diseases: Apply Neem Oil 70% as a 0.5-1.0% solution in sufficient amounts of water to achieve complete coverage of foliage. (See following table for specific directions for different crop groupings.) When used as a foliar fungicide, begin applications when conditions are favorable for disease but before infection. Neem Oil 70% may be applied every 7-14 days until threat of disease is over. Neem Oil 70% may be used in rotation with other fungicides to increase the spectrum of control. If Neem Oil 70% is being used to control insects and/or mites along with diseases, rates of up to 2% Neem Oil 70% may be used. In this case, follow application directions for insect and mite control.

CITRUS, POME, STONE, AND TROPICAL FRUITS

INSECTICIDE/MITICIDE USE:

Application: Apply at first sign of pests or pest damage. Apply in a solution of sufficient volume to achieve complete coverage of foliage. Repeat applications as needed for adequate control every 7-10 days. Specific directions are provided below.

Citrus—Apply Neem Oil 70% at a rate of 0.5-2.0% in 30-250 gallons of water per acre on photosynthesizing plants. Do not apply more than 5 gallons of Neem Oil 70% per acre. Avoid tank mixes with MORESTAN, VENDEX, or chemically-similar products as unpredictable results or leaf burn may occur. To avoid possible blemishes on fruit, do not use on lemons within 60 days of harvest. Pome, Stone & Tropical Fruits—Apply a 0.5-2.0% solution of Neem Oil 70% in no less than 30 gallons of water per acre on photosynthesizing plants. As a dormant oil, use Neem Oil 70% as a 2% solution in 30-250 gallons of water. Do not apply more than 5 gallons of Neem Oil 70% per acre.

FUNCIONE USE

Application: Apply Neem Oil 70% at a rate of 0.5-1.0% in 30-250 gallons of water per acre on photosynthesizing plants. Do not apply more than 2.5 gallons of Neem Oil 70% per acre. For all other trees, apply a 0.5-1.0% solution of Neem Oil 70% in no less than 30 gallons of water per acre.

Citrus-Avoid tank mixes with MORESTAN, VENDEX, or chemically similar products as unpredictable results or leaf burn may

occur. To avoid possible blemishes on fruit, do not use on lemons within 60 days of harvest

decar. To avoid poo	CROPS	it, do not use on temon		STS	DISEASES
Including but not limited to:					
Apples Apricots Avocados Bananas Calamondin Cherries Barbados cherries Sour cherries Sweet cherries Cherimoya Citrus citron Citrus hybrids Coconuts Crabapples Dates Feijoa Figs Grapefruits Guavas/ Jujubes Kiwifruit	Kumquats Lemons Limes Loquats Lychee Mangoes Mandarins Satsuma mandarins Nectarines Olives Oranges Papayas Passion fruit Peaches Pears Oriental pears Pineapples Plantains Plums Chickasaw plums	Damson plums Japanese plums Pomegranates Prunes Pummelos Quinces Tangelos Tangerines	Aphids Apple grain aphids Black cherry aphids Green apple aphids Leafcurl aphids Mealy plum aphids Rosy apple aphids Woolly aphids Citrus blackflies Fruit flies Leafminers Citrus leafminers Mealybugs	Mites Rust mites Spider mites Psyllids Scales Calico scales Frosted scales Lecanium scales San Jose scales Whiteflies Citrus whiteflies Silverteaf whiteflies Sweetpotato whiteflies	Anthracnose Altemaria Post-bloom fruit drop Mildews Downy mildew Powdery mildew Scabs Greasy spot

CUCURBITS

Insecticide/Miticide Use:

Application: Apply Neem Oil 70% at a rate of 0.5-2.0% in 30-100 gallons of water per acre. Apply no more than 2 gallons of Neem Oil 70% per acre in solution. Apply at first sign of pests or pest damage. Apply in a solution of sufficient volume to achieve complete coverage of foliage. Repeat applications as needed for adequate control every 7-10 days.

Application: Apply Neem Oil 70% at a rate of 0.5-1.0% in 30-100 gallons of water per acre. Apply no more than 1 gallon of Neem Oil 70% per acre in solution.

CROPS Including but not limited to:		PE	PESTS	
Balsam pears (bitter melons) Cantaloupes Casaba Chinese waxgourds Citron melons Crenshaw Cucumbers Gherkins Gourds Honey balls	Melons (incl. hybrids) Honeydew melons Muskmelons Persian melons Pumpkins Squashes Watermelons (incl. hybrids) Zucchini	Aphids Leafcurl aphids Woolly aphids Leafminers Mites Spider mites Scales Calico scales Frosted scales Lecanium scales	San Jose scales Squash bugs Whitefiles Greenhouse whitefiles Silverteaf whitefiles Sweetpotato whitefiles	Mildews Downy mildew Powdery mildew

BULB AND COLE VEGETABLES

Insecticide/Fungicide Use:

Application: Apply Neem Oil 70% at a rate of 0.5-2.0% in 30-100 gallons of water per acre. Apply no more than 2 gallons of Neem Oil 70% per acre in solution. Apply at first sign of pests or pest damage. Apply in a solution of sufficient volume to achieve complete coverage of foliage. Repeat applications as needed for adequate control every 7-10 days.

Fungicide Use:

Application: Apply Neem Oil 70% at a rate of 0.5-1.0% in 30-100 gallons of water per acre. Apply no more than 1 gallon of Neem Oil 70% per acre in solution.

	CROPS		PE	STS	DISEASES
Including but not limited to:			A shids	Carabana	Alternation
Arrugula Broccoli Broccoli raab Chinese broccoll (Gal lon) Brussels sprouts Cabbage (head & leaf) Chinese cabbage (Bok choy, Napa) Chinese mustard cabbage (Gal choy) Cauliflower Celery Cettuce Chervil	Chicory Red chicory Cilantro Collards Corn salad Cress Watercress Daikon Endive Fennel Garlic Greens Collard greens Mustard greens Rape greens Kale	Leek Lettuce (head & leaf) Low-bok Onions Orach Parsley Purslane Raddichio Rappini Rhubarb Shallots Spinach Chinese spinach (Amaranth, Tampala) Swiss chard Turnip tops	Aphids Woolly aphids Leafminers Mites Rust mites Spider mites Whiteflies	Greenhouse whiteflies Silverleaf whiteflies Sweetpotato whiteflies	Altemaria Botrytis Mildews Downy mildew Powdery mildew Rusts White rust

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LEGUME AND FRUITING VEGETABLES

INSECTICIDE/FUNGICIDE USE:

Application: Apply Neem Oil 70% at a rate of 0.5-2.0% in 30-100 gallons of water per acre. Apply no more than 2 gallons of Neem Oil 70% per acre in solution. Apply at first sign of pests or pest damage. Apply in a solution of sufficient volume to achieve complete coverage of foliage. Repeat applications as needed for adequate control every 7-10 days.

Fungicide Use:

Application: Apply Neem Oil 70% at a rate of 0.5-1.0% in 30-100 gallons of water per acre. Apply no more than 1 gallon of Neem Oil 70% per acre in solution.

CROPS Including but not limited to:			PE	STS	DISEASES	
Beans Broad beans Calabaza Chickpeas Eggplants Ground cherries	Guar Lentils Peas Peanuts Pepinos Peppers	Pigeon peas Snow peas Soybeans Tomatillos Tomatoes	Aphids Woolly aphids Beetles Bean leaf beetles Colorado potato beetles Mexican bean beetles Leafminers Mites Rust mites Psyllids	Scales Calico scales Frosted scales Lecanium scales San Jose scales Whiteflies Greenhouse whiteflies Silverleaf whiteflies Sweetpotato whiteflies	Blights Leaf blight Mildews Powdery mildew Molds Gray mold Leaf spots Rusts	

ROOT AND TUBER VEGETABLES

INSECTICIDE/MITICIDE USE:

Application: Apply Neem Oil 70% at a rate of 0.5-2.0% in 30-100 gallons of water per acre. Apply no more than 2 gallons of Neem Oil 70% per acre in solution. Apply at first sign of pests or pest damage. Apply in a solution of sufficient volume to achieve complete coverage of foliage. Repeat applications as needed for adequate control every 7-10 days.

Potatoes—Neem Oil 70% may be applied every 7 days to seed potatoes and as needed for table and other potatoes. Use caution when mixing Neem Oil 70% with organophosphate insecticides. Test such tank mixes for phytotoxicity on a small number of plants first.

Fungicide Use:

Application: Apply Neem Oil 70% at a rate of 0.5-1.0% in 30-100 gallons of water per acre. Apply no more than 1 gallon of Neem Oil 70% per acre in solution.

Potatoes—Neem Oil 70% may be applied every 7 days to seed potatoes and as needed for table and other potatoes. Use caution when mixing Neem Oil 70% with organophosphate insecticides. Test such tank mixes for phytotoxicity on a small number of plants first.

CROPS Including but not limited to:			PESTS		DISEASES	
Artichokes Beets Cardone Carrots Cassava Ginger	Horseradish Parsnips Potatoes Sweet potatoes Radishes Rutabaga	Taro (Dasheen) Turmenc Turnips Yams Yam beans	Aphids Beetles Colorado potato beetles Mites Rust mites Spider mites Psyllids Scales Calico scales Frosted scales	Lecanium scales San Jose scales Whiteflies Greenhouse whiteflies Silverteaf whiteflies Sweetpotato whiteflies	Blights Mildews Powdery mildew Rusts	

SMALL FRUITS AND BERRIES

INSECTICIDE/FUNGICIDE USE:

Application: Apply Neem Oil 70% at a rate of 0.5-2.0% in 30-250 gallons of water per acre. Apply no more than 5 gallons of Neem Oil 70% per acre in solution. Apply at first sign of pests or pest damage. Apply in a solution of sufficient volume to achieve complete coverage of foliage. Repeat applications as needed for adequate control every 7-10 days.

Fungicide Use:

Application: Apply Neem Oil 70% at a rate of 0.5-1.0% in 30-250 gallons of water per acre. Apply no more than 2.5 gallons of Neem Oil 70% per acre in solution.

CROPS Including but not limited to:			PESTS		DISEASES	
Blackberries Blueberries Boysenberries Cranberries Currants Dewberries Elderberries	Gooseberries / Grapes / Huckieberries / Loganberries Olallie berries Raspberries (black & red)	Strawberries / Youngberries ·	Aphids Woolly aphids Leafrollers Mites Rust mites Spider mites Scales	Calico scales Frosted scales Lecanium scales San Jose scales	-Mildews Downy mildew Powdery mildew -Rots Black rot	

HERBS AND SPICES

INSECTICIDE/FUNGICIDE USE:

Application: Apply Neem Oil 70% at a rate of 0.5-2.0% in 30-100 gallons of water per acre. Apply no more than 2 gallons of Neem Oil 70% per acre in solution. Apply at first sign of pests or pest damage. Apply in a solution of sufficient volume to achieve complete coverage of follage. Repeat applications as needed for adequate control every 7-10 days.

Fungicide Use:

Application: Apply Neem Oil 70% at a rate of 0.5-1.0% in 30-100 gallons of water per acre. Apply no more than 1 gallon of Neem Oil 70% per acre in solution.

CROPS Including but not limited to:			PESTS		DISEASES	
Anise Balm / Basil Borage / Chamomile Caraway Catnip / Celery / Chives Coriander	Cumin Curry leaf Dandelion Dill / Fennel Marigold / Marjoram Mint / Nasturtium / Pennyroyal	Peppermint / Rosemary Rue Sage / Savory Spearmint Sweet bay Tarragon Thyme Wintergreen /	Aphids Woolly aphids Mites Rust mites Spider mites Scales Calico scales	Frosted scales Lecanium scales San Jose scales	Mildews Powdery mildew Leaf spot	

NUTS

INSECTICIDE/FUNGICIDE USE:

Application: Apply Neem Oil 70% at a rate of 0.5-2.0% in 30-250 gallons of water per acre. Apply no more than 2 gallons of Neem Oil 70% per acre in solution. Apply at first sign of pests or pest damage. Apply in a solution of sufficient volume to achieve complete coverage of foliage. Repeat applications as needed for adequate control every 7-10 days. As a dormant oil, use Neem Oil 70% as a 2% solution in 30-250 gallons of water. Do not apply more than 5 gallons of Neem Oil 70% per acre.

Walnuts—Avoid spraying after husk split.

Fungicide Use:

Application: Apply Neem Oil 70% at a rate of 0.5-1.0% in 30-250 gallons of water per acre. Apply no more than 2.5 gallons of Neem Oil 70% per acre in solution.

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-	-							

CROPS Including but not limited to:			PESTS		DISEASES
Almonds . Beach nuts Brazil nuts Butternuts Cashews Chestnuts	Chinquapins Filberts / Hickory nuts / Japanese horsechestnuts / Macadamia nuts	Pecans / Pistachios / Walnuts /	Aphids Woolly aphids Leafrollers Fruit tree leafrollers Mites Rust mites Spider mites Scales Calico scales	Frosted scales Lecanium scales San Jose scales Weevils Chestnut weevils	Leaf spot

CEREAL GRAINS AND OTHER MISCELLANEOUS CROPS

INSECTICIDE/FUNGICIDE USE:

Application: Apply Neem Oil 70% at a rate of 0.5-2.0% in 30-150 gallons of water per acre. Apply no more than 3 gallons of Neem Oil 70% per acre in solution. Apply at first sign of pests or pest damage. Apply in a solution of sufficient volume to achieve complete coverage of foliage. Larger plants will require higher amounts of water to obtain good coverage. Repeat applications as needed for adequate control every 7-10 days.

Fungicide Use:

<u>Application</u>: Apply Neem Oil 70% at a rate of 0.5-1.0% in 30-150 gallons of water per acre. Apply no more than 1.5 gallons of Neem Oil 70% per acre in solution. Apply in a solution of sufficient volume to achieve complete coverage of foliage. Larger plants will require higher amounts of water to obtain good coverage.

CROPS Including but not limited to:			PESTS		DISEASES	
Acerola Alfalfa Arracaga (Apio) Asparagus Barley Breadfruit Buckwheat Canola Coffee Conander Com Poocom	Sweet corn × Cotton Hops / Jicama Jojoba Kinep Mushrooms Oats Okra Quenepa Nispero Rice	Safflower / Seagrapes Sesame Sorghum Soursup (Quanabanas) Sugarcane Star apples Sunflowers / Tobacco Wheat	Beetles Asparagus beetles Lygus bugs Thrips Whiteflies	Greenhouse whiteflies Silverleaf whiteflies Sweetpotato whiteflies	Rusts	

Warranty

Thermo Trilogy Corporation 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.