



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Biopesticides and Pollution Prevention Division (7511P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

96019-4

Date of Issuance:

7/31/2024

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

MargoShine

Name and Address of Registrant (include ZIP Code):

Kriya Biosys Private Limited
No. 114, Orchid Block
Keerthi Flora, Brookefield, Bangalore
Karnataka, India 560 037

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 under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA or the Act).

Registration is in no way to be construed as an endorsement or recommendation of this product by the U.S. Environmental Protection Agency (EPA). In order to protect health and the environment, the Administrator, on his or her 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 the 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 section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration or registration review of your product when the EPA requires all registrants of similar products to submit such data.

Signature of Approving Official:

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

Date:

7/31/2024

2. Make the following labeling change before you release this product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 96019-4."
3. Submit one (1) copy of the final printed labeling for the record before you release this product for shipment.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6. A stamped copy of the labeling is enclosed for your records. Please also note that the record for this product currently contains the following acceptable Confidential Statement of Formula (CSF):

- Basic CSF dated 09/02/2022

If you have any questions, please contact Sydney Vergara by phone at (202) 506-1606 or via email at Hetzel.sydney@epa.gov.

Sincerely,

A handwritten signature in blue ink, reading "Andrew C. Bryceland".

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

Enclosure

{Note to reviewer: [Text] in brackets denotes optional text.}

{Note to reviewer: {Text} in braces denotes where in the final label text will appear.}

Master Label includes:

Sublabel A: Agricultural Crops, Greenhouse, Turf & Ornamental (p. 1-19)

Sublabel B: Residential/Homeowner & Residential Greenhouse (p. 20-28)

Optional Label Claims and Logos (p. 29-31)

Container Base Label (p. 32)

MargoShine

[Alternate Brand Names: Neem Oil EC, MargoShine Neem Oil EC, MargoShine 70 EC]

EPA Reg. No. 96019-

EPA Est. No.:

Manufactured for:

Kriya Biosys Private Limited
No. 114, Orchid Block
Keerthi Flora, Brookefield, Bangalore
Karnataka, India 560 037

ACCEPTED

07/31/2024

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under

EPA Reg. No. 96019-4

[Sublabel A: Agricultural Crops, Greenhouse, Turf & Ornamental]
{BOOKLET FRONT PANEL LANGUAGE}



[Peel here to open →]

MargoShine

[Alternate Brand Names: Neem Oil EC, MargoShine Neem Oil EC, MargoShine 70 EC]

INSECTICIDE, MITICIDE, NEMATICIDE & FUNGICIDE

[PEST REPELLENT, ANTIFEEDANT, INSECT GROWTH REGULATOR & FUNGAL GROWTH SUPPRESSOR]

FOR USE ON VEGETABLES, FRUITS, NUTS, COMMERCIAL ROW CROPS, CEREALS, HEMP, COMMERCIAL GREENHOUSES, SHADE HOUSES, INTERIORSCAPES, INDOOR & OUTDOOR ORNAMENTALS, NURSERIES, TURF, ORNAMENTALS, TREES AND SHRUBS.

FOR THE CONTROL OF INSECTS, MITES, NEMATODES AND FUNGAL DISEASES. PRODUCT CAN BE USED UP TO DAY OF HARVEST IN ALL FOOD AND NON-FOOD CROPS.

[ **FOR ORGANIC GARDENING**]

Active Ingredient:	By Wt.
Cold pressed neem oil.....	70.0%
Other Ingredients:.....	30.0%
Total:.....	100.0%

Contains 5.46 lb of cold pressed neem oil per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION

Read entire label. Use strictly in accordance with precautionary statements and directions for use, and with applicable state and federal regulations.

[See (inside label booklet / side panel / back panel) for (additional / complete) (First Aid,) Precautionary Statements, Directions for Use, and Storage and Disposal.]

EPA Reg. No. 96019-

EPA Est. No.:

Manufactured for:
Kriya Biosys Private Limited
No. 114, Orchid Block
Keerthi Flora, Brookefield, Bangalore
Karnataka, India 560 037

[Barcode]

Net Contents: ____ [fl. oz.]/[qt]/[gal] (____ [mL]/[L])

{LANGUAGE INSIDE BOOKLET}

FIRST AID
IF SWALLOWED:
<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by a poison control center or doctor.• Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:
<ul style="list-style-type: none">• 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.
HOTLINE NUMBER
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency medical treatment information, contact the Poison Control Center at 1-800-222-1222.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before use.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves.
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions exist 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/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

For terrestrial uses only. This pesticide is toxic 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 highwater mark. Do not apply when weather conditions favor drift from treated areas. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash waters or rinsate.

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 irrigation system unless the chemigation instructions on this label are

followed. 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 State or Tribal 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 and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS).

Do not enter or allow 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:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves (such as barrier laminate, butyl, nitrile, neoprene, polyvinyl chloride, or Viton)
- Socks and shoes

NON-AGRICULTURAL USE REQUIREMENTS

These requirements apply to uses of this product that are NOT within the WPS 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. For other uses including golf courses and other non-agricultural uses, do not enter treated areas without protective clothing until sprays have dried.

PRODUCT INFORMATION

MargoShine is an emulsifiable concentrate containing cold pressed neem oil. MargoShine controls insects such as worms, thrips, aphids, white flies, leaf miners, beetles, mites and nematodes, etc. MargoShine repels and/or disrupts feeding and growth of the target insect pests.

MargoShine is effective for the prevention and control of the following fungal diseases: powdery mildew, downy mildew, rust, leaf spot, scab, blight, anthracnose, dollar spot, and molds.

COMPATIBILITY

MargoShine has been found to be compatible with most commonly used insecticides, fungicides and fertilizers. However, to avoid plant damage, a jar compatibility test must be conducted before mixing or applying this product. To conduct a jar compatibility test, take a pt. of water and adjust pH between 5.5 to 7.0 using a buffering agent (buffering agents include products such as Buffer PS, Buffer Xtra Strength, etc.). To test tank compatibility of MargoShine and pesticide formulations including water soluble, emulsifiable, microemulsion, suspension concentrate and surfactants, first mix MargoShine at 1 tsp./pt. in 5.5 to 7.0 pH adjusted water, mix well, and then add intended pesticides at labelled rates and mix well again.

TANK MIXING

For tank mix compatibility tests of MargoShine and pesticides formulations including dry wettable powders and dry water dispersible granules, first mix labelled rates of dry products in a pint of pH 5.5 to 7.0 adjusted water, mix well, and then add MargoShine at 1 tsp., and mix well again. In case tank mixing involves 3 categories of products including MargoShine, liquid formulations (such as water soluble, emulsifiable,

microemulsion, suspension concentrates & surfactants) and dry products (wetable powder and water dispersible granules), first mix dry products in a pint of pH 5.5 to 7.0 adjusted water followed by MargoShine and liquid products. After thorough mixing of MargoShine and intended tank mixing pesticides, let the solution stand for 15-30 minutes. If separation, sedimentation, flocculation and grainy appearance in the spray mixture is formed, it is not compatible and such mixtures may not be used. The tank mixture is considered compatible in cases where there is no separation, sedimentation, flocculation and grainy appearance in the mixture and such tank mixtures may be used. Once tank mixture compatibility is established, test spray mixtures on a small sample of plants for possible adverse effects for phytotoxic effects.

As a general recommendation, do not use MargoShine with products such as Bordeaux mixture, triphenyltin hydroxide, lime sulfur, Rayplex Iron or other high alkaline insecticides, fungicides and fertilizers. If MargoShine is mixed with very mild alkaline products (pH 7.5-8.0) that show tank mixing compatibility, use such tank mixtures within 8 hours.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

APPLICATION INSTRUCTIONS

READ ALL DIRECTIONS, RESTRICTIONS, AND PRECAUTIONS BEFORE USE

MargoShine is exempt from tolerances and may be applied as directed to any food or non-food crop up to and including the day of harvest at a rate not exceeding 14 pints (20 grams active ingredient) per acre per application.

RESTRICTIONS

- Do not apply MargoShine on just germinated, newly transplanted, wilted and drought stressed plants and plants with very tender leaves.
- Do not apply MargoShine during hot temperature conditions (>90°F).
- Do not apply to sensitive plant species such as poinsettias, some rose species, impatiens, hibiscus flowers, carnations, and comice pears.

PRECAUTIONS

- Apply this product during early morning and late evening time to prevent potential leaf burns and plant injuries.
- Exercise extreme care when combining MargoShine with oil and surfactant-based products.
- Waxy bloom on certain ornamental plants may be reduced after an application.
- Applications may remove 'blue' coloring from evergreens such as Colorado blue spruce and Koster spruce.

MIXING AND STORAGE: Shake well before mixing. Use spray water with ambient conditions (20-35°C or 68-95°F) for mixing and avoid using cold water. In case full spray water is not available at suggested ambient conditions, premix product with a few gallons of water at 20-35°C or 68-95°F and then mix with cold water. Use spray mixtures immediately or within 24 hours of preparation. The recommended pH range is between 5.5 and 7.0 for MargoShine alone or when used with other products. When mixing with other approved agrichemicals, always ensure proper agitation in the spray tank to ensure uniform application. If required, use a buffering agent.

Refer to the Use Rate tables below to determine the amount of MargoShine for a required area to be treated. First, add half the volume of water you are proposing to dilute the product in based on the Use Rate table to the mix tank, fill half water in mix tank, add determined amount of MargoShine and then add remaining water for proper mixing.

MargoShine disperses freely when added to water. For proper dilution and uniform distribution on plant canopy, ensure proper agitation in mixing tanks or vessels. When mixing with other agrochemicals, add solid constituents (such as wettable powders, water dispersible granules or micronutrients) last in the form of a slurry.

APPLICATION METHOD AND EQUIPMENT: MargoShine can be applied as a foliar spray or soil drench or soil-less media (e.g., greenhouses and mushroom houses) to control listed insects, mites, nematodes and fungal diseases. Soil drenches can be used to control listed soil-borne pests, including soil-borne larvae of foliar insect pests. When applying as a drench, avoid excessive leaching. MargoShine can be applied through sub-surface soil treatment equipment (e.g., turf grass). To repel adult flies, apply through fogging equipment.

Apply MargoShine using any powered or manual pesticide application equipment, including high-volume, low-volume, ultra-low volume, electrostatic, fogging and aerial applications. Follow original manufacturer's recommendations when using these types of equipment.

For optimum results, make 2 to 3 applications at 7- to 10-day intervals. Ensure thorough foliar coverage for effective pest and disease control.

USE SITES:

Use MargoShine on the following crops:

GREENHOUSE FOOD CROPS: Brassica (Cole) Crops, Cucurbits, Eggplants, Herbs and Spices, Legumes, Peppers, Tomatoes, and other miscellaneous crops grown in greenhouses.

MUSHROOMS (Edible Fungi Group): Agaricus, Cremini, Enoki, Maitake, Oyster, Portobello, Shitake, White, and other specialty mushrooms.

ROOT AND TUBER VEGETABLES GROUP: Arracacha, Artichokes, Beets, Carrots, Canna, Cassava, Chicory, Chufa, Dasheen, Ginger, Horseradish, Leren, Jicama, Potatoes, Radishes, Rutabagas, Salsify, Skirret, Sweet Potatoes, Tanier, Turmeric, Turnips, Yam Bean, Yams.

LEAFY VEGETABLES GROUP (INCLUDING BRASSICA LEAFY VEGETABLES): Amaranth, Arugula, Broccoli, Broccoli Raab, Brussels Sprouts, Cabbage, Cauliflower, Cardoon, Cavalo Broccoli, Celery, Celtuce, Chervil, Chinese Cabbage (Bok Choy, Napa), Collards, Corn Salad, Cress, Endives, Fennel, Frisee, Kale, Kohlrabi, Lettuce, Mizuna, Mustard Greens, Parsley, Purslane, Rape Greens, Radicchio, Rhubarb, Spinach, Swiss Chard, Turnip Greens.

LEGUME VEGETABLES GROUP: Beans (Field, Kidney, etc.), Chickpeas, Cowpeas, Guar, Jackbeans, Lablab Beans, Lentils, Peas, Pigeon Peas, Soybeans, Sword Beans.

FRUITING VEGETABLES GROUP: Eggplants, Ground Cherries, Okra, Pepinos, Peppers, Pimentos, Tomatillos, Tomatoes.

CUCURBIT VEGETABLES GROUP: Bitter Melons, Chayotes, Chinese Wax Gourds, Citron Melons, Cucumbers, Gherkins, Gourds, Muskmelons (Cantaloupes, Casabas, Crenshaw, etc.), Pumpkins, Squash, Watermelons.

CITRUS FRUITS GROUP: Calamondins, Citrus Citrons, Citrus Hybrids, Grapefruits, Kumquats, Lemons, Limes, Mandarins, Oranges, Pummellos, Satsuma Mandarins.

POME FRUITS GROUP: Apples, Crabapples, Loquats, Mayhaws, Oriental Pears, Pears, Quinces.

STONE FRUITS GROUP: Apricots, Cherries, Nectarines, Peaches, Plums, Prunes.

BERRIES GROUP: Blackberries and Caneberries, Blueberries, Currants, Elderberries, Gooseberries, Huckleberries, Loganberries, Raspberries, Strawberries, Youngberries.

FORAGE CROPS: Alfalfa, Clover, Trefoil, Vetch.

CEREAL GRAINS GROUP: Barley, Buckwheat, Corn, Millet, Oats, Popcorn, Rice, Rye, Sorghum, Teosintes, Triticale Hybrids, Wheat, Wild Rice.

HERBS AND SPICES GROUP: Allspice, Angelica, Anise, Annatto, Balm, Basil, Black And White Peppers, Borage, Burnet, Chamomile, Caper Buds, Cardamom, Caraway, Cassia, Catnip, Celery Seeds, Chervil, Chives, Cinnamon, Clary, Cloves, Coriander (Cilantro), Costmary, Culantro, Cumin, Curry Leaf, Dills, Fennels, Fenugreek, Grains Of Paradise, Horehound, Hyssop, Juniper Berry, Lavender, Lemongrass, Lovage, Mace, Marigolds, Marjoram, Mustard Seeds, Nasturtium, Nutmeg, Parsley, Pennyroyal, Poppy Seeds, Rosemary, Rue, Saffron, Sage, Savory, Sweet Bay (Bay Leaf), Tansy, Tarragon, Thyme, Vanilla, Wintergreen, Woodruff, Wormwood and other miscellaneous herbs.

BULB VEGETABLES GROUP: Garlic, Leeks, Onions, Shallots.

NUTS GROUP: Almonds, Beechnuts, Brazil Nuts, Butternuts, Cashews, Chestnuts, Chinquapin, Filberts, Hickory Nuts, Lychee Nuts, Macadamias, Pecans, Pistachios, Walnuts.

OILSEED CROPS GROUP: Canola, Castor, Cotton Seed, Crambe, Guar, Jojoba, Peanut, Rape, Safflower, Sesame, Soybean, Sunflower.

TROPICAL FRUITS: Atemoya, Banana, Breadfruit, Canistel, Cherimoya, Durian, Guava, Lychee, Longan, Malanga, Mango, Papaya, Passionfruit, Pawpaw, Persimmon, Pineapple, Pomegranate, Rambutan, Spanish Lime, Starfruit, Sugar Apple.

MISCELLANEOUS FOOD AND NON-FOOD CROPS: Asparagus, Avocado, Birdseed, Cacao, Coffee, Cotton, Edible Flowers, Feijoa, Figs, Ginseng, Grapes, Guayule, Hemp, Hops, Kiwi, Olives, Palms, Sugarcane, Tamarillo, Tea, Tobacco, Water Chestnut, Watercress, and all other food crops.

ORNAMENTAL PLANTS: African Violets, Ageratum, Aster, Aucuba, Begonia, Cacti, Calendula, Calla, Carnation, Ceanothus, Chrysanthemum, Cineraria, Coleus, Cotoneaster, Cyclamen, Daffodil, Dahlia, Delphinium, Ficus, Foliage Plants, Fuchsia, Gardenia, Geranium, Gloxinia, Hyacinth, Hydrangea, Iris, Ivy, Lily, Maidenhair Fern, Marigold, Narcissus, Orchid, Pansy, Pelargonium, Peony, Phlox, Pittosporum, Poinsettia, Pyracantha, Rubber Plant, Snapdragon, Stock, Tulip, Wandering Jew, Yew, Yucca, Zinnia.

CHRISTMAS TREES AND CHRISTMAS TREE PLANTATIONS

ORNAMENTAL TREES AND SHRUBS: Andromeda, Arbor Vitae, Ash, Austrian Pine, Azalea, Beech, Birch, Birds Nest Spruce, Blue Spruce, Bougainvillea, Boxwood, Butternut, Camellia, Cedar, Chamaecyparis, Cherry, Crabapple, Cyprus, Dogwood, Douglas Fir, Elm, Euonymus, Firethorn, Forsythia, Hackberry, Hawthorn, Hemlock, Hickory, Holly, Honeylocust, Horse Chestnut, Ilex, Juniper, Larch Laurel, Lilac, Linden, London Plane, Magnolia, Manvillea, Maple, Mimosa, Mountain Ash, Myrtle, Oak, Pachysandra, Peach Pine, Photinia, Planetree, Pines, Poplar, Privet, Quince, Rhododendron, Roses, Spruce, Sycamore, White Cedar, And White Pine.

TURF AND TURFGRASS: Bentgrass, Bermuda Grass, Bluegrass, Centipede Grass, Fescue, Ryegrass, St. Augustine, Wheatgrass, Zoysia Grass.

INTERIORSCAPES, SOIL-LESS MEDIUM CROPS - (Non-Residential) Vegetables, Herbs, Ornamentals.

NON-CROP USES: Manures, Manure Piles, Composts, Compost Piles, Poultry Litter, Poultry Litter Piles, Cull Piles, Biochar, Mulches, Potting Soil, Granular Fertilizers, Top Soil, Crop Waste Dumps, Farm Yards, Fuel Storage Areas, Fence Rows, Rights Of Way, Fallow Land and Barrier Strips.

1. MARGOSHINE USES FOR VEGETABLES, FRUITS, NUTS, COMMERCIAL ROW CROPS, CEREALS OUTDOOR ORNAMENTALS, TURF, ORNAMENTALS, TREES AND SHRUBS – FOLIAR APPLICATIONS

MargoShine is intended for use on outdoor plants and food crops, mushrooms grown in polyhouses, plants grown indoors or in greenhouses, interiorscapes and nurseries. It can be used to control any of the following insects: mites, nematodes and listed fungal diseases.

Use tables below to determine appropriate use rate for your site / pest combination. Rates are provided in pints of MargoShine. When combining with other insecticides, use half recommended rate of MargoShine listed below. Use a spray water volume of 25 to 100 gallons depending on crop and crop stages. Do not exceed 14 pts./acre.

USE RATES FOR OUTDOOR PLANTS INCLUDING: FOOD CROPS AND NON-CROP USES (TREES, TURFGRASS, NURSERY & ALL OUTDOOR ORNAMENTAL PLANTS)		
<u>PEST</u>	<u>RATE</u> Pints / Acre*	<u>REMARKS</u>
WHITEFLIES: Greenhouse whiteflies, Silverleaf whiteflies, Woolly whiteflies	Low use – 1 pt. Mid use – 2 pts. High use – 4 pts.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.
LEAFMINERS: Azalea, leafminers, Birch Leafminers, Citrus leafminers, Serpentine leafminers, Vegetable leafminers	Low use – 1 pt. Mid use – 2 pts. High use – 4 pts.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.
SCALES: Brown soft scales, California red scales, Coffee scales, Olive scales, San Jose scales	Low use – 1 pt. Mid use – 2 pts. High use – 4 pts.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.
MEALY BUGS: Citrus mealybugs	Low use – 1 pt. Mid use – 2 pts. High use – 4 pts.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.
THRIPS: Citrus thrips, Onion thrips, Thrips palmi	Low use – 1 pt. Mid use – 2 pts. High use – 4 pts.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.
APHIDS: Cotton aphids, Green peach aphids, Pea aphids, Potato aphids	Low use – 1 pt. Mid use – 2 pts. High use – 4 pts.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.

USE RATES FOR OUTDOOR PLANTS INCLUDING: FOOD CROPS AND NON-CROP USES (TREES, TURFGRASS, NURSERY & ALL OUTDOOR ORNAMENTAL PLANTS)		
<u>PEST</u>	<u>RATE</u> Pints / Acre*	<u>REMARKS</u>
PSYLLIDS: Pear psylla	Low use – 1 pt. Mid use – 2 pts. High use – 4 pts.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.
LEAFHOPPERS: Grape Leafhoppers[,] [Potato Leafhopper][,] [Variegated Leafhopper]	Low use – 1 pt. Mid use – 2 pts. High use – 4 pts.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.
BUGS: Boxelder bugs, Chinch bugs, Lygus bugs, Spittle bugs, Stink bugs.	Low use – 1 pt. Mid use – 2 pts. High use – 4 pts.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.
FLIES: Blueberry maggots, Cherry maggots, Crane flies, Fruit flies, Midges, Onion maggots, Walnut husk flies[,] [Fungus Gnat][,] [Hessian Fly][,] [Marsh Crane Fly][,] [Melon Fly][,] [Midges][,] [Shore Fly]	Low use – 1 pt. Mid use – 2 pts. High use – 4 pts.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.
SAWFLIES: European pine sawflies, Yellow headed pine sawflies	Low use – 1 pt. Mid use – 2 pts. High use – 4 pts.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.

USE RATES FOR OUTDOOR PLANTS INCLUDING: FOOD CROPS AND NON-CROP USES (TREES, TURFGRASS, NURSERY & ALL OUTDOOR ORNAMENTAL PLANTS)		
<u>PEST</u>	<u>RATE</u> Pints / Acre*	<u>REMARKS</u>
CATERPILLARS and MOTHS: Armyworms, Beet Armyworm, Fall Armyworm, Lawn Armyworm, Southern Armyworm, Yellowstriped Armyworm, Artichoke plume moths, Bagworms, Black Cutworm, Bollworms, Budworms, Cabbage butterflies, Cabbage Loopers, Cankerworms, Caseworms, Citrus Cutworm, Corn earworms, Cutworms, Diamond-backed moths, European Pine Shoot Moth, Fall Cankerworm, Fruitworms, Grapeleaf skeletonizers, Gypsy moths, Hickory shuckworms, Hornworms, Imported cabbage worms, Leaf perforators, Leafrollers, Melonworms, Navel Orange worms, Oblique banded leafrollers, Omnivorous leafrollers. Oriental fruit moths, Pickle worms, Pine tip moths, Pinworms, red- banded leaf rollers, Sod webworms, Soybean loopers, Spring Cankerworm, Tent caterpillars, Tobacco budworms, Tobacco Hornworm, Tomato Fruitworm Tomato Pinworm, Tussock moths.	Low use – 1 pt. Mid use – 2 pts. High use – 4 pts.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.
BEETLES and GRUBS: Bark Beetles, Blueberry flea beetles, Boll weevils, Colorado potato beetles, Flea beetles, Japanese beetles, Leaf beetles, Mexican bean beetles, Pepper weevils, Phylloxera, Rose Chafers, Twig girdlers[,] [Elm Leaf Beetle][,] [Cucumber Beetle][,] [June Beetle]	Low use – 1 pt. Mid use – 2 pts. High use – 4 pts.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.
WEEVILS: Black vine weevils, Strawberry vine weevils	Low use – 1 pt. Mid use – 2 pts. High use – 4 pts.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.
BORERS: Peach twig borers, Peachtree borers, Dogwood borers, Cranberry borers.	Low use – 1 pt. Mid use – 2 pts. High use – 4 pts.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.

USE RATES FOR OUTDOOR PLANTS INCLUDING: FOOD CROPS AND NON-CROP USES (TREES, TURFGRASS, NURSERY & ALL OUTDOOR ORNAMENTAL PLANTS)		
<u>PEST</u>	<u>RATE</u> Pints / Acre*	<u>REMARKS</u>
MOLE CRICKETS	Low use – 1 pt. Mid use – 2 pts. High use – 4 pts.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.
NEMATODES: Burrowing nematodes, Dagger nematodes, Golden nematodes, Root knot nematodes	Low use – 1 pt. Mid use – 2 pts. High use – 4 pts.	Apply in sufficient amount of water to penetrate in the soil to a depth of 12 inches. Repeat applications every 3 or 4 weeks or as needed. Thorough coverage is needed to provide good pest control.
MITES: Banks mite, Clover mite, Citrus Rust mite, Citrus Red mite, European Red Mite, Hemlock Rust mite, Honey Locust mite, Pacific mite, Spruce mite, Two-spotted Spider mite	Low use – 1 pt. Mid use – 2 pts. High use – 4 pts.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.
DISEASES: Powdery mildew, Downy mildew, Rust, Black spot, Leaf spot, Botrytis, Anthracnose, Blight, Dollar spot, Mold, etc.	Low use – 1 pt. Mid use – 2 pts. High use – 4 pts.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.

*When pest and disease infestation is heavy or when plant canopy is dense, use mid to high recommended rates on the table. When combining with other insecticides and fungicides, use 0.5-2 pts./acre with label rates of other products.

2. MARGOSHINE SPECIAL INSTRUCTIONS FOR TURF, GOLF COURSES, PARKS, PUBLIC GREENS & ORNAMENTALS

For nematode control, mix 1-2 pints of MargoShine with 10-50 gallons water and spray 1000 square ft. Use additional irrigation methods to apply product into the turf below ground. Apply 7-14 days interval or as required. For nematode control, repeat applications are required when population threshold limits are reached.

For sucking pests and worm control, mix 1-2 tbsp./gallon or 1-4 pints with 100 gallons of water/acre and spray. Use additional irrigation methods to help apply product into the turf below ground. Begin applications at early stages of pest infestation and repeat at 7-14 day intervals or as necessary.

3. MARGOSHINE USES FOR COMMERCIAL GREENHOUSES, SOIL-LESS MEDIUM, SHADECLOTH AND NURSERIES – FOLIAR APPLICATIONS

Use the table below to determine appropriate use rate for each pest. Foliar sprays for individual plants should thoroughly wet both sides of the leaves without causing runoff.

USE RATES FOR PLANTS GROWN INDOORS OR IN GREENHOUSES, SOIL-LESS MEDIUM CROPS, UNDER SHADECLOTHES & NURSERIES		
<u>PEST</u>	<u>RATE</u> Pints / 100 Gallons*	<u>REMARKS</u>
WHITEFLIES: Greenhouse whiteflies, Silverleaf whiteflies	2-4 pts. for 50,000 sq. ft.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.
LEAFMINERS: Serpentine leafminers	2-4 pts. for 50,000 sq. ft.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.
SOFT SCALES	2-4 pts. for 50,000 sq. ft.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.
MEALY BUGS	2-4 pts. for 40,000 sq. ft.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.
THRIPS Western flower thrips	2-4 pts. for 40,000 sq. ft.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.
APHIDS Green peach aphids, Pea aphids, Cotton aphids, Rose aphids	2-4 pts. for 40,000 sq. ft.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.
LACE BUGS Azalea lace bugs	2-4 pts. for 40,000 sq. ft.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.
FLIES Crane flies, Fungus gnats, Shore flies	2-4 pts. for 40,000 sq. ft.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.
CATERPILLARS Army worms, Bag worms, Cut worms, Leaf hoppers, Leaf rollers, Loopers, Spruce budworms, Webworms	2-4 pts. for 40,000 sq. ft.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.
BORERS Peachtree borers	2-4 pts. for 40,000 sq. ft.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.

USE RATES FOR PLANTS GROWN INDOORS OR IN GREENHOUSES, SOIL-LESS MEDIUM CROPS, UNDER SHADECLOTHES & NURSERIES		
<u>PEST</u>	<u>RATE</u> Pints / 100 Gallons*	<u>REMARKS</u>
BEETLES Bark beetles, Flea beetles, Japanese beetles	2-4 pts. for 40,000 sq. ft.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.
WEEVILS Black vine weevils, strawberry vine weevils	2-4 pts. for 40,000 sq. ft.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.
NEMATODES Burrowing nematodes, Dagger nematodes, Golden nematodes, Root knot nematodes	2-4 pts. for 40,000 sq. ft.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.
MITES Red spider mites, Brown mite, Clover mites, Conifer spider mite, European red mites, Spruce spider mites and Two spotted spider mites	2-4 pts. for 40,000 sq. ft.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.
Diseases Powdery mildew, downy mildew, rust, black spot, leaf spot, botrytis, anthracnose, alternaria etc.	2-4 pts. for 40,000 sq. ft.	Apply early when pests appear. Thorough coverage is needed to provide good pest control. Repeat applications at 7-14 day intervals.

*Use 2 pints under low to medium pest pressure and 4 pints when high infestation is observed. When combining with other insecticides and fungicides, use 0.5-2 pints/acre with label rates of other products. Do not exceed 14 pints/acre.

4. MARGOSHINE USES FOR COMMERCIAL GREENHOUSES, SOIL-LESS MEDIUM, SHADECLOTH AND NURSERIES – FOLIAR APPLICATIONS LOW VOLUME APPLICATIONS

MARGOSHINE SPRAY PREPARATION FOR LOW VOLUME APPLICATIONS FOR ANY PLANTS GROWN INDOORS, GREENHOUSE, UNDER SHADECLOTHES, SOIL-LESS MEDIUM CROPS AND NURSERIES						
PEST	RATE/ 1 GAL	RATE/ 5 GAL	RATE/ 10 GAL	RATE/ 15 GAL	RATE/ 20 GAL	<u>REMARKS</u>
WHITEFLIES	2 tsp (10 mL)	1.7 fl oz. (50 mL)	3.4 fl oz. (100 mL.)	5 fl oz. (150 mL)	6.8 fl oz. (200 mL)	Apply early when pests appear. Repeat applications at 5-7 day intervals.
LEAFMINERS	2 tsp (10 mL)	1.7 fl oz. (50 mL)	3.4 fl oz. (100 mL)	5 fl oz. (150 mL)	6.8 fl oz. (200 mL)	Apply early when pests appear. Repeat applications at 5-7 day intervals.
SOFT SCALES	2 tsp (10 mL)	1.7 fl oz. (50 mL.)	3.4 fl oz. (100 mL)	5 fl oz. (150 mL)	6.8 fl oz. (200 mL)	Apply early when pests appear. Repeat applications at 5-7 day intervals.

MARGOSHINE SPRAY PREPARATION FOR LOW VOLUME APPLICATIONS FOR ANY PLANTS GROWN INDOORS, GREENHOUSE, UNDER SHADECLOTHES, SOIL-LESS MEDIUM CROPS AND NURSERIES						
PEST	RATE/ 1 GAL	RATE/ 5 GAL	RATE/ 10 GAL	RATE/ 15 GAL	RATE/ 20 GAL	<u>REMARKS</u>
MEALY BUGS	2 tsp (10 mL)	1.7 fl oz. (50 mL)	3.4 fl oz. (100 mL)	5 fl oz. (150 mL)	6.8 fl oz. (200 mL)	Apply early when pests appear. Repeat applications at 5-7 day intervals.
THRIPS	2 tsp (10 mL)	1.7 fl oz. (50 mL)	3.4 fl oz. (100 mL)	5 fl oz. (150 mL)	6.8 fl oz. (200 mL)	Apply early when pests appear. Repeat applications at 5-7 day intervals.
APHIDS	2 tsp (10 mL)	1.7 fl oz. (50 mL)	3.4 fl oz. (100 mL)	5 fl oz. (150 mL)	6.8 fl oz. (200 mL)	Apply early when pests appear. Repeat applications at 5-7 day intervals.
LACE BUGS	2 tsp (10 mL)	1.7 fl oz. (50 mL)	3.4 fl oz. (100 mL)	5 fl oz. (150 mL)	6.8 fl oz. (200 mL)	Apply early when pests appear. Repeat applications at 5-7 day intervals.
FLIES	2 tsp (10 mL)	1.7 fl oz. (50 mL)	3.4 fl oz. (100 mL)	5 fl oz. (150 mL)	6.8 fl oz. (200 mL)	Apply early when pests appear. Repeat applications at 5-7 day intervals.
CATERPILLARS	2 tsp (10 mL)	1.7 fl oz. (50 mL)	3.4 fl oz. (100 mL)	5 fl oz. (150 mL)	6.8 fl oz. (200 mL)	Apply early when pests appear. Repeat applications at 5-7 day intervals.
BORERS	2 tsp (10 mL)	1.7 fl oz. (50 mL)	3.4 fl oz. (100 mL)	5 fl oz. (150 mL)	6.8 fl oz. (200 mL)	Apply early when pests appear. Repeat applications at 5-7 day intervals.
BEETLES	2 tsp (10 mL)	1.7 fl oz. (50 mL)	3.4 fl oz. (100 mL)	5 fl oz. (150 mL)	6.8 fl oz. (200 mL)	Apply early when pests appear. Repeat applications at 5-7 day intervals.
WEEVILS	2 tsp (10 mL)	1.7 fl oz. (50 mL)	3.4 fl oz. (100 mL)	5 fl oz. (150 mL)	6.8 fl oz. (200 mL)	Apply early when pests appear. Repeat applications at 5-7 day intervals.
MITES	2 tsp (10 mL)	1.7 fl oz. (50 mL)	3.4 fl oz. (100 mL)	5 fl oz. (150 mL)	6.8 fl oz. (200 mL)	Apply early when pests appear. Repeat applications at 5-7 day intervals.
FUNGAL DISEASES	2 tsp (10 mL)	1.7 fl oz. (50 mL)	3.4 fl oz. (100 mL)	5 fl oz. (150 mL)	6.8 fl oz. (200 mL)	Apply early when pests appear. Repeat applications at 5-7 day intervals.

When infestation is heavy or when plant canopy is dense, use up to 2-3X rates shown in table, but do not exceed 14 pints/acre. When combining with other insecticides and fungicides, use half rates shown in table.

5. MARGOSHINE USES FOR GREENHOUSES, SOIL-LESS MEDIUM, SHADECLOTH AND NURSERIES – RECIRCULATORY APPLICATIONS

Use MargoShine in re-circulatory applications for effective control of foliar and soil borne insect larvae, including soil borne larvae of foliar pests such as fungus gnats, nematodes or thrips and diseases.

Measure required quantity of product as per table provided below and add to a bucket of water and mix it well prior to application to re-circulatory system applications.

MARGOSHINE APPLICATION TABLE FOR ALL INDOOR PLANTS SUCH AS GREENHOUSE, UNDER SHADECLOTHES, INTERIORSCAPES, NURSERIES, SOIL-LESS MEDIUM CROPS AND RECIRCULATORY APPLICATIONS					
Gallon of water	AMOUNT OF MARGOSHINE*				APPLICATION INTERVAL
	0.05%	0.1%	0.15%	0.2%	
1 GALLON	2/5 tsp (2 mL)	4/5 tsp (4 mL)	1.2 tsp (6 mL)	1.6 tsp (8 mL)	7-14 days
5 GALLONS	2 tsp (10 mL)	4 tsp (20 mL)	1 fl oz. (30 mL)	1.4 fl oz. (40 mL)	7-14 days
10 GALLONS	4 tsp (20 mL)	1.4 fl oz. (40 mL)	2 fl oz. (60 mL)	2.7 fl oz. (80 mL)	7-14 days
20 GALLONS	1.4 fl oz. (40 mL)	2.7 fl oz. (80 mL)	4 fl oz. (120 mL)	5.4 fl oz. (160 mL)	7-14 days
30 GALLONS	2 fl oz. (60 mL)	4 fl oz. (120 mL)	6 fl oz. (180 mL)	8 fl oz. (240 mL)	7-14 days
40 GALLONS	2.7 fl oz. (80 mL)	5.4 fl oz. (160 mL)	8 fl oz. (240 mL)	10.8 fl oz. (320 mL)	7-14 days

*Use MargoShine in re-circulatory system for control of listed foliar pests, soil borne insect larvae, fungus gnats, nematodes and fungal diseases. Only dilute MargoShine at 0.05 to 0.1%. Do not use higher concentration without checking for plant phytotoxicity and mixing compatibility. Agitate re-circulation mixture until product is completely dispersed.

6. MARGOSHINE USES FOR GREENHOUSES, SOIL-LESS MEDIUM, SHADECLOTH AND NURSERIES – DRENCH APPLICATIONS

Use MargoShine as a soil drench for effective control of foliar and soil borne insect larvae, including soil borne larvae of foliar pests such as fungus gnats, nematodes or thrips and diseases.

Measure required quantity of product as per table below, add to a bucket of water and mix it well prior to drench applications.

MARGOSHINE APPLICATION TABLE FOR DRENCH APPLICATIONS FOR INDOOR PLANTS AND OUTDOOR PLANTS IN GREENHOUSES, SOIL-LESS MEDIUM CROPS					
Gallon of water	AMOUNT OF MARGOSHINE*				APPLICATION INTERVAL
	0.05%	0.1%	0.15%	0.2%	
1 GALLON	2/5 tsp (2 mL)	4/5 tsp (4 mL)	1.2 tsp (6 mL)	1.6 tsp (8 mL)	7-14 days
5 GALLONS	2 tsp (10 mL)	4 tsp (20 mL)	1 fl oz. (30 mL)	1.4 fl oz. (40 mL)	7-14 days

MARGOSHINE APPLICATION TABLE FOR DRENCH APPLICATIONS FOR INDOOR PLANTS AND OUTDOOR PLANTS IN GREENHOUSES, SOIL-LESS MEDIUM CROPS					
Gallon of water	AMOUNT OF MARGOSHINE*				APPLICATION INTERVAL
	0.05%	0.1%	0.15%	0.2%	
10 GALLONS	4 tsp (20 mL)	1.4 fl oz. (40 mL)	2 fl oz. (60 mL)	2.7 fl oz. (80 mL)	7-14 days
20 GALLONS	1.4 fl oz. (40 mL)	2.7 fl oz. (80 mL)	4 fl oz. (120 mL)	5.4 fl oz. (160 mL)	7-14 days
30 GALLONS	2 fl oz. (60 mL)	4 fl oz. (120 mL)	6 fl oz. (180 mL)	8 fl oz. (240 mL)	7-14 days
40 GALLONS	2.7 fl oz. (80 mL)	5.4 fl oz. (160 mL)	8 fl oz. (240 mL)	10.8 fl oz. (320 mL)	7-14 days

*Drench soil in the pot with one (1) pint of finished product dilution per gallon of soil. Use lower concentration (0.05%) for mild infestations and higher concentration (0.2%) for severe infestation.

7. MARGOSHINE USES IN AERIAL APPLICATIONS

For aerial applications in crops, turf, ornamentals and trees, apply 2-8 pints/acre diluted in 10-20 gallons of water. Avoid application when conditions do not support uniform coverage or when excessive drift may occur. Do not apply directly to animals, animal houses, aquatic animals or aquatic systems.

8. MARGOSHINE USES IN TREE INJECTION

The product can be injected in grown up trees in residences, landscapes, nurseries, plantations and forestry locations with suitable tree injection equipment. The product may be used for the control of spruce budworm, pine false webworm, pine sawfly larvae and cedar leaf miners, etc. Inject 0.125-0.5 fl oz. (4-15 mL) per inch trunk diameter at 4-5 feet from ground level. Consult an expert or extension specialist prior to injection.

9. MARGOSHINE USES IN CHEMIGATION

General Information

This product may be applied only through drip (trickle) or sprinkler (center pivot, lateral move, end tow, side roll, traveler, big gun, solid set, or hand move), flood (basin) irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, contact State Extension Service Specialists, equipment manufacturers or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

A dilution and supply tank should be used with good agitation. When used with supply tank, MargoShine should be diluted at the rate of 2-6 pints/50-200 gallons of water. Irrigate fieldfirst with water and then deliver the product mixture subsequently. Do not exceed more than 14 pints of the product/acre. When used with other products, please refer tank mixing precautions.

Avoid run off in the field when using the product.

The product tends to solidify under very cold temperatures, and if this happens, keep product under normal room condition before use or warm it to room temperature before application.

General Requirements -

- 1) Apply this product only through a drip system or sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, hand move, flood (basin), furrow, border or drip (trickle) irrigation systems. Do not apply this product through any other type of irrigation system.
- 2) Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
- 3) If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
- 4) Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- 5) A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- 6) Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.
- 7) Posting must conform to the following requirements. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area towards the sensitive area. The signs shall be printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.
- 8) All words shall consist of letters at least 2.5 inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER.

Specific Requirements for Chemigation Systems Connected to Public Water Systems -

- 1) Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- 2) Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- 3) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 4) The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated

- valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 5) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
 - 6) Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
 - 7) Do not apply when wind speed favors drift beyond the area intended for treatment.

Specific Requirements for Sprinkler Chemigation -

- 1) The system must contain a functional check valve, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- 2) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 3) The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5) The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6) Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being filled with a system interlock.
- 7) Do not apply when wind speed favors drift beyond the area intended for treatment.

Specific Requirements for Flood (Basin), Furrow and Border Chemigation -

- 1) Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops.
- 2) The systems utilizing a pressurized water and pesticide injection system must meet the following requirements:
 - a. The system must contain a functional check valve, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
 - b. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
 - c. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
 - d. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
 - e. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
 - f. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being filled with a system interlock.

Specific Requirements for Drip (Trickle) Chemigation -

- 1) The system must contain a functional check valve, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- 2) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 3) The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5) The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6) Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being filled with a system interlock.

Application Instructions -

- 1) Remove scale, pesticide residues, and other foreign matter from the chemical supply tank and entire injector system. Flush with clean water. Failure to provide a clean tank, void of scale or residues may cause product to lose effectiveness or strength.
- 2) Determine the treatment rates as indicated in the directions for use and make proper dilutions.
- 3) Prepare a solution in the chemical tank by filling the tank with the required water and then adding product as required. The product will immediately go into suspension without any required agitation.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in original containers in a cool, well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Open dumping is prohibited. If wastes cannot be disposed of according to label directions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Handling: [Nonrefillable Containers ≤ 5 gal:] 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. Fill the container ¼ 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. [Nonrefillable Containers > 5 gal:] 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. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand container on its end and tip it back and forth several times. Turn the container over onto its other end

and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

[Refillable Containers:] Refillable container. Refill this container with pesticide only. Do not use 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 a mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

WARRANTY

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

By using this product, the user accepts the following: LIMITED WARRANTY: To the extent consistent with applicable law, KRIYA BIOSYS PRIVATE LIMITED warrants that (a) this product conforms to the chemical description on its label, (b) this product is reasonably fit for the purposes stated on its label, subject to the inherent risks referred to herein, when used in accordance with its directions; and (c) that the directions, cautions and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and plants, and upon reports of field experience. Testing has not been performed on all varieties of food crops, and plants, in all states, or under all application, weather and crop conditions. There are no express warranties other than those set forth herein. KRIYA BIOSYS PRIVATE LIMITED neither makes nor intends, nor does it authorize any agent or representative to make, any other warranty, express or implied. KRIYA BIOSYS PRIVATE LIMITED expressly excludes and disclaims all implied warranties of merchantability, fitness for particular purpose, or any other warranty of quality of performance. This warranty does not extend to, and the user shall be solely responsible for, any loss or damage that results from the use of this product in any manner that is inconsistent with this label's directions, or cautions. To the extent consistent with applicable law, user's exclusive remedy and KRIYA BIOSYS PRIVATE LIMITED 's or seller's exclusive liability for any claim loss, damage, or injury resulting from the use or handling of this product, whether or not based in contract, negligence, strict liability in tort, or otherwise, shall be limited, at KRIYA BIOSYS PRIVATE LIMITED 's option, to replacement, or repayment of the purchase price for, the quantity of product with respect to which damages are claimed. To the extent consistent with applicable law, in no event shall KRIYA BIOSYS PRIVATE LIMITED or Seller be liable for special, indirect, or consequential damages resulting from the use or handling of this product.

[EPA approval date]

[Sublabel B: Residential/Homeowner & Residential Greenhouse]
{FRONT PANEL LANGUAGE}



MargoShine



[Alternate Brand Names: Neem Oil EC, MargoShine Neem Oil EC, MargoShine 70 EC]

INSECTICIDE, MITICIDE, NEMATICIDE & FUNGICIDE

[PEST REPELLENT, ANTIFEEDANT, INSECT GROWTH REGULATOR & FUNGAL GROWTH SUPPRESSOR]

FOR HOME GARDEN AND RESIDENTIAL GREENHOUSE USE

FOR CONTROL OF INSECTS, MITES, NEMATODES, AND FUNGAL DISEASES.

PRODUCT CAN BE USED UP TO THE DAY OF HARVEST IN ALL FOOD AND NON-FOOD CROPS.

[ **FOR ORGANIC GARDENING**]

Active Ingredient:	By Wt.
Cold pressed neem oil.....	70.0%
Other Ingredients:	30.0%
Total:	100.0%

Contains 5.46 lb of cold pressed neem oil per gallon.

KEEP OUT OF REACH OF CHILDREN
CAUTION

Read entire label. Use strictly in accordance with precautionary statements and directions for use, and with applicable state and federal regulations.

[See (side panel / back panel / inside panel) for (additional / complete) (First Aid,) Precautionary Statements, Directions for Use, and Storage and Disposal.]

EPA Reg. No. 96019-

EPA Est. No.:

Manufactured for:
Kriya Biosys Private Limited
No. 114, Orchid Block
Keerthi Flora, Brookefield, Bangalore
Karnataka, India 560 037

[Barcode]

Net Contents: ____ [fl. oz.]/[qt]/[gal] (____ [mL]/[L])

{SIDE / BACK / INSIDE PANEL LANGUAGE}

FIRST AID
IF SWALLOWED:
<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by a poison control center or doctor.• Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:
<ul style="list-style-type: none">• 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.
HOTLINE NUMBER
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency medical treatment information, contact the Poison Control Center at 1-800-222-1222.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before use.

ENVIRONMENTAL HAZARDS

For terrestrial uses only. This pesticide is toxic 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 highwater mark. Do not apply when weather conditions favor drift from treated areas. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash waters or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

PRODUCT INFORMATION

MargoShine is an emulsifiable concentrate containing 70% cold pressed neem oil. MargoShine controls insects such as worms, thrips, aphids, white flies, leaf miners, beetles, mites and nematodes. MargoShine repels and/or disrupts feeding and growth of the target insect pests.

MargoShine is effective for the prevention and control of the following fungal diseases: powdery mildew, downy mildew, rust, leaf spot, scab, blight, anthracnose, dollar spot, and molds.

APPLICATION INSTRUCTIONS

READ ALL DIRECTIONS, RESTRICTIONS, AND PRECAUTIONS BEFORE USE

MargoShine is exempt from tolerances and may be applied as directed to any food or non-food crop up to and including the day of harvest at a rate not exceeding 14 pints (20 grams active ingredient) per acre per application.

RESTRICTIONS

- Do not apply MargoShine on just germinated, newly transplanted, wilted and drought stressed plants and plants with very tender leaves.
- Do not apply MargoShine during hot temperature conditions (>90°F).
- Do not apply to sensitive plant species such as poinsettias, some rose species, impatiens, hibiscus

flowers, carnations, and comice pears.

PRECAUTIONS

- Apply this product during early morning and late evening time to prevent potential leaf burns and plant injuries.
- Exercise extreme care when combining MargoShine with oil and surfactant-based products.
- Waxy bloom on certain ornamental plants may be reduced after an application.
- Applications may remove 'blue' coloring from evergreens such as Colorado blue spruce and Koster spruce.

MIXING AND STORAGE: Shake well before mixing. Use spray water with ambient conditions (20-35°C or 68-95°F) for mixing and avoid using cold water. In case full spray water is not available at suggested ambient conditions, premix product with a few gallons of water at 20-35°C or 68-95°F and then mix with cold water. Use spray mixtures immediately or within 24 hours of preparation. The recommended pH range is between 5.5 and 7.0 for MargoShine alone or when used with other products. When mixing with other approved agrichemicals, always ensure proper agitation in the spray tank to ensure uniform application. If required, use a buffering agent.

1. MARGOSHINE USES IN HOME GARDEN PLANTS – FOLIAR APPLICATIONS

For foliar applications, apply MargoShine with hand operated or low volume power sprayer equipment. Follow equipment manufacturer's instructions/recommendations when making applications.

To Mix – Measure required product quantity (see table below) into a clean bucket, add required amount of water, and then stir well before loading into a sprayer.

MARGOSHINE APPLICATION RATES FOR HOME GARDEN CROPS SUCH AS VEGETABLES, HERBS, SPICES, FRUITS, BERRIES AND ORNAMENTAL HOME GARDEN CROPS					
CROP	PESTS & DISEASES SUCH AS	MARGOSHINE DILUTION RATE*			APPLICATION INTERVAL
		1 qt. water	1 gal. water	5 gal. water	
Leafy Vegetables including but not limited to: Broccoli, Cabbage, Cauliflower, Collards, Endive, Kale, Lettuce, Spinach	Leafrollers, Loopers, Armyworms, Whiteflies, Aphids, Thrips, Mites, Powdery mildew, Downy mildew, rust	1/2 tsp (2.5 mL)	2 tsp (10 mL)	1.7 fl oz. (50 mL)	7-14 days
Root Vegetables including but not limited to: Beet, Carrot, Horseradish, Parsnip, Potato, Radish, Sweet potato, Turnip, Yam	Leafrollers, Loopers, Armyworms, Whiteflies, Aphids, Thrips, Mites, Powdery mildew, Downy mildew, rust	1/2 tsp (2.5 mL)	2 tsp (10 mL)	1.7 fl oz. (50 mL)	7-14 days

MARGOSHINE APPLICATION RATES FOR HOME GARDEN CROPS SUCH AS VEGETABLES, HERBS, SPICES, FRUITS, BERRIES AND ORNAMENTAL HOME GARDEN CROPS					
CROP	PESTS & DISEASES SUCH AS	MARGOSHINE DILUTION RATE*			APPLICATION INTERVAL
		1 qt. water	1 gal. water	5 gal. water	
Fruiting Vegetables including but not limited to: Eggplant, Pepper, Tomatillo, Tomato	Leafrollers, Loopers, Armyworms, Whiteflies, Aphids, Thrips, Mites, Powdery mildew, Downy mildew, rust	1/2 tsp (2.5 mL)	2 tsp (10 mL)	1.7 fl oz. (50 mL)	7-14 days
Cucurbit Vegetables including but not limited to: Cucumber, Gourd, Muskmelon, Pumpkin, Squash, Watermelon, Cantaloupe, Casaba, Gherkins, Melons, Zucchini	Leafrollers, Loopers, Armyworms, Whiteflies, Aphids, Thrips, Mites, Powdery mildew, Downy mildew, rust	1/2 tsp (2.5 mL)	2 tsp (10 mL)	1.7 fl oz. (50 mL)	7-14 days
Legume Vegetables including but not limited to: Bean, Chickpea, Lentil, Pea	Leafrollers, Loopers, Armyworms, Whiteflies, Aphids, Thrips, Mites, Powdery mildew, Downy mildew, rust	1/2 tsp (2.5 mL)	2 tsp (10 mL)	1.7 fl oz. (50 mL)	7-14 days
Bulb Vegetables including but not limited to: Garlic, Onion, Shallot	Leafrollers, Loopers, Armyworms, Whiteflies, Aphids, Thrips, Mites, Powdery mildew, Downy mildew, rust	1/2 tsp (2.5 mL)	2 tsp (10 mL)	1.7 fl oz. (50 mL)	7-14 days
Berries including but not limited to: Blackberry, Blueberry, Raspberry, Strawberry, Gooseberry	Leafrollers, Loopers, Armyworms, Whiteflies, Aphids, Thrips, Mites, Powdery mildew, Downy mildew, Anthracnose, Botrytis	1/2 tsp (2.5 mL)	2 tsp (10 mL)	1.7 fl oz. (50 mL)	7-14 days

MARGOSHINE APPLICATION RATES FOR HOME GARDEN CROPS SUCH AS VEGETABLES, HERBS, SPICES, FRUITS, BERRIES AND ORNAMENTAL HOME GARDEN CROPS					
CROP	PESTS & DISEASES SUCH AS	MARGOSHINE DILUTION RATE*			APPLICATION INTERVAL
		1 qt. water	1 gal. water	5 gal. water	
Herbs and Spices including but not limited to: Chive, Dill, Fennel, Mustard, Sage, Basil, Coriander, Peppermint	Leafrollers, Loopers, Armyworms, Whiteflies, Aphids, Thrips, Mites, Powdery mildew, Downy mildew, rust	1/2 tsp (2.5 mL)	2 tsp (10 mL)	1.7 fl oz. (50 mL)	7-14 days
Nut trees including but not limited to: Almond, Walnut, Pecan, Pistachio	Leafrollers, Loopers, Armyworms, Whiteflies, Aphids, Thrips, Mites	1/2 tsp (2.5 mL)	2 tsp (20 mL)	1.7 fl oz. (50 mL)	7-14 days
Pome fruits including but not limited to: Apple, Pear (check plant safety for Comice Pear variety before application)	Leafrollers, Loopers, Armyworms, Whiteflies, Aphids, Thrips, Mites, Powdery mildew, Downy mildew, Anthracnose, Botrytis	1/2 tsp (2.5 mL)	2 tsp (10 mL)	1.7 fl oz. (50 mL)	7-14 days
Stone fruits including but not limited to: Apricot, Cherry, Nectarine, Peach, Plum	Leafrollers, Loopers, Armyworms, Whiteflies, Aphids, Thrips, Mites, Powdery mildew, Downy mildew, Anthracnose, Botrytis	1/2 tsp (2.5 mL)	2 tsp (10 mL)	1.7 fl oz. (50 mL)	7-14 days
Citrus fruits including but not limited to: Grapefruit, Lemon, Orange	Leafrollers, Loopers, Armyworms, Whiteflies, Aphids, Thrips, Mites, Powdery mildew, Downy mildew, Anthracnose, Botrytis	1/2 tsp (2.5 mL)	2 tsp (10 mL)	1.7 fl oz. (50 mL)	7-14 days

MARGOSHINE APPLICATION RATES FOR HOME GARDEN CROPS SUCH AS VEGETABLES, HERBS, SPICES, FRUITS, BERRIES AND ORNAMENTAL HOME GARDEN CROPS					
CROP	PESTS & DISEASES SUCH AS	MARGOSHINE DILUTION RATE*			APPLICATION INTERVAL
		1 qt. water	1 gal. water	5 gal. water	
Ornamental Plants including but not limited to: Chrysanthemum, Coleus, Roses, Poinsettia	Leafrollers, Loopers, Armyworms, Whiteflies, Aphids, Thrips, Mites, Powdery mildew, Downy mildew, Blackspot, rust	1/2 tsp (2.5 mL)	2 tsp (10 mL)	1.7 fl oz. (50 mL)	7-14 days
Ornamental Trees & Shrubs	Leafrollers, Loopers, Armyworms, Whiteflies, Aphids, Thrips, Mites, Powdery mildew, Downy mildew, Blackspot, rust	1/2 tsp (2.5 mL)	2 tsp (10 mL)	1.7 fl oz. (50 mL)	7-14 days
Hemp	Armyworms, Whiteflies, Aphids, Thrips, Mites, Powdery mildew, Downy mildew	1/2 tsp (2.5 mL)	2 tsp (10 mL)	1.7 fl oz. (50 mL)	7-14 days

*Use 2-3X rates in case of severe infestation and in dense canopy plants.

2. MARGOSHINE USE FOR HOME GARDEN PLANTS, INDOOR AND OUTDOOR PLANTS, RESIDENTIAL GREENHOUSES, INTERIORSCAPES, AND SOIL-LESS MEDIUM PLANTS GROWING SYSTEMS – RE-CIRCULATORY APPLICATIONS

Use MargoShine in re-circulatory applications for effective control of foliar and soil borne insect larvae, including soil borne larvae of foliar pests such as fungus gnats, nematodes or thrips and diseases.

Measure required quantity of product as per table provided below and add to a bucket of water and mix it well prior to application to re-circulatory system applications.

MARGOSHINE APPLICATION TABLE FOR ALL INDOOR PLANTS SUCH AS GREENHOUSE, UNDER SHADECLOTHES, INTERIORSCAPES, NURSERIES, SOIL-LESS MEDIUM CROPS AND RECIRCULATORY APPLICATIONS					
Gallon of water	AMOUNT OF MARGOSHINE*				APPLICATION INTERVAL
	0.05%	0.1%	0.15%	0.2%	
1 GALLON	2/5 tsp (2 mL)	4/5 tsp (4 mL)	1.2 tsp (6 mL)	1.6 tsp (8 mL)	7-14 days
5 GALLONS	2 tsp (10 mL)	4 tsp (20 mL)	1 fl oz. (30 mL)	1.4 fl oz. (40 mL)	7-14 days

MARGOSHINE APPLICATION TABLE FOR ALL INDOOR PLANTS SUCH AS GREENHOUSE, UNDER SHADECLOTHES, INTERIORSCAPES, NURSERIES, SOIL-LESS MEDIUM CROPS AND RECIRCULATORY APPLICATIONS					
Gallon of water	AMOUNT OF MARGOSHINE*				APPLICATION INTERVAL
	0.05%	0.1%	0.15%	0.2%	
10 GALLONS	4 tsp (20 mL)	1.4 fl oz. (40 mL)	2 fl oz. (60 mL)	2.7 fl oz. (80 mL)	7-14 days
20 GALLONS	1.4 fl oz. (40 mL)	2.7 fl oz. (80 mL)	4 fl oz. (120 mL)	5.4 fl oz. (160 mL)	7-14 days
30 GALLONS	2 fl oz. (60 mL)	4 fl oz. (120 mL)	6 fl oz. (180 mL)	8 fl oz. (240 mL)	7-14 days
40 GALLONS	2.7 fl oz. (80 mL)	5.4 fl oz. (160 mL)	8 fl oz. (240 mL)	10.8 fl oz. (320 mL)	7-14 days

*Use MargoShine in re-circulatory system for control of listed foliar pests, soil borne insect larvae, fungus gnats, nematodes and fungal diseases. Only dilute MargoShine at 0.05 to 0.1%. Do not use higher concentration without checking for plant phytotoxicity and mixing compatibility. Agitate re-circulation mixture until product is completely dispersed. Do not exceed 14 pints/acre.

3. MARGOSHINE USE FOR HOME GARDEN PLANTS, INDOOR AND OUTDOOR PLANTS, RESIDENTIAL GREENHOUSES, INTERIORSCAPES, AND SOIL-LESS MEDIUM PLANTS GROWING SYSTEMS – DRENCH APPLICATIONS

Use MargoShine as a soil drench for effective control of foliar and soil borne insect larvae, including soil borne larvae of foliar pests such as fungus gnats, nematodes or thrips and diseases.

Measure required quantity of product as per table below, add to a bucket of water and mix it well prior to drench applications.

MARGOSHINE APPLICATION TABLE FOR DRENCH APPLICATIONS FOR INDOOR PLANTS AND OUTDOOR PLANTS IN GREENHOUSES, SOIL-LESS MEDIUM CROPS					
Gallon of water	AMOUNT OF MARGOSHINE*				APPLICATION INTERVAL
	0.05%	0.1%	0.15%	0.2%	
1 GALLON	2/5 tsp (2 mL)	4/5 tsp (4 mL)	1.2 tsp (6 mL)	1.6 tsp (8 mL)	7-14 days
5 GALLONS	2 tsp (10 mL)	4 tsp (20 mL)	1 fl oz. (30 mL)	1.4 fl oz. (40 mL)	7-14 days
10 GALLONS	4 tsp (20 mL)	1.4 fl oz. (40 mL)	2 fl oz. (60 mL)	2.7 fl oz. (80 mL)	7-14 days
20 GALLONS	1.4 fl oz. (40 mL)	2.7 fl oz. (80 mL)	4 fl oz. (120 mL)	5.4 fl oz. (160 mL)	7-14 days
30 GALLONS	2 fl oz. (60 mL)	4 fl oz. (120 mL)	6 fl oz. (180 mL)	8 fl oz. (240 mL)	7-14 days
40 GALLONS	2.7 fl oz. (80 mL)	5.4 fl oz. (160 mL)	8 fl oz. (240 mL)	10.8 fl oz. (320 mL)	7-14 days

*Drench soil in the pot with one (1) pint of finished product dilution per gallon of soil. Use lower concentration (0.05%) for mild infestations and higher concentration (0.2%) for severe infestation.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in original containers in a cool, well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Open dumping is prohibited. If wastes cannot be disposed of according to label directions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Handling: [Nonrefillable Containers ≤ 5 gal:] 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. Fill the container ¼ 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.

[Nonrefillable Containers > 5 gal:] 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. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

[Refillable Containers:] Refillable container. Refill this container with pesticide only. Do not use 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 a mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

WARRANTY

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

By using this product, the user accepts the following: LIMITED WARRANTY: To the extent consistent with applicable law, KRIYA BIOSYS PRIVATE LIMITED warrants that (a) this product conforms to the chemical description on its label, (b) this product is reasonably fit for the purposes stated on its label, subject to the inherent risks referred to herein, when used in accordance with its directions; and (c) that the directions, cautions and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and plants, and upon reports of field experience. Testing has not been performed on all varieties of food crops, and plants, in all states, or under all application, weather and crop conditions. There are no express warranties other than those set forth herein. KRIYA BIOSYS PRIVATE LIMITED neither makes nor intends, nor does it authorize any agent or representative to make, any other warranty, express or implied. KRIYA BIOSYS PRIVATE LIMITED expressly excludes and disclaims all implied warranties of merchantability, fitness for particular purpose, or any other warranty of quality of performance. This warranty does not extend to, and the user shall be solely responsible for, any loss or damage that results from the use of this product in any manner that is inconsistent with this label's directions, or cautions. To the extent consistent with applicable law, user's

exclusive remedy and KRIYA BIOSYS PRIVATE LIMITED 's or seller's exclusive liability for any claim loss, damage, or injury resulting from the use or handling of this product, whether or not based in contract, negligence, strict liability in tort, or otherwise, shall be limited, at KRIYA BIOSYS PRIVATE LIMITED 's option, to replacement, or repayment of the purchase price for, the quantity of product with respect to which damages are claimed. To the extent consistent with applicable law, in no event shall KRIYA BIOSYS PRIVATE LIMITED or Seller be liable for special, indirect, or consequential damages resulting from the use or handling of this product.

[EPA approval date]

[Optional Label Claims (may appear throughout the label):]

- Insecticide
- Nematicide
- Larvaecide
- Antifeedant
- Ovicide
- Miticide
- Insect Growth Regulator
- Multiple Modes of Action
- Controls insects as listed on the label
- Botanical based active ingredient
- Plant-derived Insecticide
- Derived from the Neem Tree "*Azadirachta Indica*"
- Reduces crop damage
- Spray right up to the time of harvest
- Compliments IPM programs
- Alternative to conventional insecticides
- Only a 4-hour Re-Entry Interval
- For Indoor and Outdoor Use
- For use on turf grass, outdoor shrubs, trees and ornamentals
- For ornamental greenhouse, shade house, interiorscape and nursery use
- For mushroom house use
- For use on food crops
- To control the following insects: aphids, armyworms, beetles, budworms, cutworms, fungus gnats, leafhoppers, leafminers, leafrollers, lepidopterous larvae, loopers, mushroom flies, sawflies, thrips, webworms, and whiteflies; and plant parasitic nematodes such as dagger, golden, and root knot nematodes
- For residential and commercial lawn, flowers and vegetable gardens, farms, forests, sod farms, nurseries, greenhouse food and ornamental plants, mushroom houses, nursery plants, interiorscapes, landscapes, turfgrasses and golf courses
- Use as a spray, drench, fog, or chemigation
- Plant-Based Active Ingredient
- Concentrate
- Zero-day pre-harvest interval
- Effective against soil-borne and foliar pests as listed on the label
- For use in packinghouses
- Easy to Use
- Mix and Spray
- Home and Garden Insecticide
- For use in residential greenhouses, gardens, flowers, shrubs, plants, trees, houseplants and vegetables
- For indoor and outdoor use
- Control on many insects as listed on this label
- Controls insects without harming plants
- Just Add Water
- Dissolves completely
- Use on vegetable crops, flowers, and grasses

- Works on tomatoes, peppers, lettuce, squash, pumpkins, and cucumbers
- Works on strawberries, apples, blueberries, citrus fruit, pears
- Works on African violets, begonias, geraniums, peony, phlox, tulip, azaleas, lilacs, rhododendrons, roses, hydrangeas, boxwoods, and more.
- Works on birch trees, oak, spruce/pine, crabapples, dogwood, cherry, magnolia, cypress, and more
- [For] Use on vegetable crops, flowers, & outdoor shrubs
- For controlling the following insects: aphids, armyworms, beetles, borers, caterpillars, chafers, cutworms, grasshoppers, grubs, lace bugs, leafminers, loopers, mealy bugs, mites, mole crickets, nematodes, scales, thrips, weevils, whiteflies
- [For] Use on flowers, outdoor shrubs, trees, vegetable crops, and turf grasses.
- Beetles, stinkbugs, budworms, and more.
- Systemic Insecticide
- For use in hydroponic systems
- For use with tree injection equipment
- For home and garden use.
- For indoors and outdoor vegetables, ornamentals, flowers, trees, shrubs, container grown plants, and interiorscapes.
- Controls aphids, armyworms, beetles, budworms, cutworms, fungus gnats, houseflies, leafhoppers, leafminers, loopers, leafrollers, and other caterpillars, mealybugs, mushroom flies (or sciarid flies), sawflies, scales, thrips, webworms, weevils, whiteflies; and plant parasitic nematodes such as burrowing, dagger, golden and root knot nematodes.
- For use on food crops, ornamentals, shrubs, trees, turfgrass (including golf courses and athletic fields), and non-food uses.
- For greenhouses, shadehouses, interiorscapes, mushroom houses, and nursery uses.
- For commercial and industrial areas.
- For use on [flowering] [and] [green] plants.
- The Power of Neem
- Derived from Neem
- Insect Repellent
- Broad Spectrum [Insecticide][control] [action]
- [For] Use as part of an Integrated Pest Management [program] [strategy]
- Alternative within conventional programs
- For sustainable programs
- Peel Here for Directions & Precautions
- Quadruple action insect control
- Single Product, Multiple Action
- For Organic Gardening
- 4in1 – Insecticide, Miticide, Nematicide, Insect Growth Regulator
- 3in1 – Insecticide, Miticide, Nematicide
- Repellent

[OPTIONAL LOGOS (may appear throughout the label)]



**{LANGUAGE ON LABEL PERMANENTLY
AFFIXED TO CONTAINER WHEN BOOKLET
IS USED}**



MargoShine



[Alternate Brand Names: **Neem Oil EC, MargoShine
Neem Oil EC, MargoShine 70 EC**]

[INSECTICIDE, MITICIDE, NEMATICIDE & FUNGICIDE]

[ FOR ORGANIC GARDENING]

Active Ingredient: **By Wt.**
Cold pressed neem oil 70.0%
Other Ingredients: 30.0%
Total: 100.0%
Contains 5.46 lb of cold pressed neem oil per gallon.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

FIRST AID
IF SWALLOWED:
<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison center or doctor. • Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:
<ul style="list-style-type: none"> • 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.
HOTLINE NUMBER
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency medical treatment information, contact the Poison Control Center at 1-800-222-1222.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in original containers in a cool, well-ventilated area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Open dumping is prohibited. If wastes cannot be disposed of according to label directions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Handling: [Nonrefillable Containers ≤ 5 gal:] 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. Fill the container ¼ 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.

[Nonrefillable Containers > 5 gal:] 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. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

[Refillable Containers:] Refillable container. Refill this container with pesticide only. Do not use 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 a mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

See inside label booklet for additional Precautionary Statements and Directions for Use.

EPA Reg. No. 96019-

EPA Est. No.:

Manufactured for:

Kriya Biosys Private Limited
No. 114, Orchid Block
Keerthi Flora, Brookefield, Bangalore
Karnataka, India 560 037

[Barcode] Net Contents: ____ [fl. oz.]/[qt]/[gal] (____ [mL]/[L])