

Agriculture Crops, Greenhouses, Turf & Ornamental Use

# ECOWORKS EC<sup>®</sup>

**BOTANICAL INSECTICIDE, MITICIDE, NEMATICIDE & FUNGICIDE**

ACTIVE INGREDIENT: Cold Pressed Neem oil	70.00%
OTHER INGREDIENTS:	30.00%
	100.00%

**KEEP OUT OF  
REACH OF CHILDREN  
CAUTION**

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.

(See Attached / Enclosed booklet for additional Precautionary Statements, First Aid and Directions for Use)

EPA Reg. No. 89152-4  
EPA Est. No. 93211-IND-1

**Net Contents:**  
**2, 4, 8, 16, 32 OZ, 1, 2.5, 5, 265 Gallons**



**ECOSTADT**  
TECHNOLOGIES LLC  
Bringing Bioresources for a Better World



1024 Iron Point Road, Suite 100-1318, Folsom, CA 95630, Phone: 916-357-6607

# ECOWORKS EC®

## BOTANICAL 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, SHRUBS.

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OTHER INGREDIENTS : ..... 30.00%  
100.00%

### KEEP OUT OF REACH OF CHILDREN CAUTION

FOR ORGANIC PRODUCTION



#### FIRST AID

##### If on skin or clothing:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

##### If inhaled:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for further treatment advice.

##### If in eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call a poison control center or doctor for treatment advice.

##### If swallowed:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to by a poison control center or doctor.
- Do not give anything to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. Call your poison control center at 1-800-222-1222. For information on product, usage, etc., call 1-888-858-7378, Seven days a week, 6:30 am to 4:30 pm Pacific Time. During other times, call the poison control center 1-800-222-1222.

#### FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:

**Transportation:** Chemtrec ..... 1-800-424-9300

**Medical:** Hazard information Services (H.I. S1) 800-228-5635, Extension 169.

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if inhaled or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Avoid breathing spray mist. Remove contaminated clothing and wash clothing before use.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

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

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

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

#### ENVIRONMENTAL HAZARDS

For terrestrial uses only. This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high-water 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.

#### 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 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 (such as barrier laminate, butyl, nitrile, neoprene, polyvinyl chloride, or viton) gloves
- 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

ECOWORKS EC<sup>®</sup> is an emulsifiable concentrate containing cold pressed Neem oil 70%. ECOWORKS EC<sup>®</sup> controls insects such as worms, thrips, aphids, white flies, leaf miners, beetles, mites and nematodes etc. ECOWORKS EC<sup>®</sup> repels and/or disrupts feeding and growth of the target insect pests.

ECOWORKS EC<sup>®</sup> 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

ECOWORKS EC<sup>®</sup> 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 pint 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 ECOWORKS EC<sup>®</sup> and pesticide formulations including water soluble, emulsifiable, microemulsion, suspension concentrate and surfactants, first mix ECOWORKS EC<sup>®</sup> @1 TSP/Pint 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 ECOWORKS EC<sup>®</sup> and pesticides formulations including dry wettable powders and dry water dispersible granules, first mix labelled rates of dry products in a Pint of 5.5 to 7.0 pH adjusted water, mix well, and then add ECOWORKS EC<sup>®</sup> @ 1 TSP, and mix well again. In case tank mixing involves 3 categories of products including ECOWORKS EC<sup>®</sup>, 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 pH 5.5-6.0 adjusted Pint water followed by ECOWORKS EC<sup>®</sup> and liquid products. After thorough mixing of ECOWORKS EC<sup>®</sup> 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 case 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 ECOWORKS EC<sup>®</sup> with products such as Bordeaux mixture, Triphenyltin hydroxide, lime sulfur, Rayplex Iron (or) other high alkaline insecticides, fungicides and fertilizers. If ECOWORKS EC<sup>®</sup> is mixed with very mild alkaline products (pH 7.5-8.0) that show tank mixing compatibility, use such tank mixtures within 8 hours.

Always follow directions for use, precautions and limitations for use on all product labels used in combination. Always follow manufacturer's directions for Use and Precautionary Statements.

## APPLICATION INSTRUCTIONS

### READ ALL DIRECTIONS AND PRECAUTIONS BEFORE USE

ECOWORKS EC<sup>®</sup> 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.

### GENERAL PRECAUTIONS

Do not apply ECOWORKS EC<sup>®</sup> on just germinated, newly transplanted, wilted and drought stressed plants and plants with very tender leaves.

Do not apply ECOWORKS EC<sup>®</sup> during hot temperature conditions (>90°F). Apply this product during early morning and late evening time to prevent potential leaf burns and plant injuries.

Exercise extreme care when combining ECOWORKS EC<sup>®</sup> with oil and surfactant based products.

Do not apply to sensitive plant species such as poinsettias, some rose species, impatiens, hibiscus flowers, carnations, and comice pears.

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 ECOWORKS EC<sup>®</sup> 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 ECOWORKS EC<sup>®</sup> for a required area to be treated. First, add half the volume of water your 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 ECOWORKS EC<sup>®</sup> and then add remaining water for proper mixing.

ECOWORKS EC<sup>®</sup> 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:** ECOWORKS EC<sup>®</sup> 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. ECOWORKS EC<sup>®</sup> can be applied through sub-surface soil treatment equipment (e.g. turf grass). To repel adult flies, apply through fogging equipment.

Apply ECOWORKS EC<sup>®</sup> 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.

### ECOWORKS EC<sup>®</sup> USE SITES:

Use ECOWORKS EC<sup>®</sup> on the following crops:

#### FIELD AND GREENHOUSE FOOD CROPS-

Brassica (cole) crops, cucurbits, eggplants, herbs and spices, legumes, peppers, tomatoes, and other miscellaneous crops grown in greenhouses.

**Edible Fungi Group** - Agaricus, cremini, enoki, maitake, oyster, portobello, shiitake, and white mushrooms.

**Root and Tuber Vegetables Group** - Artichokes, beets, carrots, ginger, horseradish, potatoes, radishes, rutabagas, sweet potatoes, turmeric, turnips, yams.

**Leafy and Brassica Crop Vegetables Crop Grouping (including Brassica Leafy Vegetables)** - Amaranth, broccoli, Brussels sprouts, cabbage, cauliflower, celery, chervil, Chinese cabbage, collards, cress, endives, fennel, kale, kohlrabi, lettuce, mizuna, mustard greens, parsley, purslane, rape greens, rhubarb, spinach, Swiss chard.

**Legume Vegetables Group** - Beans (field, kidney etc.), chickpeas, cowpeas, guar, jack beans, lablab beans, lentils, peas, pigeon peas, soybeans, sword beans.

**Fruiting Vegetables Group** - Eggplants, ground cherries, pepinos, peppers, pimentos, tomatillos, tomatoes.

**Cucurbit Vegetables Group** - Bitter melons, Chayotes, Chinese wax gourds, citron melons, cucumbers, gherkins, gourds, muskmelons (such as cantaloupes, casabas Crenshaw etc.), pumpkins, squash, watermelons.

**Citrus Fruits Group** - Calamondins, citrus citrons, citrus hybrids, grapefruits, kumquats, lemons, limes, mandarins, oranges, pummelos, Satsuma mandarins.

**Pome Fruits Group** - Apples, crab apples, 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** - Alfalfa, clover, trefoil or vetch.

**Cereal Grains Group** - Barley, buckwheat, corn, millet, oats, popcorn, rice, rye, sorghum, teosintes, triticale hybrids, wheat, wild rice.

**Cotton And Tobacco**

**Herbs and Spices Group - Including but not limited to** 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, cumin, curry leaf, dills, fennels, fenugreek, grains of paradise, horehound, hyssop, juniper berry, lavender, lemongrass, lavage, 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.

**Bulb Vegetables (Allium spp.) Crop 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 Group** - Canola, castor, crambe, guar, jojoba, peanuts, rape, safflower, sesame, soybean, sunflower.

**Tropical fruits** - Atemoyas, bananas, breadfruits, cherimoyas, durians, guavas, malangas, mangos, papaya, passion fruits, star fruits.

**Miscellaneous Food and Non-Food Crops - Including but not limited to** Asparagus, avocados, birdseed, cacao, coffee, edible flowers, feijoa, figs, ginseng, grapes, guayule, hops, kiwis, okras, olives, palms, papayas, pawpaws, persimmons, pineapples, rambutans, sugarcane, tamarillos, tea, water chestnuts, watercress.

**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.

**HEMP**

**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** – Bent grass, 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). ECOWORKS EC® USES FOR VEGETABLES, FRUITS, NUTS, COMMERCIAL ROW CROPS, CEREALS OUTDOOR ORNAMENTALS, TURF, ORNAMENTALS, TREES AND SHRUBS- FOLIAR APPLICATIONS.**

ECOWORKSEC® is intended for use for 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 ECOWORKS EC®. When combining with other insecticides, use half recommended rate of ECOWORKS EC® listed below. Use a spray water volume of 25 to 100 gallons depending on crop and crop stages. Do not exceed 14 pints/acre.

<b>ECOWORKS EC® USE RATES FOR OUTDOOR PLANTS INCLUDING: FOOD CROPS AND NON-CROP USE (TREES, TURFGRASS, NURSERY &amp; ALL OUTDOOR ORNAMENTAL PLANTS)</b>		
<b>PESTS</b>	<b>PINTS /ACRE*</b>	<b>REMARKS</b>
<b>WHITEFLIES</b> Greenhouse whiteflies, Silver leaf whiteflies, Woolly whiteflies	Low use -1 Pint Mid use - 2 Pints High use- 4 Pints	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>LEAF MINERS</b> Azalea, leaf miners, Birch leaf miners, Citrus leaf miners, Serpentine leaf miners, Vegetable leaf miners.	Low use 1 Pint Mid use 2 Pints High use 4 Pints	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>SCALES</b> Brown soft scales, California red scales, Coffee scales, Olive scales, San Jose scales	Low use 1 Pint Mid use 2 Pints High use 4 Pints	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>MEALY BUGS</b> Citrus mealybugs	Low use 1 Pint Mid use 2 Pints High use 4 Pints	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>THRIPS</b> Citrus thrips, Onion thrips, Thrips palmi,	Low use 1 Pint Mid use 2 Pints High use 4 Pints	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>APHIDS</b> Cotton aphids, Green peach aphids, Pea aphids, Potato aphids	Low use 1 Pint Mid use 2 Pints High use 4 Pints	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>PSYLLIDS</b> Pear psylla	Low use 1 Pint Mid use 2 Pints High use 4 Pints	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>LEAFHOPPERS</b> Grape leafhoppers	Low use 1 Pint Mid use 2 Pints High use 4 Pints	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>BUGS</b> Boxelder bugs, Chinch bugs, Lygus bugs, Spittle bugs, Stink bugs	Low use 1 Pint Mid use 2 Pints High use 4 Pints	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>FLIES</b> Blueberry maggots, Cherry maggots, Crane flies, Fruit flies, Midges, Onion maggots, Walnut husk flies	Low use 1 Pint Mid use 2 Pints High use 4 Pints	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.

PESTS	PINTS /ACRE*	REMARKS
<b>SAWFLIES</b> European pine sawflies, Yellow headed pine sawflies	Low use 1 Pint Mid use 2 Pints High use 4 Pints	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>CATERPILLARS</b> Armyworms, Artichoke plume moths, Bag worms, Boll worms, Bud worms, Cabbage butterflies, Cabbage Loopers, Canker worms, Case worms, Corn ear worms, Cut worms, Diamond-backed moths, Fruit worms, Grape leaf skeletonizers, Gypsy moths, Hickory shuck worms, Hornworms, Imported cabbage worms Leaf perforators, Leaf rollers, Melon worms, Navel Orange worms, Oblique banded leaf rollers, Omnivorous leaf rollers. Oriental fruit moths, Pickle worms, Pine tip moths, Pinworms, red-banded leaf rollers, Sod webworms, Soybean loopers, Tent caterpillars, Tobacco budworms, Tussock moths.	Low use 1 Pint Mid use 2 Pints High use 4 Pints	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>BEETLES</b> 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.	Low use 1 Pint Mid use 2 Pints High use 4 Pints	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>WEEVILS</b> Black vine weevils, Strawberry vine weevils	Low use 1 Pint Mid use 2 Pints High use 4 Pints	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>BORERS</b> Peach twig borers, Peachtree borers, Dogwood borers, Cranberry borers.	Low use 1 Pint Mid use 2 Pints High use 4 Pints	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>MOLE CRICKETS</b>	Low use 1 Pint Mid use 2 Pints High use 4 Pints	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>NEMATODES</b> Burrowing nematodes, Dagger nematodes, Golden nematodes, Root knot nematodes	Low use 1 Pint Mid use 2 Pints High use 4 Pints	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 recommended.
<b>MITES</b> Red spider mites, Brown mite, Clover mites, Conifer spider mite, European red mites, Spruce spider mites and Two spotted spider mites	Low use 1 Pint Mid use 2 Pints High use 4 Pints	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>DISEASES</b> powdery mildew, downy mildew, rust, black spot, leaf spot, botrytis, anthracnose, blight, dollar spot, mold etc.	Low use 1 Pint Mid use 2 Pints High use 4 Pints	Repeat applications 7-14 days intervals. Apply early when diseases appear. Thorough coverage is recommended.

\*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 & fungicides, use 0.5-2 pints/acre with label rates of other products.

## (2) ECOWORKS EC® SPECIAL RECOMMENDATIONS FOR TURF, GOLF COURSES, PARKS, PUBLIC GREENS & ORNAMENTALS.

For nematode control, mix 1-2 Pints of ECOWORKS EC® with 10-50 gallons water and spray 1000 square ft. Use additional irrigation methods to reach product in to 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 Tbs./gallon (or) 1-4 Pints with 100 gallons of water/acre and spray. Use additional irrigation methods to help reach product into the turf below ground. Begin applications at early stages of pest infestation and repeat at 7-14 days interval (or) as necessary.

## (3) ECOWORKS EC® 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.

ECOWORKS EC® USE RATES FOR PLANTS GROWN INDOORS OR IN GREENHOUSES, SOIL-LESS MEDIUM CROPS, UNDER SHADECLOTHES & NURSERIES		
PESTS	PINTS/ 100 GALLONS*	REMARKS
<b>WHITEFLIES</b> Greenhouse whiteflies, Silver leaf whiteflies	2 -4 Pints for 50, 000 sq. ft	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>LEAF MINERS</b> Serpentine leaf miners	2 -4 Pints for 50,000 sq. ft.	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>SOFT SCALES</b>	2 -4 Pints for 50,000 sq. ft.	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>MEALY BUGS</b>	2 -4 Pints for 40,000 sq. ft.	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>THRIPS</b> Western flower thrips	2-4 Pints for 40,000 sq. ft.	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>APHIDS</b> Green peach aphids, Pea aphids, Cotton aphids, Rose aphids	2 -4 Pints for 40,000 sq. ft.	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>LACE BUGS</b> Azalea Lace Bugs	2 -4 Pints for 40,000 sq. ft.	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>FLIES</b> Crane flies, Fungus gnats, Shore flies	2 -4 Pints for 40,000 sq. ft.	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>CATERPILLARS</b> Army worms, Bag worms, Cut worms, Leaf hoppers, Leaf rollers, Loopers, Spruce budworms, Webworms	2 -4 Pints for 40,000 sq. ft.	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>BORERS</b> Peachtree borers	2 -4 Pints for 50,000 sq. ft.	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.

PESTS	PINTS/ 100 GALLONS*	REMARKS
<b>BETTERLES</b> Bark beetles, Flea beetles, Japanese beetles	2 -4 Pints for 50,000 sq. ft.	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>WEEVILS</b> Black vine weevils, strawberry vine weevils	2 -4 Pints for 40,000 sq. ft.	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>NEMATODES</b> Burrowing nematodes, Dagger nematodes, Golden nematodes, Root knot nematodes	2 -4 Pints for 40,000 sq. ft.	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>MITES</b> Red spider mites, Brown mite, Clover mites, Conifer spider mite, European red mites, Spruce spider mites and Two spotted spider mites	2 -4 Pints for 40,000 sq. ft.	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.
<b>DISEASES</b> Powdery mildew, downy mildew, rust, black spot, leaf spot, botrytis, anthracnose, alternaria etc.	2 -4 Pints for 40,000 sq. ft.	Repeat applications 7-14 days intervals. Apply early when pests appear. Thorough coverage is recommended.

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

**(4). ECOWORKS EC® USES FOR COMMERCIAL GREENHOUSES, SOIL-LESS MEDIUM, SHADECLOTH AND NURSERIES- FOLIAR LOW VOLUME APPLICATIONS.**

ECOWORKS EC® SPRAY PREPARATION FOR LOW VOLUME APPLICATIONS FOR ANY PLANTS GROWN INDOORS, GREENHOUSE, UNDER SHADECLOTHES, SOIL-LESS MEDIUM CROPS AND NURSERIES						
PESTS	RATE / 1 GAL	RATE/ 5 GAL	RATE/ 10 GAL	RATE/ 15 GAL	RATE/ 20 GAL	REMARKS
WHITEFLIES	10 ml (2 Tsp)	50 ml (1.7 Fl.Oz)	100 ml (3.4 Fl. Oz)	150 ml (5 Fl. Oz)	200 ml (6.8 Fl. Oz)	Spray when pests first appear. Repeat every 5 to 7 days.
LEAF MINERS	10 ml (2 Tsp)	50 ml (1.7 Fl. Oz)	100 ml (3.4 Fl.Oz)	150 ml (5 Fl. Oz)	200 ml (6.8 Fl. Oz)	Spray when pests first appear. Repeat every 5 to 7 days.
SOFT SCALES	10 ml (2 Tsp)	50 ml (1.7 Fl. Oz)	100 ml (3.4 Fl. Oz)	150 ml (5 Fl. Oz)	200 ml (6.8 Fl.Oz)	Spray when pests first appear. Repeat every 5 to 7 days.
MEALY BUGS	10 ml (2 Tsp)	50 ml (1.7 Fl. Oz)	100 ml (3.4 Fl. Oz)	150 ml (5 Fl. Oz)	200 ml (6.8 Fl. Oz)	Spray when pests first appear. Repeat every 5 to 7 days.
THRIPS	10 ml (2 Tsp)	50 ml (1.7 Fl. Oz)	100 ml (3.4 Fl. Oz)	150 ml (5 Fl. Oz)	200 ml (6.8 Fl. Oz)	Spray when pests first appear. Repeat every 5 to 7 days.

PESTS	RATE / 1 GAL	RATE/ 5 GAL	RATE/ 10 GAL	RATE/ 15 GAL	RATE/ 20 GAL	REMARKS
APHIDS	10 ml (2 Tsp)	50 ml (1.7 Fl. Oz)	100 ml (3.4 Fl. Oz)	150 ml (5 Fl. Oz)	200 ml (6.8 Fl.Oz)	Spray when pests first appear. Repeat every 5 to 7 days.
LACE BUGS	10 ml (2 Tsp)	50 ml (1.7 Fl. Oz)	100 ml (3.4 Fl.Oz)	150 ml (5 Fl. Oz)	200 ml (6.8 Fl. Oz)	Spray when pests first appear. Repeat every 5 to 7 days.
FLIES	10 ml (2 Tsp)	50 ml (1.7 Fl. Oz)	100 ml (3.4 Fl. Oz)	150 ml (5 Fl. Oz)	200 ml (6.8 Fl. Oz)	Spray when pests first appear. Repeat every 5 to 7 days.
CATERPILLARS	10 ml (2 Tsp)	50 ml (1.7 Fl. Oz)	100 ml (3.4 Fl. Oz)	150 ml (5 Fl. Oz)	200 ml (6.8 Fl. Oz)	Spray when pests first appear. Repeat every 5 to 7 days.
BORERS	10 ml (2 Tsp)	50 ml (1.7 Fl. Oz)	100 ml (3.4 Fl. Oz)	150 ml (5 Fl. Oz)	200 ml (6.8 Fl. Oz)	Spray when pests first appear. Repeat every 5 to 7 days.
BETTERLES	10 ml (2 Tsp)	50 ml (1.7 Fl. Oz)	100 ml (3.4 Fl. Oz)	150 ml (5 Fl. Oz)	200 ml (6.8 Fl. Oz)	Spray when pests first appear. Repeat every 5 to 7 days.
WEEVILS	10 ml (2 Tsp)	50 ml (1.7 Fl. Oz)	100 ml (3.4 Fl. Oz)	150 ml (5 Fl. Oz)	200 ml (6.8 Fl. Oz)	Spray when pests first appear. Repeat every 5 to 7 days.
NEMATODES	10 ml (2 Tsp)	50 ml (1.7 Fl. Oz)	100 ml (3.4 Fl. Oz)	150 ml (5 Fl. Oz)	200 ml (6.8 Fl. Oz)	Spray when pests first appear. Repeat every 5 to 7 days.
MITES	10 ml (2 Tsp)	50 ml (1.7 Fl. Oz)	100 ml (3.4 Fl. Oz)	150 ml (5 Fl. Oz)	200 ml (6.8 Fl. Oz)	Spray when pests first appear. Repeat every 5 to 7 days.
FUNGAL DISEASES	10 ml (2 Tsp)	50 ml (1.7 Fl. Oz)	100 ml (3.4 Fl. Oz)	150 ml (5 Fl. Oz)	200 ml (6.8 Fl. Oz)	Spray when pests first appear. Repeat every 5 to 7 days.

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

**(5). ECOWORKS EC® USES FOR GREENHOUSES, SOIL-LESS MEDIUM, SHADECLOTH AND NURSERIES-RECIRCULATORY APPLICATIONS.**

Use ECOWORKS EC® in re-circulatory applications for effective control of foliar and soil borne insect larvae, including soil borne larvae of foliar pests such as 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.

<b>ECOWORKS EC® APPLICATION TABLE FOR ALL INDOOR PLANTS SUCH AS GREENHOUSE, UNDER SHADECLOTHES, INTERIORSCAPES, NURSERIES, SOIL-LESS MEDIUM CROPS AND RECIRCULATORY APPLICATIONS</b>					
<b>Gallon of water</b>	<b>AMOUNT OF ECOWORKS EC</b>				<b>APPLI-CATION INTERVAL</b>
	<b>0.05%</b>	<b>0.1%</b>	<b>0.15%</b>	<b>0.2%</b>	
1 GALLON	2 ml (2/5 Tsp)	4 ml (4/5 Tsp)	6 ml (1.2 Tsp)	8 ml (1.6 Tsp)	7 – 14 days
5 GALLONS	10 ml (2 Tsp)	20 ml (4 Tsp)	30 ml (1 Fl. Oz)	40 ml (1.4 Fl. Oz)	7 – 14 days
10 GALLONS	20 ml (4 Tsp)	40 ml (1.4 Fl. Oz)	60 ml (2 Fl.Oz)	80 ml (2.7 Fl. Oz)	7 – 14 days
20 GALLONS	40 ml (1.4 Fl.Oz)	80 ml (2.7 Fl.Oz)	120 ml (4 Fl. Oz)	160 ml (5.4 Fl. Oz)	7 – 14 days
30 GALLONS	60 ml (2 Fl. Oz)	120 ml (4 Fl. Oz)	180 ml (6 Fl. Oz)	240 ml (8 Fl. Oz)	7 – 14 days
40 GALLONS	80 ml (2.7 Fl. Oz)	160 ml (5.4 Fl. Oz)	240 ml (8 Fl. Oz)	320 ml (10.8 Fl.Oz)	7 – 14 days

Use ECOWORKS EC® in re-circulatory system for control of listed foliar pests, soil borne insect larvae, fungus gnats, nematodes & fungal diseases. Only dilute ECOWORKS EC® 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). ECOWORKS EC® USES FOR GREENHOUSES, SOIL-LESS MEDIUM, SHADECLOTH AND NURSERIES- DRENCH APPLICATIONS.**

Use ECOWORKS EC® as a soil drench for effective control of foliar and soil borne insect larvae, including soil borne larvae of foliar pests such as 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.

<b>ECOWORKS EC® APPLICATION TABLE FOR DRENCH APPLICATIONS FOR INDOOR PLANTS AND OUTDOOR PLANTS IN GREENHOUSES, SOIL-LESS MEDIUM CROPS</b>					
<b>Gallon of water</b>	<b>AMOUNT OF ECOWORKS EC</b>				<b>APPLI-CATION INTERVAL</b>
	<b>0.05%</b>	<b>0.1%</b>	<b>0.15%</b>	<b>0.2%</b>	
1 GALLON	2 ml (2/5 Tsp)	4 ml (4/5 Tsp)	6 ml (1.2 Tsp)	8 ml (1.6 Tsp)	7 – 14 days
5 GALLONS	10 ml (2 Tsp)	20 ml (4 Tsp)	30 ml (1 Fl. Oz)	40 ml (1.4 Fl. Oz)	7 – 14 days
10 GALLONS	20 ml (4 Tsp)	40 ml (1.4 Fl. Oz)	60 ml (2 Fl.Oz)	80 ml (2.7 Fl. Oz)	7 – 14 days
20 GALLONS	40 ml (1.4 Fl.Oz)	80 ml (2.7 Fl.Oz)	120 ml (4 Fl. Oz)	160 ml (5.4 Fl. Oz)	7 – 14 days
30 GALLONS	60 ml (2 Fl. Oz)	120 ml (4 Fl. Oz)	180 ml (6 Fl. Oz)	240 ml (8 Fl. Oz)	7 – 14 days
40 GALLONS	80 ml (2.7 Fl. Oz)	160 ml (5.4 Fl. Oz)	240 ml (8 Fl. Oz)	320 ml (10.8 Fl.Oz)	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) ECOWORKS EC® 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). ECOWORKS EC® USES IN CHEMIGATION.**

**GENERAL CHEMIGATION REQUIREMENTS**

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, you should 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.

**SPRINKLER CHEMIGATION REQUIREMENTS**

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 backward flow. The pesticide injection pipeline must contain a functional, automatic, quick closing valve to prevent flow of fluid backward toward the injection pump. The pesticide injection pipeline must also contain a functional, normally close 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 automatically or manually shut down. The system must contain functional inter-locking controls to automatically shut off the pesticide injection pump when the pump stops. The irrigation line or water pump must include a functional pressure to the point where pesticide distribution is adversely affected. Systems must use a metering pump such as a positive displacement injection pump (diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment. Apply this product continuously for the duration of the water application.

A dilution and supply tank should be used with good agitation. When used with supply tank, ECOWORKS EC® should be diluted at the rate of 2-6 Pints/ 50-200 gallons of water. Irrigate field first 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.

**DRIP (TRICKLE) CHEMIGATION REQUIREMENTS**

The system must contain a functional interlocking check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow. The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of the fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side to 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. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

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. 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.

A dilution and supply tank should be used with good agitation. ECOWORKS EC® should be diluted at the rate of 2-6 Pints/ 50-200 gallons of water. Irrigate field first 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.

#### GENERAL

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.

#### [Optional marketing claims, may be used on any panel]

- Controls listed Insects, Mites, Nematodes & Plant Diseases.
- Insecticide, Miticide, Nematicide & Fungicide.
- Broad Spectrum Control.
- Can be used the day of harvest.
- Rose and flower spray.
- Garden vegetable and Ornamental spray.
- Tomato and vegetable spray.
- Foliar and systemic application.

#### STORAGE AND DISPOSAL

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

**Pesticide Storage:** Do not store this product above 100 degrees F or below 20 degrees F for extended periods of time. Store in original container in a dry, cool, well-ventilated area.

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

**Container Disposal:** Non-refillable container. Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill container ¼ full with water and recap. Shake 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for disposal. Drain for 10 seconds after flow begins to drip. Repeat this procedure two more times. Offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

#### IMPORTANT: PLEASE READ BEFORE USE

#### LIMITED WARRANTY

ECOSTADT TECHNOLOGIES LLC warrants that to the extent permitted by applicable law, (a) this product conforms to chemical description on its label; (b) this product is reasonably fit for purposes stated on its label, subject to inherent risks referred to herein, when used in accordance with its directions; and (c) that 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. To the extent permitted by applicable law, there are no express warranties other than those set forth herein. ECOSTADT TECHNOLOGIES LLC neither makes nor intends, nor does it authorize any agent or representative to make, any other warranty, express or implied. To the extent permitted by applicable law, ECOSTADT TECHNOLOGIES LLC expressly excludes and disclaims all implied warranties of merchantability, fitness for purpose (or) any other warranty of quality of performance.

To the extent permitted by applicable law, this warranty does not extend to, and 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 permitted by applicable law, user's exclusive remedy and ECOSTADT TECHNOLOGIES LLC's or seller's exclusive liability for any claim loss, damage, or injury resulting from use or handling of this product, whether (or) not based in contract, negligence, strict liability in tort, (or) otherwise, shall be limited, at ECOSTADT TECHNOLOGIES LLC's option, to replacement, (or) repayment of the purchase price for, the quantity of product with respect to which damages are claimed