

# Essentria®

# All Purpose

## Insect Concentrate

**KILLS:** Crawling and Flying Insect Pests

**FOR USE:** Indoors, Outdoors, Fogging, Turf and Ornamental, On Animal and Mosquito Misting Applications, Golf Courses, Vegetables, Fruit Trees (Both Bearing and Non-Bearing), Pasture and Range, Nursery and Greenhouse

## SPECIMEN LABEL

### ACTIVE INGREDIENTS:

Rosemary Oil ..... 10%  
Peppermint Oil ..... 2%

**OTHER INGREDIENTS\*:** ..... 88%

**TOTAL:** ..... 1000%

\*Isopropyl Myristate, Isopropyl Alcohol, Polyglyceryl Oleate, Butyl Lactate and Vanillin

### PRECAUTIONARY STATEMENTS

**CAUTION** – May cause eye and skin irritation. Avoid contact with eyes, skin and clothing.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE):

Persons handling concentrate are recommended to wear:

- Protective eyewear
- Chemical resistant gloves made of neoprene, nitrile or natural rubber

**USER SAFETY RECOMMENDATIONS:** User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if the product gets inside. Wash thoroughly and put on clean clothing. Remove PPE after handling this product. Wash the outside of the gloves before removing.

**PHYSICAL AND CHEMICAL HAZARDS:** Do not use, pour, spill or store near heat or open flame. Store only in original container.

#### FIRST AID

<b>IF IN EYES</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a physician if irritation persists.</li></ul>
<b>IF ON SKIN</b>	<ul style="list-style-type: none"><li>• Wash exposed area thoroughly with soap and water.</li></ul>
<b>IF INHALED</b>	<ul style="list-style-type: none"><li>• Move exposed person to fresh air.</li><li>• If breathing problems persist, get medical attention.</li></ul>
<b>IF INGESTED</b>	<ul style="list-style-type: none"><li>• Rinse mouth out with water.</li><li>• Do not induce vomiting.</li><li>• Obtain medical attention if feeling sick or nauseous.</li></ul>

Seek medical attention if necessary.

**FOR CHEMICAL SPILL, LEAK, FIRE, OR EXPOSURE CALL:**

CHEMTREC 1-800-424-9300

**FOR MEDICAL EMERGENCIES ONLY, CALL: 1-800-248-7763**

**KEEP ALL INSECTICIDES OUT OF REACH OF CHILDREN**

### KEEP OUT OF REACH OF CHILDREN CAUTION

See Additional Precautionary Statements and  
Directions for Use

### FIFRA 25(b) Exemption

### DIRECTIONS FOR USE

#### READ ENTIRE LABEL — USE IN ACCORDANCE WITH LABEL INSTRUCTIONS

Food processing operations may continue when this product is applied as a surface spray with care and in accordance with the directions and precautions given below.

#### SHAKE WELL BEFORE USING

Maintain agitation in all spray systems. Essentria® All Purpose Insect Concentrate is intended for use in and around buildings and structures as well as modes of transport.

**INDOOR USE AREAS:** Includes, but is not limited to, apartment buildings, bakeries, beverage plants, bottling facilities, breweries, cafeterias, candy plants, canneries, cereal processing and manufacturing plants, dairy barns, poultry facilities, flour mills, food processing plants, frozen food plants, homes, hospitals, hotels, houses, industrial buildings, kennels, kitchens, laboratories, manufacturing facilities, mausoleums, meat processing and packaging plants, meat and vegetable canneries, motels, nursing homes, office buildings, restaurants, schools, stores, supermarkets, warehouses and similar structures.

**OUTDOOR AREAS:** Includes, but is not limited to, building foundations, dairy facilities, drive-in restaurants, drive-in theaters, golf courses, parks, playgrounds, poultry houses, recreational areas, schools, urban areas, lawns, landscape areas, trees, turf and zoos.

**MODES OF TRANSPORT:** Aircraft, buses, trucks, trailers, rail cars and marine vessels.

**NOTE:** For sensitive indoor/outdoor surfaces such as vinyl, plastic, fabric, wood floors, etc., test a small non-visible area first before spraying. This includes vinyl siding, outdoor furniture, storm doors and windows, etc. It is possible that Essentria® All Purpose Insect Concentrate may mar some sensitive surfaces. If spray gets on any sensitive surface that is listed, simply rinse with water and wipe off with clean cloth. Essentria® All Purpose Insect

Concentrate may be diluted with water or oil and applied with conventional application equipment including, but not limited to, compressed air sprayers and power sprayers. When diluting with water, prepare only the amount needed for immediate use and maintain agitation during use. Do Not Store Spray Solution Overnight. For oil dilutions that are applied in food handling establishments, a deodorized petroleum oil which conforms to CFR 21 (especially section 172.884) is required (such as Exxon® Isopar® M, Ashland® Low Odor Base Solvent or the equivalents). Tank mix applications must be made in accordance with the more restrictive of label limitations and precautions. No label dosages may be exceeded. This product cannot be tank mixed with any product with label prohibitions against such mixing.

Most effective results are achieved when used as part of a treatment protocol that includes physical, environmental and other chemical pest control measures.

## INDOOR USE

Before applying to house plants, test for phytotoxicity. Cover any aquaria prior to spraying.

**GENERAL PEST CONTROL:** To control accessible, exposed stages of crawling insects including, but not limited to, ants, bed bugs, cockroaches, cadelles, cigarette beetles, dark mealworms, dried fruit beetles, drugstore beetles, confused flour beetles, fleas, grain mites, fowl mites, mites, nuisance beetles (such as lady beetles), red flour beetles, rice weevils, saw-toothed grain beetles, scorpions, spiders, spider beetles, yellow mealworms in sites that include, but are not limited to, apartments, homes, restaurants, food processing plants, industrial installations and warehouses, dilute at the rate of up to 0.5 to 6 fluid ounces of Essentria® All Purpose Insect Concentrate per gallon of water (use lower rate for maintenance service and higher rates for active infestations). Thoroughly spray non-visible areas where these insects are usually found with special attention to cracks and crevices, niches, dark corners, drains and other harborage sites. Mix Essentria® All Purpose Insect Concentrate at a rate of 1 to 6 fluid ounces per gallon of water, when treating for fleas. Thoroughly apply as a fine particle broadcast spray to infested rugs, carpets, furniture, and other pet resting areas. Remove old pet bedding and replace with clean, fresh bedding after treatment. When treating for bed bugs, thoroughly clean and vacuum all mattresses and springs prior to treatment. When treating for bed bugs, mix Essentria® All Purpose Insect Concentrate at a rate of 1 to 6 fluid ounces per gallon of water. Thoroughly clean, vacuum, and sanitize mattress and bedding. Thoroughly apply as a fine particle broadcast spray, paying special attention to cracks and crevices, around baseboards, floorboards, headboards, nightstands, walls, and other harborage areas. On mattresses, you may apply a broadcast treatment, concentrating on the tufts, seams, folds, and creases. Repeat as necessary.

**FOGGING:** To control crawling and flying insects (moths and flies, including house flies, horse flies, stable flies, horn flies, mosquitoes, gnats, fruit flies, phorid flies, granary weevils, rice weevils, confused flour beetles, saw-toothed grain beetles, spider beetles, cigarette beetles, drugstore beetles, angoumois grain moths, Mediterranean flour moths, Indian meal moths, tobacco moths, yellow mealworms, dark mealworms, grain mites, cadelles, red flour beetles, etc.) in sites that include, but are not limited to, food processing plants, (INCLUDING USDA INSPECTED FACILITIES), industrial installations, animal quarters (cattle barns, horse barns, poultry barns, swine houses, zoos and warehouses), Essentria® All Purpose Insect Concentrate may be applied as a space spray through conventional fogging equipment misting systems (including mist sprayers and mist blowers), automated spray systems, and/or related application technologies. Cover sensitive surfaces (plastics, etc). Close and shut off air conditioning or ventilating equipment. Mix 4 to 10 fluid ounces of Essentria® All Purpose Insect Concentrate insecticide with sufficient oil to equal 1 gallon of diluted spray. (It is recommended to use lower rates in most food facility applications). Apply at a rate of 1 to 3 fluid ounces per 1,000 cubic feet, filling the room with mist (or fog, if thermal equipment is used). Keep area closed for at least 15 minutes. Vacate treated area. Ventilate before reoccupying. Fogging may create slippery conditions

on painted floor surfaces. Retreat if reinfestation occurs.

The product does contain plant oils that are inherently fragrant. When used in confined spaces, prolonged exposure to the fragrance may be objectionable to some individuals.

## OUTDOOR USE

**PERIMETER TREATMENTS AND RECREATIONAL AREAS:** To control aphids, ants, bees, boxelder bugs, centipedes, cockroaches, crickets, darkling beetles, firebrats, fleas, ground beetles, fowl mites, mites, millipedes, pillbugs, scorpions, silverfish, sowbugs, spiders, ticks and wasps, in compressed air sprayers, dilute 1 to 8 fluid ounces of Essentria® All Purpose Insect Concentrate per gallon of water (use lower rate for maintenance service and higher rates for active infestations) and apply at the rate of 2 gallons per 1,000 square feet or until area is thoroughly wet. Also apply to a band of soil and vegetation 6 to 10 feet wide around and adjacent to buildings. Treat the building foundation to a minimum height of 2 to 3 feet with sufficient water for coverage. Make special efforts to spray areas where pest species congregate such as, but not limited to, waste receptacles, dumpsters, unoccupied picnic tables, the exterior of food handling establishments, and food pavilions. Additionally, apply around potential entry areas such as, but not limited to, eaves, windows, doorways, porches, porch lights, and around utility boxes. For power sprayers, mix approximately 1 to 6 fluid ounces of Essentria® All Purpose Insect Concentrate per gallon of water (use lower rate for maintenance service and higher rates for active infestations) and apply until area is sufficiently covered (usually min. 4 gallons per 1,000 square feet). When power spraying, it may be possible to batch mix 8 to 12 fluid ounces of Essentria® All Purpose Insect Concentrate into 50 gallons of water. When using this method, monitor application for desired performance. Maintain agitation. Repeat as necessary.

**MOUND DRENCH METHOD - FOR CONTROL OF FIRE ANTS AND OTHER MOUNDING ANTS:** Dilute 2 to 4 fluid ounces of Essentria® All Purpose Insect Concentrate per gallon of water. Apply 1 to 2 gallons of emulsion to each mound area by sprinkling the mound until it is wet and treat a 4 foot diameter circle around the mound. Use the higher volume for mounds larger than 12 inches. For best results, apply in cool weather, such as the early morning or late evening hours, but not in the heat of the day.

**MOSQUITO CONTROL AND OTHER BITING FLIES - OUTDOOR YARD OR BARRIER TREATMENT:** To control adult mosquitoes and other biting flies using ground application, dilute 1 to 3 fluid ounces of Essentria® All Purpose Insect Concentrate per gallon of water. Treat harborage areas such as shrubbery and vegetation where mosquitoes/flies may rest. Shrubbery and vegetation around stagnant pools, marshy areas, ponds and shorelines may be treated. Repeat as necessary.

**MOSQUITO CONTROL AND OTHER BITING INSECTS - AUTOMATIC SPRAYING SYSTEMS:** Automatic spraying systems must not be programmed to release pesticides where food or feed is directly exposed. To control flies, house flies, horn flies, stable flies, horse flies, mosquitoes and gnats, add concentrate to tank and add water to obtain desired dilution. Agitate well while adding water and maintain thorough agitation while system is in use. In automatic spraying systems like, but not limited to, misting systems used for mosquito and other biting insect control, solutions of Essentria® All Purpose Insect Concentrate may be stored for extended periods of time, as long as the system has agitation and the appropriate quantity of adjuvant is used.

Dispense diluted concentrate through automatic spraying system. Set nozzles to deliver one fluid ounce of liquid per minute. Locate nozzles to cover a maximum of 2,000 cubic feet of space per nozzle. Set timer to operate in accordance with equipment directions. Dilute Essentria® All Purpose Insect Concentrate just prior to use at 0.5 to 3 fluid ounces per gallon of water (Use lower dilution rates for preventative applications).

**TO CONTROL SPIDERS, FLYING INSECTS, AND OTHER NUISANCE PESTS ON AND AROUND BOAT DOCKS:** As an aid in the elimination of their harborage areas, dilute 2 to 8 fluid ounces of Essentria® All Purpose Insect

Concentrate per gallon of water and apply at the rate of 2 gallons per 1,000 square feet or until area is thoroughly wet. Since flying insects can migrate in and out of the treatment area, it is recommended to use this product as part of an Integrated Pest Management (IPM) program. This includes, but is not limited to, eliminating breeding and harborage sites.

**USE ON TURF AND GRASS:** Use alone as a contact spray. To control ants, armyworms, billbugs, chinch bugs, chiggers, crickets, cutworms, earwigs, fleas, grasshoppers, hyperodes weevils (adults), Japanese beetles (adults), mole crickets, sod webworms and ticks, dilute in a compressed air sprayer (or backpack), 2 to 4 fluid ounces of Essentria® All Purpose Insect Concentrate per gallon of water and apply at the rate of 2 to 4 gallons per 1,000 square feet or until area is thoroughly wet. For power sprayers, apply approximately 1 to 6 fluid ounces of Essentria® All Purpose Insect Concentrate per 1,000 square feet in 2 to 4 gallons of water. Apply until area is sufficiently covered. Exceeding rates may create potential phytotoxicity of turf surfaces.

**USE ON NON-BEARING TREES AND SHRUBS:** To control mites, scale insects, mealybugs, aphids, lace bugs, whiteflies, tent caterpillars, bagworms and beetles, dilute up to 1 to 6 fluid ounces of Essentria® All Purpose Insect Concentrate per gallon of water and apply using a compressed air sprayer or power sprayer until foliage is thoroughly wet. Maintain agitation.

Exceeding rates may create potential phytotoxicity on plant surfaces. Dilute with enough water to obtain thorough coverage.

#### **DIRECTIONS FOR USE IN OUTDOOR RESIDENTIAL MISTING SYSTEMS:**

Use to control or temporarily reduce annoyance from accessible stages of: mosquitoes, flies, house flies, gnats, deer flies, horse flies, hornets, wasps, yellow jackets, firebrats, small flying moths, earwigs, fleas, ticks, crickets, cockroaches, silverfish, spiders and other nuisance insects.

If used in a system with a reservoir tank for the end use dilution, the system reservoir tank must be locked. Securely attach the end-use pesticide label and a dilution statement to the system reservoir tank in a weather protected area or plastic sleeve. The dilution statement must be phrased as follows: This container holds \_\_ parts Essentria® All Purpose Insect Concentrate to \_\_ parts water.

If used in a direct injection system, the pesticide container must be locked. Securely attach the end-use label to the pesticide container in a weather protected area or plastic sleeve.

Only use this product in residential misting systems that have been calibrated to apply no more than the maximum application rate of 9.5 fluid ounces solution per 1,000 cubic feet per day. Mix ½ gallon to 2 gallons (64 fluid ounces to 256 fluid ounces) of Essentria® All Purpose Insect Concentrate in 55 gallons of water.

In automatic spraying systems like, but not limited to, misting systems used for mosquito and other biting insect control, solutions of Essentria® All Purpose Insect Concentrate may be stored for extended periods of time, as long as the system has agitation and the appropriate quantity of adjuvant is used.

For high populations of insects or when treating species that are difficult to control, mix up to 2 gallons of concentrate in 55 gallons of water. When filling tank, partially fill the system reservoir tank with water, add concentrate to tank, then add water to obtain desired dilution. System nozzles should deliver fine particle size droplets (aerosol or mist). Direct nozzles to spray towards the target area and away from swimming pools, water bodies, or eating and cooking areas. Set system timer to operate in accordance with equipment directions.

#### **LIVESTOCK USE DIRECTIONS**

USE	INSECTS	DILUTION Essentria® All Purpose Insect Concentrate	REMARKS
Livestock Spray (Beef Cattle, Swine, Goats and Sheep)	To control flying insects, including, but not limited to: Flies, House Flies, Deer Flies, Stable Flies and aids in the control of Face Flies	1 to 3 fl oz per gal of water or mineral oil USP	Dilute as indicated and spray directly on the animal in sufficient amounts for proper coverage. There is no withholding period from last application to slaughter.
	Ticks and Lice	1 to 3 fl oz per gal of water or mineral oil USP	Apply as above
Livestock Spray (Lactating Dairy Cattle)	To control flying insects, including, but not limited to: Flies, House Flies, Deer Flies, Stable Flies and aids in the control of Face Flies	1 to 3 fl oz per gal of water or mineral oil USP	Dilute as indicated. Direct spray to cover thoroughly. Repeat as necessary. No milk discard is required. Take care that the spray does not come in direct contact with the lactating cow's teats unless they are washed with an approved cleansing solution and dried before milking. Apply the spray at least 20 minutes prior to milking or after milking has been completed.
	Ticks and Lice	1 to 3 fl oz per gal of water or mineral oil USP	Apply as above
Horses	To control flying insects, including, but not limited to: Flies, House Flies, Deer Flies, Stable Flies and aids in the control of Face Flies	1 to 3 fl oz per gal of water or mineral oil USP	Dilute as indicated and spray directly on the animal in sufficient amounts for proper coverage.
Poultry	Bed Bugs, Lice, Fleas, All Mites including Northern Fowl Mites	1 to 3 fl oz per gal of water or mineral oil USP	Thoroughly spray roosts, roost poles, walls (especially cracks in walls), and nests or cages. It is not necessary to remove poultry from the housing unit during treatment. This should be followed by spraying over the birds with a fine mist in sufficient amounts for proper coverage.

#### **PREMISE USE DIRECTIONS FOR LIVESTOCK FACILITIES**

USE	INSECTS	DILUTION Essentria® All Purpose Insect Concentrate	REMARKS
Residual Surface Spray	Flies, Gnats, Litter Beetles, Darkling Beetles (Lesser Mealworms) Mosquitoes, Spiders, Wasps	3 to 6 fl oz per gal of water or mineral oil USP	Apply 1 gallon of dilution per 500 - 1,000 sq ft. Thoroughly cover walls, ceilings or other areas where pests rest or congregate in dairy barns, horse barns, poultry houses, swine buildings, livestock sheds, and other farm buildings.
Larvicide	Maggots (Fly Larvae)	4 to 8 fl oz per gal of water or mineral oil USP	Apply 1 gallon of dilution per 100 sq ft of droppings as a coarse spray. Repeat at 7 - 10 day intervals until droppings begin to cone up, then treat only "hot spots" (small areas found to have large number of maggots).



**DIRECTIONS FOR USE IN AUTOMATIC MISTING AND ULV SPRAYING SYSTEMS:**

In areas such as animal quarters, dairy and beef barns, poultry houses, swine housing, warehouses, zoos and other listed livestock or animal housing areas, **to kill flies, house flies, horn flies, stable flies, deer flies, horse flies, mosquitoes, gnats, hornets, wasps, yellow jackets, firebrats, small flying moths, earwigs, fleas, ticks, crickets, cockroaches, silverfish, spiders and other listed insects:** Mix ½ gallon (64 fluid ounces) of concentrate into 55 gallons of water. For high populations of insects or when treating species that are difficult to control, mix up to 2 gallons (256 fluid ounces) of concentrate in 55 gallons of water.

When filling tank, partially fill the system reservoir tank with water, add concentrate to tank, then add water to obtain desired dilution. System nozzles should deliver fine particle size droplets (aerosol or mist). Nozzles should be rated for a delivery rate not to exceed 1.25 fluid ounces (37 ml) of solution per minute, with one nozzle covering 100 square feet (9.3 m<sup>2</sup>). Set system timer to operate in accordance with equipment directions.

In automatic spraying systems like, but not limited to, misting systems used for mosquito and other biting insect control, solution of Essentria® All Purpose Insect Concentrate may be stored for extended periods of time as long as the system has agitation and the appropriate quantity of adjuvant is used.

Personnel should vacate containment treatment areas while treatment is in progress. Thoroughly ventilate treated areas prior to re-entry by personnel.

**AGRICULTURE APPLICATION RATES**

Spray when pests first appear. Repeat application every 7-21 days.

CROPS INCLUDING, BUT NOT LIMITED TO	INSECTS/MITES INCLUDING, BUT NOT LIMITED TO	APPLICATION RATE IN 100 GALLONS PER ACRE FOR GROUND APPLICATIONS
<b>Legume and Fruiting Vegetables</b> Beans, Eggplants, Lentils, Peas, Peanuts, Peppers, Tomatoes	Aphids, Whiteflies, Beetles, Two-Spotted Spider Mites, Plant Bugs, Thrips and Early Stages of Caterpillars	1 - 4 Pints
<b>Bulb, Cole and Leafy Vegetables</b> Broccoli, Cabbage, Cauliflower, Celery, Garlic, Lettuce, Onions, Spinach	Aphids, Whiteflies, Beetles, Two-Spotted Spider Mites, Plant Bugs, Thrips and Early Stages of Caterpillars	1 - 4 Pints For onions: Use 1 - 5 pints
<b>Cucurbits</b> Cantaloupes, Cucumbers, Melons, Squashes, Watermelons	Aphids, Whiteflies, Beetles, Two-Spotted Spider Mites, Plant Bugs, Thrips and Early Stages of Caterpillars	1 - 4 Pints
<b>Root and Tuber Vegetables</b> Carrots, Potatoes, Radishes, Sweet Potatoes, Turnips	Aphids, Plant Bugs, Potato Leafhoppers, Two-Spotted Spider Mites and Thrips	1 - 4 Pints
<b>Alfalfa</b>	Aphids, Leafhoppers, Plant Bugs, Thrips and Early Stages of Caterpillars	1.5 - 4 Pints
<b>Herbs and Spices</b> Anise, Basil, Dill, Mint, Peppermint, Spearmint, Thyme, Wintergreen	Aphids, Leafhoppers, Plant Bugs, Thrips and Early Stages of Caterpillars	1 - 3 Pints
<b>Small Fruits and Berries</b> Blackberries, Blueberries, Cranberries, Raspberries, Strawberries	Aphids, Leafhoppers, Mealybugs, Whiteflies, Lygus Bugs, Thrips, Two-Spotted Spider Mites, Pacific Spider Mites, McDaniel Mites, European Red Mites and Early Stages of Leafrollers and Caterpillars	1 - 4 Pints
<b>Grapes and Hops</b> Grapes (Raisin, Table, Wine)	Leafhoppers, Sharpshooters, Two-Spotted Spider Mites, Pacific Spider Mites, Willamette Mites, Thrips, Mealybugs and Early Stages of Leafrollers and Caterpillars	1 - 4 Pints
<b>Stone Fruits, Pome Fruits</b> Apples, Apricots, Cherries, Peaches, Nectarines, Olives, Pears, Plums, Prunes, Pomegranates and Persimmons	Aphids, Thrips, Leafhoppers, Psylla, Scales, Two-Spotted Spider Mites, Pacific Mites, McDaniel Mites, European Red Mites, Early Stages of Leafrollers and Caterpillars	1 - 4 Pints
<b>Citrus and Sub Tropicals</b> Avocados, Lemons, Grapefruits, Oranges, Papayas, Bananas, Plantains, Mangos	Aphids, Thrips, Scales, Two-Spotted Spider Mites, Pacific Mites, Citrus Red Mites, Citrus Rust Mites, European Red Mites, Early Stages of Leafrollers and Caterpillars	2 - 5 Pints

CROPS INCLUDING, BUT NOT LIMITED TO	INSECTS/MITES INCLUDING, BUT NOT LIMITED TO	APPLICATION RATE IN 100 GALLONS PER ACRE FOR GROUND APPLICATIONS
CONTINUED FROM PREVIOUS PAGE		
<b>Nuts</b> Almonds, Cashews, Pecans, Pistachios, Walnuts	Aphids, Thrips, Two-Spotted Spider Mites, Pacific Mites, McDaniel Mites and European Red Mites	1 - 4 Pints
<b>Field Crops</b> Corn, Cotton, Sorghum, Soybeans, Sweet Corn, Tobacco	Aphids, Soybean Aphids, Beetles, Whiteflies, Two-Spotted Spider Mites, Plant Bugs, Thrips, and Early Stages of Caterpillars	2 - 4 Pints
<b>Christmas Trees</b> Caution: Certain adjuvants may affect coloration of Blue Spruce	Mites and Aphids	1 - 4 Pints
<b>Backyard Fruit and Nut Trees</b>	Mites and Aphids	12 - 48 fl oz Use sufficient water to get thorough coverage.
<b>Mushroom Houses</b>	Mushroom Flies (Phorids and Sciarids)	4 - 8 fl oz per gallon - Spray dilution on outside and inside walls, floors, and sideboards of mushroom houses after compost has been pasteurized by heating. Also spray over the plastic covering the beds and trays after spawning. Retreat as needed.

For aerial applications, use a minimum of 15 gallons of spray volume per acre. Complete coverage of foliage is essential to achieve control. The foliage should be completely WET, but avoid runoff. The use of a spreader and/or penetrant adjuvant improves product performance.

**PESTS CONTROLLED THROUGH DRIP IRRIGATION SYSTEMS** (including but not limited to): cutworms, wireworms, root maggots, symphylans, and crickets.

**CROPS TREATED BY DRIP IRRIGATION** (including but not limited to): Beets, Brussel Sprouts, Cabbage, Chinese Broccoli, Broccoli, Chinese Cabbage, Chinese Mustard, Cauliflower, Collards, Endive, Garlic, Ginseng, Kale, Melons (Cantaloupes, Casabas, Honeydew, Muskmelons, Persians, and Watermelons), Onions (Bulb and Green), Parsnips, Potatoes, Sweet Potatoes, Spinach, Strawberries, Sugar Beets, Sweet Corn, Tomatoes.

Apply Essentria® All Purpose Insect Concentrate through the drip irrigation systems at a rate of 2 pints per acre of plant bed as a preventative treatment or when pest infestation is low to moderate and 4 pints per acre of plant bed when pest infestation is high. Apply 2 to 3 applications of Essentria® All Purpose Insect Concentrate over a 7 to 14 day schedule. Refer to local extension recommendations for additional information regarding pest populations and thresholds.

Essentria® All Purpose Insect Concentrate can be applied at any time during the crop cycle, from the time of planting to the harvest and there are no restrictions on the number of applications per season. For drip irrigation systems, set the emitter spacing and the line pressure to give the best bed coverage and reduce loss of chemigation products through leaching.

BED WIDTH	LINEAR FEET OF BED TO EQUAL ONE ACRE	ESSENTRIA®, 2 PTS/ACRE RATE/1000 ROW FEET	ESSENTRIA®, 4 PTS/ACRE RATE/1000 ROW FEET
36 inches	14,520 ft	2.2 fl oz	4.4 fl oz
48 inches	10,890 ft	2.9 fl oz	5.9 fl oz
60 inches	8,712 ft	3.7 fl oz	7.3 fl oz
72 inches	7,260 ft	4.4 fl oz	8.8 fl oz

**USE RATES FOR ANY PLANTS GROWN INDOORS OR IN GREENHOUSES,  
SHADEHOUSES, INTERIORSCAPES, AND NURSERIES**

Spray when pests first appear. Repeat application every 7-21 days.

**PLANT TOLERANCE**

Essentria® All Purpose Insect Concentrate has been evaluated for phytotoxicity on a wide range of ornamental plants. However, due to the large number of species and varieties of ornamental plants, it is impossible to test every one for tolerance to Essentria® All Purpose Insect Concentrate. The professional user should determine if Essentria® All Purpose Insect Concentrate could be used safely prior to commercial use. In a small area, test the recommended rates on a small number of plants for phytotoxicity prior to widespread use. Before using Essentria® All Purpose Insect Concentrate in tank mixture with other products and adjuvants, test the mixture on a small number of plants for phytotoxicity prior to widespread use.

PESTS INCLUDING, BUT NOT LIMITED TO	FL OZ/10 GAL SPRAY SOLUTION	FL OZ/100 GAL SPRAY SOLUTION
<b>APHIDS:</b> Green Peach Aphids, Pea Aphids, Cotton Aphids, Rose Aphids	2 - 4	20 - 40
<b>BEETLES:</b> Flea Beetles, Leaf Beetles	2.0 - 4.8	20 - 48
<b>Early Stages of Caterpillars:</b> Armyworms, Leafrollers, Loopers, Webworms	1.6 - 3.2	16 - 32
<b>FLIES:</b> Fungus Gnats, Shore Flies	1.6 - 3.2	16 - 32
<b>LEAFHOPPERS:</b> Grape Leafhoppers, Potato Leafhoppers	1.6 - 3.2	16 - 32
<b>LEAFMINERS:</b> Azalea Leafminers, Citrus Leafminers, Blotch Leafminers, Boxwood Leafminers	1.6 - 3.2	16 - 32
<b>MEALYBUGS:</b> Citrus Mealybugs, Long-tailed Mealybugs	1.6 - 3.2	16 - 32
<b>MITES:</b> Two-Spotted Spider Mites, Broad Mites, Citrus Budmites, Cyclamen Mites, Rust Mites	1.6 - 4.8	16 - 48
<b>SOFT SCALES (Crawler Stages)</b>	1.6 - 4.8	16 - 48
<b>THRIPS:</b> Western Flower Thrips	3.2 - 6.4	32 - 64
<b>WHITEFLIES:</b> Greenhouse Whiteflies, Silverleaf Whiteflies	1.6 - 3.2	16 - 32

Complete coverage of foliage is essential to achieve control. The foliage should be completely WET, but avoid runoff. The use of a spreader and/or penetrant adjuvant improves product performance.

**USE RATES FOR OUTDOOR PLANTS INCLUDING TREES, LANDSCAPES,  
NURSERY, AND ALL OUTDOOR ORNAMENTAL PLANTS**

Spray when pests first appear. Repeat application every 7-21 days.

PESTS INCLUDING, BUT NOT LIMITED TO	FL OZ/10 GAL SPRAY SOLUTION	FL OZ/100 GAL SPRAY SOLUTION
<b>APHIDS:</b> Green Peach Aphids, Pea Aphids, Cotton Aphids, Rose Aphids	2 - 4	20 - 40
<b>BEETLES:</b> Colorado Potato Flea Beetles, Japanese Beetles, Leaf Beetles, Mexican Bean Beetles, Rose Chafers, Twig Girders	3.2 - 6.4	32 - 64
<b>BUGS:</b> Boxelder Bugs, Chinch Bugs, Lygus Bugs, Spittle Bugs	1.6 - 4.8	16 - 48
<b>Early Stages of Caterpillars:</b> Armyworms, Cutworms, Fruitworms, Gypsy Moths, Hornworms, Leafrollers, Navel Orange Worms, Pine Tip Moths, Sod Webworms, Tent Caterpillars, Tobacco Budworms, Tussock Moths	1.6 - 3.2	16 - 32
<b>FLIES:</b> Cherry Maggots, Crane Flies, Midges	2.0 - 4.0	20 - 40
<b>LEAFHOPPERS:</b> Variegated Leafhoppers and Sharpshooters	3.2 - 6.4	32 - 64
<b>LEAFMINERS:</b> Azalea Leafminers, Citrus Leafminers, Blotch Leafminers, Boxwood Leafminers	1.6 - 4.8	16 - 48

PESTS INCLUDING, BUT NOT LIMITED TO	FL OZ/10 GAL SPRAY SOLUTION	FL OZ/100 GAL SPRAY SOLUTION
<b>CONTINUED FROM PREVIOUS PAGE</b>		
<b>MEALYBUGS:</b> Apple Mealybugs, Citrus Mealybugs, Grape Mealybugs	1.6 - 4.8	16 - 48
<b>MITES:</b> Two-Spotted Spider Mites, Broad Mites, Citrus Bud Mites, Cyclamen Mites, Rust Mites	1.6 - 4.8	16 - 48
<b>PSYLLIDS:</b> Pear psylla	1.6 - 4.8	16 - 48
<b>SAWFLIES:</b> European Pine Sawflies, Pear Sawflies, Red-headed Pine Sawflies, Yellow-headed Pine Sawflies.	1.6 - 3.2	16 - 32
<b>Crawler stages of SCALES:</b> Black Scales, Brown Soft Scales, California Red Scales, Coffee Scales, Olive Scales, San Jose Scales	1.6 - 4.8	16 - 48
<b>THRIPS:</b> Citrus Thrips, Onion Thrips, Western Flower Thrips	3.2 - 6.4	32 - 64
<b>WHITEFLIES:</b> Greenhouse Whiteflies, Silverleaf Whiteflies, Woolly Whiteflies	1.6 - 3.2	16 - 32

Complete coverage of foliage is essential to achieve control. The foliage should be completely WET, but avoid runoff. The use of a spreader and/or penetrant adjuvant improves product performance.

**STORAGE AND DISPOSAL**

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

**STORAGE:** Store in original container in a dry, cool place inaccessible to children and pets.

**DISPOSAL:** Do not reuse container. Discard in trash.

**IMPORTANT: READ BEFORE USE**

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

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