



# ECOTROL<sup>®</sup> PLUS

## INSECTICIDE/MITICIDE

A BROAD SPECTRUM BOTANICAL INSECTICIDE/MITICIDE FOR USE  
IN AGRICULTURE, FRUITS, NUTS, VEGETABLES, ORNAMENTALS,  
LANDSCAPES, TURF, GREENHOUSES, AND NURSERIES

- EMULSIFIABLE CONCENTRATE
- NO REENTRY INTERVAL
- NO PREHARVEST INTERVAL

### Active Ingredients:

Rosemary Oil.....	10.00%
Geraniol.....	5.00%
Peppermint Oil.....	2.00%
<b>Other Ingredients:*</b>	<b>83.00%</b>
<b>TOTAL</b>	<b>100.00%</b>

\*Butyl lactate, Isopropyl myristate, Polyglyceryl oleate,  
Isopropyl alcohol, Vanillin

## WARNING KEEP OUT OF REACH OF CHILDREN

Si usted no entiende la etiqueta, busque a alguien para que se la explique  
a usted en detalle. (If you do not understand the label, find someone to  
explain it to you in detail).

Use only according to label instructions. Read the entire label before  
using this product.

### First Aid

**IF IN EYES:** Flush with water for at least 15 minutes. Remove contact  
lenses, if present, after the first 5 minutes, then continue rinsing  
eye. Call a physician if irritation persists. **IF ON SKIN:** Wash exposed  
area with plenty of soap and water for at least 15 minutes. Remove  
contaminated clothing. Get medical attention if irritation persists.  
**IF INHALED:** Remove person to fresh air. **IF SWALLOWED:** Rinse mouth  
out with water. Seek medical attention if feeling sick or nauseous.

### PRECAUTIONARY STATEMENT

Avoid contact with eyes, skin, and clothing. Avoid breathing vapors or  
spray mist. May be harmful if swallowed. Wash thoroughly with soap  
and water after handling. Remove contaminated clothing and wash  
clothing before reuse.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Persons applying this product should wear:

- Long sleeve shirts and long pants, shoes and socks
- Protective eyewear
- Chemical resistant gloves made of neoprene, nitrile or natural rubber.

### User Safety Recommendations

Users 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 gloves before removing. As  
soon as possible, wash thoroughly and change into clean clothes.

### ENVIRONMENTAL HAZARDS

This product possesses minimum risk to fish and aquatic organisms.  
Avoid direct contact to water. This product may be toxic to bees so  
avoid application when bees are actively foraging.

### Physical or Chemical Hazards

Do not use, pour, spill or store near heat or open flames. Store only in  
original container.

For any requirements specific to your State or Tribe, consult the  
agency responsible for pesticide regulation

### NO REENTRY INTERVAL AND NO PREHARVEST INTERVAL.

### NON-AGRICULTURAL USE REQUIREMENTS

Keep unprotected persons out of treated areas until sprays have dried.  
Wear protective clothing when using or handling this product to help  
avoid exposure to eyes and skin. Eye protection, gloves, long-sleeved  
shirt, and long-pants are recommended. Allow spray to dry before  
allowing adults, children, or pets on treated areas.



### NET CONTENTS:

☐ QT, ☐ GAL, ☐ 2.5 GAL, ☐ 55 GAL, ☐ 275 GAL

*This product has not been registered by the United States Environmental  
Protection Agency. KeyPlex represents that this product qualifies for  
exemption from registration under the Federal Insecticide, Fungicide  
and Rodenticide Act."*

## GENERAL INFORMATION

KeyPlex Ecotrol® PLUS is a broad spectrum, contact botanical insecticide/miticide. It controls pests such as, but not limited to, aphids, thrips, whiteflies, mites, and plant bugs.

## DIRECTIONS FOR USE

Only protected handlers may be in the application area. Do not apply this product in a way that will contact workers or other persons either directly or through drift.

### PLANT SAFETY

The use directions of this product are based on the results of product testing programs on a wide variety of plants. However, it is impossible to test this product on all species and cultivars. The phytotoxicity of KeyPlex Ecotrol® PLUS has been assessed on a wide variety of common ornamental plants with no phytotoxicity. However, not all plant species and their varieties and cultivars have been tested with KeyPlex Ecotrol® PLUS applied alone or with possible tank mix combinations, sequential pesticide treatments, and adjuvants and surfactants. Local conditions also can influence plant tolerance and may not match those under which testing has been conducted. Therefore, before using KeyPlex Ecotrol® PLUS, test the products on a sample of the plant and/or seedling. Do not apply on plant when the temperature is 90° F or above.

### THE USE OF ADJUVANTS (SPREADERS AND/OR PENETRANTS) IS HIGHLY RECOMMENDED FOR IMPROVING PERFORMANCE.

**KeyPlex Ecotrol® PLUS can be applied through most standard or field type sprayers after dilution and mixing with water in accordance with label instructions. For best results, spray coverage should be uniform and complete. Always read and follow label directions for adjuvants.**

**PREHARVEST INTERVAL:** KeyPlex Ecotrol® PLUS may be applied to crops at any time up to and including the day of harvest.

**USE LOWER RATES FOR LIGHT TO MODERATE INSECT INFESTATIONS AND HIGHER RATES FOR HEAVY INFESTATIONS. REPEAT APPLICATION AS REQUIRED TO MAINTAIN THE DESIRED LEVEL OF CONTROL.**

## Mixing and Application Instructions

SHAKE WELL BEFORE USING. TO MAINTAIN A HOMOGENEOUS SPRAY MIXTURE, CONSTANT AGITATION OR RECIRCULATION IS REQUIRED.

Apply spray solutions in properly maintained and calibrated equipment capable of delivering the desired volumes. Always clean tank, pump and lines thoroughly with water after use.

### Mixing

Add KeyPlex Ecotrol® PLUS to one-half (1/2) tank under agitation containing water of 45° F or greater before filling to desired level. When combining with other products, such as adjuvants, insecticides,

fungicides, fertilizers or nutrients, add these products first when the tank is approximately 1/2 full. Ensure that there is good agitation while mixing for complete emulsification. Maintain agitation during spray application.

'In areas with hard water (water with a total hardness of greater than 200 ppm), it is recommended to completely fill tank with water first and then add a water softener, mix thoroughly, add the appropriate quantity of KeyPlex Ecotrol® PLUS, and mix thoroughly. It is critical that the water softener be added to the entire quantity of water and mixed thoroughly before introducing the KeyPlex Ecotrol® PLUS to achieve maximum emulsion.

### Application Equipment and Techniques

Spray droplet size should be adjusted to maximize coverage, minimize drift, and allow application to the intended exposure area only.

### Boom Equipment

For best insect control using hydraulic or hydraulic air assist equipment, use the recommended rate of this product in sufficient gallons of spray solution per acre as a broadcast spray. Spray should thoroughly wet foliage but not run off.

### Hand-held and High Volume Equipment

Spray-to-wet applications of this product may be made with knapsack and backpack sprayers, pump-up pressure sprayers, handguns, hand wands, and other hand-held spray equipment and vehicle mounted high volume spray equipment. For the most efficient use of spray mixture, spray all leaf surfaces uniformly and completely to wetness.

### AERIAL APPLICATIONS

- Prior to application, check the aircraft/helicopter spray equipment for uniformity of spray pattern, spray width and output.
- Apply a minimum of 5 gallons per acre of diluted product.
- Optimum results are obtained when plant foliage is not too dense.
- **COVERAGE IS ESSENTIAL FOR GOOD CONTROL.**
- Use an output that will ensure optimum product penetration and coverage.
- Make aerial applications when the wind velocity favors on-target product deposition (approximately 3 to 10 mph).
- Do not apply when wind velocity exceeds 15 mph.
- Low humidity and high temperature increase the evaporation rate of spray droplets and therefore the likelihood of good coverage.
- Use the largest droplet size consistent with good pest control.
- Formulation of very small droplets may be minimized by appropriate nozzle selection, by orientating nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.
- Spray should be released at the lowest height consistent with pest control and flight safety. Applications more than 10 feet above the crop canopy is not recommended.

#### **PROFESSIONAL USE**

- **PROVIDES KNOCKDOWN AND KILL**
- **PROVIDES RESIDUAL REPELLENCY PROTECTION**
- **UNIQUE MODE OF ACTION**
- **MINIMUM RISK PESTICIDE**
- **FOR USE IN AND AROUND SENSITIVE ACCOUNTS**

#### **Storage and Disposal**

Do not contaminate water, feed, or foodstuffs by storage or disposal.  
Storage: Keep container tightly closed when not in use. Store only in the original container in a cool dry place away from children and pets. Keep from freezing.

Container Disposal: Do not reuse empty container. Rinse empty container then puncture and dispose of container in a sanitary landfill, or incinerator, or if allowed by state and local regulations, by burning. If burned, stay out of smoke. Rinsed containers may be offered for recycling.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on-site or at an appropriate waste disposal facility.

Questions or Comments: Call 1-800-433-7017 weekdays, 9 a.m. to 4 p.m., EST

Chemical Safety Information: Call 1-800-535-5053 anytime (InfoTrac Chemical Response System)

**LIMIT OF WARRANTY AND LIABILITY:** KeyPlex warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the Complete Directions for Use ("Directions") when used in accordance with those Directions under the conditions described therein. NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall promptly notify KeyPlex of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of KeyPlex including, but not limited to, incompatibility with other products other than those set forth in Directions, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time periods when the product is applied, as well as weather conditions which are outside the applications ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop, or treated vegetation.

THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF KEYPLEX OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE ELECTION OF KEYPLEX OR SELLER, THE REPLACEMENT OF SUCH QUANTITY OR IF NOT ACQUIRED BY PURCHASE, REPLACEMENT OF SUCH QUANTITY. IN NO EVENT SHALL KEYPLEX OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES.

Buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY, which may not be varied by any verbal or written agreement.



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**AGRICULTURE APPLICATION RATES:** Spray when pests first appear. Repeat application every 5 to 7 days.

<b>Crops Including but not limited to...</b>	<b>Insects / Mites Including but not limited to...</b>	<b>Application Rate in 100 gallons per Acre for Ground Applications</b>
<b>Legume and Fruiting Vegetables:</b> Asparagus, Beans, Eggplants, Lentils, Peas, Peanuts, Peppers and Tomatoes	Aphids, Beetles, Whiteflies, Two-Spotted Spider Mites, Plant Bugs, Thrips, and Early stages of Caterpillars	1.0 - 4.0 pt
<b>Bulb, Cole and Leafy Vegetables:</b> Broccoli, Cabbage, Cauliflower, Celery, Garlic, Lettuce, Onions and Spinach	Aphids, Beetles, Whiteflies, Two-Spotted Spider Mites, Plant Bugs, Thrips, and Early stages of Caterpillars	1.0 - 4.0 pt (For Onion: Use 1.0 - 5.0 pt)
<b>Cucurbits:</b> Cantaloupes, Cucumbers, Melons, Squashes and Watermelons	Aphids, Beetles, Whiteflies, Two-Spotted Spider Mites, Plant Bugs, Thrips, and Early stages of Caterpillars	1.0 - 4.0 pt
<b>Root and Tuber Vegetables:</b> Carrots, Potatoes, Radishes, Sweet Potatoes and Turnips	Aphids, Plant Bugs, Potato Leaf hoppers, Two-Spotted Spider Mite and Thrips	1.0 - 4.0 pt
<b>Alfalfa:</b>	Aphids, Leafhoppers, Plant Bugs, Thrips and Early stages of Caterpillars	1.5 - 4.0 pt
<b>Herbs and Spices:</b> Anise, Basil, Dill, Mint, Peppermint, Sage, Thyme, and Wintergreen	Aphids, Leafhoppers, Plant Bugs, Thrips and Early stages of Caterpillars	1.0 - 3.0 pt
<b>Small Fruits and Berries:</b> Blackberries, Blueberries, Cranberries, Raspberries and Strawberries	Aphids, Leafhoppers, Mealybugs, Whiteflies, Lygus Bugs, Thrips, Two- Spotted Spider Mite, Pacific Spider Mite, McDaniel Mite, European Red Mite and Early stages of Leaf rollers and Caterpillars	1.0 - 4.0 pt Note: Raspberries do not exceed 3 pts per acre
<b>Grapes and Hops:</b> Grapes (Raisin, Table and Wine)	Leafhoppers, Sharp shooters, Two- Spotted Spider Mite, Pacific Spider Mite, Willamette Mite, Thrips, Mealy bugs and Early stages of Leaf rollers and Caterpillars	1.0 - 4.0 pt
<b>Stone Fruits and Pome Fruits:</b> Apples, Apricots, Cherries, Peaches, Nectarines, Olives, Pears, Plums, Prunes, Pomegranates and Persimmons	Aphids, Thrips, Leafhoppers, Psylla, Scales, Two-Spotted Spider Mite, Pacific Mite, McDaniel Mite, European Red Mite, Early stages of Leaf rollers and Caterpillars	1.0 - 4.0 pt
<b>Citrus and Sub Tropicals:</b> Avocados, Lemons, Grapefruit, Oranges, Papayas, Bananas, Plantains, Mangos	Aphids, Thrips, Scales, Two-Spotted Spider Mite, Pacific Mite, Citrus Red Mite, Citrus Rust Mite, European Red Mite, Early stages of Leafrollers and Caterpillars	2.0 - 5.0 pt
<b>Nuts:</b> Almonds, Cashews, Pecans, Pistachios and Walnuts	Aphids, Thrips, Two-Spotted Spider Mite, Pacific Mite, McDaniel Mite and European Red Mite	1.0 - 4.0 pt
<b>Field Crops:</b> Corn, Cotton, Sorghum, Soybeans, Sweet Corn and Tobacco	Aphids, Soybean Aphid, Beetles, White- flies, Two-Spotted Spider Mite, Plant Bugs, Thrips, and Early stages of Caterpillars	2.0 - 4.0 pt

**AGRICULTURE APPLICATION RATES:** Spray when pests first appear. Repeat application every 5 to 7 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>Christmas Trees</b> Caution: Certain adjuvants may affect coloration of blue spruce	Mites and Aphids	1.0 - 4.0 pt
<b>Backyard Fruit and Nut Trees</b>	Aphids and Mites	12 - 48 oz. Use sufficient water to get thorough coverage
<b>Mushroom Houses</b>	Mushroom flies (Phorids & Sciarids)	4 - 8 oz per gallon - Spray dilution on outside and inside walls, floors, and side-boards 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 5 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, Collard, 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 KeyPlex Ecotrol® PLUS 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 KeyPlex Ecotrol® PLUS over a 7 to 14 day schedule. Refer to local extension recommendations for additional information regarding pest populations and thresholds. KeyPlex Ecotrol® PLUS 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 Spacing	Linear Feet of Bed to Equal One Acre	KeyPlex Ecotrol® PLUS 2 pints/acre Rate/1000 row feet	KeyPlex Ecotrol® PLUS 4 pints/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	7.4 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, NURSERIES, LATHHOUSES, FORESTRY GREENHOUSES AND NURSERIES.**

Spray when pests first appear. Repeat application every 5 to 7 days.

PEST such as but not limited to:	fl oz per 100 gal
APHIDS: Green Peach aphids, Pea aphids, Cotton aphids, Rose aphids	20 - 40
BEETLES: Flea beetles, Leaf beetles	20 - 48
Early stages of CATERPILLARS: Army worms, Leaf rollers, Loopers, Webworms	16 - 32
FLIES: Fungus gnats, Shore flies	16 - 32
LEAFHOPPERS: Grape leaf hoppers, Potato leaf hoppers	16 - 32
LEAFMINERS: Azaela leaf miners, Citrus leaf miners, Blotch leaf miners, Boxwood leaf miners	16 - 48
MEALYBUGS: Citrus mealy bugs, Long-tailed mealy bugs	16 - 48
MITES: Two-Spotted Spidermite, Broad mite, Citrus budmite, Cyclamen mite, Rust mite	16 - 48
SOFT SCALES (Crawler Stages)	16 - 48
THRIPS: Western flower thrips, Greenhouse thrips	32 - 64
WHITEFLIES: Greenhouse whiteflies, Silver leaf whiteflies	20 - 40

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

Spray when pests first appear. Repeat application every 5 to 7 days.

PEST such as but not limited to:	fl oz per 100 gal
APHIDS: Green Peach aphids, Pea aphids, Cotton aphids, Rose aphids	20 - 40
BEETLES: Flea beetles, Leaf beetles, Mexican bean beetles, Rose chafers	32 - 64
BUGS: Boxelder bugs, Chinch bugs, Lygus bugs, Spittle bugs	16 - 48
Early stages of CATERPILLARS: Armyworms, Cutworms, Fruitworms, Gypsy moths, Hornworms, Leafrollers, Navel orange worms, Pine tip moths, Sod webworms, Tent caterpillars, Tobacco budworms	16 - 32
FLIES: Cherry maggots, Craneflies, Midges	20 - 40
LEAFHOPPERS: Variegated leaf hoppers and Sharpshooters	32 - 64
LEAFMINERS: Azaela leaf miners, Citrus leaf miners, Blotch leaf miners, Boxwood leaf miners	16 - 48
MEALYBUGS: Apple mealybugs, Citrus meal bugs, Grape mealybugs	16 - 48
MITES: Two-Spotted Spider mite, Broad mite, Citrus budmite, Cyclamen mite, Rust mite	16 - 48
PSYLLIDS: Pear psylla	16 - 48
SAWFLIES: European pine sawflies, Pear sawflies, Red-headed pine sawflies, Yellow-headed pine sawflies	16 - 32
Crawler stages of SCALES: Black scales, Brown soft scales, California red scales, Coffee scales, Olive scales, San Jose scales	16 - 48
THRIPS: Citrus thrips, Onion thrips, Western flower thrips	32 - 64
WHITEFLIES: Greenhouse whiteflies, Silverleaf whiteflies, Woolly whiteflies	16 - 32

#### **PROFESSIONAL USE**

- **PROVIDES KNOCKDOWN AND KILL**
- **PROVIDES RESIDUAL REPELLENCY PROTECTION**
- **UNIQUE MODE OF ACTION**
- **MINIMUM RISK PESTICIDE**
- **FOR USE IN AND AROUND SENSITIVE ACCOUNTS**

#### **GENERAL INFORMATION**

Ecotrol Plus is a broad spectrum, contact botanical insecticide/miticide. Ecotrol Plus is effective against adults, larvae and eggs.

SHAKE WELL BEFORE USING. Maintain agitation in all spray systems.

Ecotrol Plus is intended for use in and around buildings and structures as well as modes of transport.

#### **DIRECTIONS FOR USE**

##### **HAND-HELD AND HIGH VOLUME EQUIPMENT**

Spray-to-wet applications of this product may be made with knapsack and backpack sprayers, pump-up pressure sprayers, handguns, hand wands, and other hand-held spray equipment and vehicle mounted high volume spray equipment. For the most efficient use of spray mixture, spray all surfaces uniformly and completely to wetness. Ecotrol Plus may be tank mixed with other pesticide products to enhance performance and manage resistance. 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. When using this product as a space spray in food processing plants, foods should be removed or covered during treatment. Do not apply as a space spray while food processing is underway. Food processing surfaces and equipment must be covered during treatment or cleaned with an effective detergent and rinsed, with potable water before reuse. 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.

**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 Ecotrol Plus 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. Ecotrol Plus 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.

##### **INDOOR USE**

Do not apply directly to house plants. Cover/avoid any pools or aquaria prior to spraying.

**GENERAL PEST CONTROL:** To control accessible, exposed stages of crawling insects including, but not limited to, Ants, Bed Bugs, Cockroaches, Cigarette Beetles, Dark Mealworms, Drugstore Beetles, Confused Floor Beetles, Fleas, Grain Mites, Fowl mites, Mites, Nuisance Beetles (such as Lady Beetles), Red Flour Beetles, Rice Weevils, Saw-toothed Grain Beetles, Spiders, Spider Beetles, Termites, 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 2 to 6 fluid ounces of Ecotrol Plus 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. When treating for bed bugs thoroughly clean, vacuum, and air mattresses and springs prior to treatment. Dilute Ecotrol Plus at a rate of 4 ounces per gallon of water and apply as a spot treatment to cracks and crevices, around baseboards, floorboards, headboards, and walls. In hotels and other public lodging facilities pay special attention to luggage stands and the adjacent area. On mattresses and springs spot treat only areas that may harbor pests. Concentrate on tufts, seams, folds, and creases. Repeat as necessary. To prevent potential discoloring, do not spray on visible areas (i.e. baseboards, door frames, walls, etc.) and wipe away excess. Food processing operations may continue when Ecotrol Plus is applied as a surface, spot or crack and crevice treatment in accordance with the directions and precautions given above.

**FOGGING:** To control crawling and flying insects (Moths and Flies, including House Flies, Mosquitoes, Gnats, Fruit Flies, etc.) in sites that include, but are not limited to, food processing plants, industrial installations, animal quarters (cattle barns, horse barns, poultry barns, swine houses, zoos and warehouses), Ecotrol Plus 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 or remove exposed food and cover food-handling surfaces in edible product areas of food handling establishments. Also cover sensitive surfaces (plastics, etc). Close



and shut off air conditioning or ventilating equipment. Mix 4 to 10 ounces of Ecotrol Plus 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 1000 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, Silverfish, Sowbugs, Spiders, Ticks and Wasps. In compressed air sprayers, dilute 1 to 8 ounces of Ecotrol Plus 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 1000 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 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 ounces of Ecotrol Plus 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 1000 square feet.) Maintain agitation. Repeat as necessary.

**LIVESTOCK USE DIRECTIONS:**

USE: Horses		
INSECT	DILUTION • Ecotrol Plus	
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 ounces per gal of mineral oil USP	Dilute in mineral oil USP as indicated and spray directly on the animal in sufficient amounts for proper coverage.
USE: Poultry		
INSECT	DILUTION • Ecotrol Plus	
Poultry Lice, Bed Bugs, and Mites	2 to 6 ounces per gal of mineral oil USP	Spray roosts, roost poles, walls (especially cracks in walls), and nests or cages thoroughly. 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.

**MOUND DRENCH METHOD - FOR CONTROL OF MOUNDING ANTS:** Dilute 2 to 4 ounces of Ecotrol Plus 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 Ecotrol Plus per gallon of water. Treat harborage areas such as shrubbery and vegetation where mosquitoes/flyies may rest. Shrubby and vegetation around stagnant pools, marshy areas, ponds and shorelines may be treated. Repeat as necessary.

**USE ON TURF AND GRASS:** Used alone as a contact spray. To control Ants, Armyworms, Billbugs, Chinch Bugs, Chiggers, Crickets, Cutworms, Earwigs, Fleas, Grasshoppers, Japanese Beetles (adults), Mole Crickets, Sod Webworms and Ticks, dilute in a compressed air sprayer (or backpack) 2 to 4 ounces of Ecotrol Plus per gallon of water and apply at the rate of 2 to 4 gallons per 1000 square feet or until area is thoroughly wet. For power sprayers mix approximately 2 to 4 ounces per gallon of water and apply until area is sufficiently covered (usually min. 4 gallons per 1000 square feet with power sprayer). Exceeding rates may create potential phytotoxicity of turf surfaces.

**USE ON TREES AND SHRUBS:** To control Mites, Scale Insects, Mealybugs, Aphids, Lace Bugs, Whiteflies, Tent Caterpillars, Bagworms and Beetles, dilute up to 1 to 2 ounces of Ecotrol Plus 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.

<b>USE: Livestock Spray (Beef Cattle, Swine, Goats and Sheep)</b>		
<b>INSECT</b>	<b>DILUTION • EcoEXEMPT® IC3</b>	
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 ounces per gal of mineral oil USP	Dilute in mineral oil USP 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	Same as above.	Apply as above.
<b>USE: Livestock Spray (Lactating Dairy Cattle)</b>		
<b>INSECT</b>	<b>DILUTION • Ecotrol Plus</b>	
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 ounces per gal of mineral oil USP	Dilute in mineral oil USP as indicated. Direct spray to cover thoroughly. Repeat as necessary. No milk discard is required. Care should be taken 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 min. prior to milking or after milking has been complete.
Ticks and Lice	Same as above.	Apply as above.

**PREMISE USE DIRECTIONS FOR LIVESTOCK FACILITIES:**

<b>USE: Residual Surface Spray</b>		
<b>INSECT</b>	<b>DILUTION • Ecotrol Plus in Water or Mineral Oil</b>	
Flies, Gnats, Litter Beetles, Darkling Beetles (lesser meal worms), Mosquitoes, Spiders, Wasps	3 to 6 ounces per gal of water or mineral oil USP	Apply 1 gallon of dilution per 500 - 1000 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.
<b>USE: Larvacide</b>		
<b>INSECT</b>	<b>DILUTION • Ecotrol Plus in Water or Mineral Oil</b>	
Maggots (fly larvae)	4 to 8 ounces 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).