



# 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

# CAUTION

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.

NET CONTENTS:  
1 GALLON

### 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 is not toxic to wildlife and 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.

### 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 also contains specific instructions and exceptions pertaining to statements on this label about personal protective equipment (PPE). The requirements of this box only apply to uses of this product that are covered by the Worker Protection Standard. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation

### NO REENTRY INTERVAL AND NO PREHARVEST INTERVAL.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and involves contact with anything treated such as plants or soils: Long sleeved shirt, long pants, shoes and socks, chemical resistant gloves.

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses. Keep unprotected persons out of treated areas until sprays have dried. 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. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

*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 a 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.

<sup>1</sup>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 15 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.

**KEEP ALL PESTICIDES OUT OF THE REACH OF CHILDREN**

## 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 of 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.

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Formula: KPA-001  
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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, Spearmint, 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, Whiteflies, 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.

<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>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 & Sciariids)	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 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, 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 Ecotrol® EC 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 Ecotrol® EC over a 7 to 14 day schedule. Refer to local extension recommendations for additional information regarding pest populations and thresholds. Ecotrol® EC 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.

<b>Bed Spacing</b>	<b>Linear Feet of Bed to Equal One Acre</b>	<b>Ecotrol® EC 2 pints/acre Rate/1000 row feet</b>	<b>Ecotrol® EC 4 pints/acre Rate/1000 row feet</b>
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