



Mantis EC

BOTANICAL INSECTICIDE/MITICIDE

***A Broad Spectrum Insecticide and Miticide
Enabling Organic Growers to Experience
the Joy of Growing Without Pests.***

ACTIVE INGREDIENTS:.....	% BY WT.
Rosemary Oil	5.00%
Peppermint Oil	5.00%
Soybean Oil	80.00%
OTHER INGREDIENTS*:	10.00%
TOTAL:	100.00%

*Polyglycerol oleate

This product has not been registered by the United States Environmental Protection Agency. Mantis Plant Protection LLC represents that it is exempt from registration under the Federal Insecticide, Fungicide and Rodenticide Act [FIFRA § 25(b)] as a minimum risk pesticide.

DP122016

NET CONTENTS: 32 FL OZ (1 QT / 946 ML)



CAUTION
KEEP OUT OF REACH OF
CHILDREN

Manufactured For:
MANTIS PLANT PROTECTION, LLC
340 W 32nd St. #384 Yuma, AZ 85364
(928) 580-4162
www.MantisPlantProtection.com



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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: May cause an allergic skin reaction. May be harmful if inhaled. Harmful if swallowed. Causes serious eye irritation. Avoid breathing spray mist. May cause irritation of nose and/or throat. Avoid contact with eyes, skin and clothing. Wear protective eyewear and gloves when mixing or handling concentrate. Avoid breathing mist or vapor. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Take off contaminated clothing and wash before reuse. Contaminated work clothing must not be allowed out of the workplace.

ENVIRONMENTAL HAZARDS

Avoid direct contact to water; not for aquatic use. Avoid release to the environment.

FIRST AID	
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	
IF IN EYES	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.
IF ON SKIN	Wash with plenty of water. If skin irritation or rash occurs, get medical attention.
IF SWALLOWED	Rinse mouth. Call a doctor if you feel unwell.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applications and handlers must wear the following: Long-sleeved shirt, long pants, shoes plus socks, protective eyewear, chemical resistant gloves.

DIRECTIONS FOR USE

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

MANTIS EC® is a broad spectrum insecticide/miticide specially formulated with natural occurring botanical oils that kill insects and spider mites on contact by disrupting gas exchange (respiration), cell membrane function and structure.

MANTIS EC® also disrupts the feeding of insects and spider mites on the plant surfaces that are treated.

MANTIS EC® is effective when applied any time throughout the growing season. It is effective against all stages of insect and mite development from nymphal stage to adult.

REENTRY INTERVAL: 0-HOURS

PREHARVEST INTERVAL: 0-DAYS. **MANTIS EC®** may be applied to crops at any time up to and including the day of harvest.

SITES: Amenity/ornamental plant, and plants/crops grown for their reproductive and/or vegetative components used for feed, food, fuel, fiber and medicinal purposes.

PESTS: Spider mites and soft bodied, piercing and sucking insect pests such as: aphids, beetles, caterpillars (early stages), flies (maggot stage), spider mites, mealybugs, scale (crawler stage), thrips and whiteflies.

MIXING: SHAKE WELL BEFORE USING. The use of adjuvants (spreaders and/or penetrants) is highly recommended for improving performance. Fill spray tank $\frac{1}{2}$ full with intended amount of water. Add **MANTIS EC®** at recommended rate, then other products as desired, and continue filling with water. Maintain agitation while mixing and during application for best results. Always clean tank, pump and lines thoroughly with water after use.

APPLICATION: For best results, spray coverage should be uniform and complete. Spray droplet size should be adjusted to maximize coverage, minimize drift, and allow direct contact with as many insects as possible. Use lower rates for light to moderate insect populations and higher rates for heavy infestations. **MANTIS EC®** can be applied to crops at any time up to and including the day of harvest. Begin spraying when insects first appear; do not wait until plants are heavily infested. Repeat as needed (5 day minimum interval) to maintain desired level of control. There are no restrictions on the number of applications per season.

GROUND SPRAY: Spray-to-wet applications of this product may be made with standard field, garden sprayers and backpack or other hand-held spray equipment.

AERIAL SPRAY: Prior to application, check the aircraft/helicopter spray equipment for uniformity of spray pattern, spray width and output. Apply a minimum of 10 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. Formation 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. Application more than 10 feet above the crop canopy is not recommended.

PLANT SAFETY: Rate recommendations are based on product testing on a wide variety of plants. However, not all plant species/varieties/cultivars have been tested with this product, applied alone or with possible spray mix combinations (adjuvants, fertilizers, or other pesticides). Test spray a few leaves with intended spray mix 1 day before spraying entire plant. Do not use if leaf burn or spotting is observed. Use with care on plants with tender tissue. Do not apply to wilted or otherwise stressed plants, or to newly transplanted material prior to root establishment.

- To minimize the risk of plant injury, avoid treating when temperatures are below 40°F or above 90°F or when the relative humidity is above 90 percent.
- Spray in early morning or evening when it is cooler. Do not apply in mid-day sunlight or when grow lights are tuned on as temporary leaf burn may occur.
- Do not mix MANTIS EC® with sulfur or copper-based pesticides and avoid applying 7 days before or after a sulfur or copper treatment.

RATE RECOMMENDATIONS:

CROPS	PINTS per 100 gallons	FL.OZ. per gallon
grown outdoors, in greenhouses, shadehouses and nurseries; including but not limited to		
Root and Tuber Vegetables: Carrot, Potato, Radish, Sweet Potato, Turnip	1-8	1-2
Brassica (Cole), Bulb, Leafy and Oriental Vegetables: Broccoli, Cabbage, Cauliflower, Celery, Garlic, Lettuce, Onion, Spinach	1-8	1-2
Fruiting and Legume Vegetables: Bean, Eggplant, Lentil, Pea, Pepper, Tomato	1-8	1-2
Cucurbit Vegetables: Cantaloupe, Cucumber, Melon, Squash	1-8	1-2
Citrus and Subtropical Fruits: Banana, Grapefruit, Lemon, Mango, Orange, Papaya, Plantain	1-8	1-2
Pome and Stone Fruits: Apple, Apricot, Cherry, Nectarine, Peach, Pear, Persimmon, Plum, Prune	1-8	1-2
Small Fruits and Berries: Blackberry, Blueberry, Cranberry, Grapes (raisin, table, wine), Raspberry, Strawberry	1-8	1-2
Tree Nuts: Almond, Cashew, Pecan, Pistachio, Walnut	1-8	1-2
Cereal Grains: Corn, Sorghum, Soybean, Sweet Corn	1-8	1-2
Grass and Non-Grass Animal Feeds: Alfalfa	1-8	1-2
Herbs and Spices: Anise, Basil, Dill, Mint, Peppermint, Spearmint, Thyme, Wintergreen, Cilantro, Parsley	1-8	1-2
Other Crops: Artichoke, Asparagus, Avocado, Cannabis, Coffee, Cotton, Hops, Jojoba, Mushroom, Okra, Olives, Peanuts, Pineapple, Pomegranate, Rice, Safflower, Sesame, Sugar Cane, Sunflower, Tea, Tobacco	1-8	1-2
ORNAMENTALS - INDOORS (greenhouses, interior plantscapes, lath and shadehouses): Bedding and flowering plants, Foliage plants, Groundcovers, Shrubs, Evergreens, Ornamental trees	1-8	1-2
ORNAMENTALS - OUTDOORS (nurseries and commercial, industrial, recreational and residential outdoor landscapes): Bedding and flowering plants, Foliage plants, Groundcovers, Shrubs, Evergreens, Ornamental trees	1-8	1-2

continued

RATE RECOMMENDATIONS: *continued*

CROPS grown outdoors, in greenhouses, shadehouses and nurseries; including but not limited to	PINTS per 100 gallons	FL.OZ. per gallon
TURF: Golf courses, Cemeteries, Parks, Sports fields, Lawns, Turfgrass grown for sod or seed	1-8	1-2
MUSHROOM HOUSES: Spray a solution of 4–8 fl. oz. per gallon 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.		

STORAGE AND DISPOSAL**Do not contaminate water, food or feed by storage or disposal.**

PESTICIDE STORAGE:	Store in original container in a cool, well-ventilated area away from children, animals, foods, feeds and seeds. Avoid excessive heat and freezing temperatures. Keep container tightly closed during storage.
PRODUCT DISPOSAL:	Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
CONTAINER DISPOSAL:	Triple rinse (or equivalent) during mixing and loading. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state or local ACRC recycler, visit the ACRC web page at www.acrecycle.org . Decontaminated containers may also be disposed of in a sanitary landfill.

WARRANTY

To the extent consistent with applicable law, seller warrants that this product conforms to the chemical description on this label and is reasonably fit for the purposes stated on this label only when used in accordance with directions under normal use conditions. To the extent consistent with applicable law, this warranty does not extend to use of this product contrary to label directions, or under abnormal use conditions, or under conditions not reasonably foreseeable to seller. To the extent consistent with applicable law, seller makes no other warranties, either expressed or implied.

MANTIS EC BOTANICAL INSECTICIDE / MITICIDE® is a trademark of Mantis Plant Protection, LLC.



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