



## BROAD SPECTRUM FUNGICIDE, MITICIDE AND INSECTICIDE FOR AGRICULTURAL, ORNAMENTAL AND FOREST CROPS.

Active Ingredients: Cinnamon Oil.....	24.00%
Other Ingredients: Ethyl Lactate, Glyceryl Monooleate.....	76.00%
Total:.....	100.00%

CINNERATE® is an innovative formulation with high Cinnamaldehyde content, providing a knock-down and eradicate effect towards several species of mites, insects, fungus and bacteria.

CINNERATE® disrupts the functioning of cell membranes, as well as inhibits growth and promotes dehydration.

### KEEP OUT OF REACH OF CHILDREN CAUTION

#### FIRST AID

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

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency information, call the National Pesticides Information Center at 1-800- 858-7378, 7:30 AM to 3:30 PM, Pacific time (PT), Mon. - Fri. During other times, call the Poison Control Center at 1-800-222-1222.

#### PRECAUTIONARY STATEMENTS

##### Hazards to Humans and Domestic Animals

**Caution.** Causes moderate eye irritation. Prolonged or frequent contact may cause allergic reactions in some individuals. Avoid contact with eyes, skin and clothing. Wear protective eyewear and gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

##### Applicators and handlers must wear:

- Long-sleeved shirt and long pants
- Socks and shoes
- Protective eyewear
- Chemical resistant gloves made of neoprene, nitrile or natural rubber

#### USER SAFETY RECOMMENDATIONS

Users should remove clothing/PPE immediately if the product gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of the gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

The application of CINNERATE® does not modify odor or taste of commodities. Crops can be consumed without a security period of time after application.

This product has not been registered by the U.S. Environmental Protection Agency (EPA), this product qualifies for 25(b) exemption from registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

#### DIRECTIONS FOR USE

CINNERATE® is a contact fungicide, miticide, and insecticide, therefore direct contact with the target organism is required for control.

CINNERATE® must be applied using a sufficient volume of water to insure complete crop coverage. Not for aquatic 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 pathogens (insects, mites, fungi) as possible. Use lower rates for light to moderate pest pressure and higher rates for heavy infestations.

CINNERATE® can be applied to crops at any time up to and including the day of harvest. **Begin spraying when pest 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.

**Always follow these directions:** Apply in early morning or late afternoon/evening. Spray directly onto pest(s) or pathogen(s). Apply before noticeable foliar pest damage occurs. Thorough spray coverage is essential for good pest control.

#### MIXING INSTRUCTIONS

Shake well before using. The use of adjuvants (spreaders and/or penetrants) is highly recommended for improving performance. Fill spray tank ½ full with intended amount of water (>45°F). Add CINNERATE® at recommended rate, then other products as desired, and continue filling with water. In areas with hard water (>200ppm), addition of a water softener is recommended before adding this product to the spray tank. Maintain agitation while mixing and during application for best results. Always clean tank, pump and lines thoroughly with water after use. **DO NOT MIX CINNERATE® WITH Captan, Bordeaux mixtures, oxidizing agents such as bleach, or highly alkaline or acid products. Mix CINNERATE® with only those chemicals that are registered for use on specific crop to be treated.**

#### GROUND SPRAY

Spray-to-wet applications of this product may be made with standard field 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. Application more than 10 feet above the crop canopy is not recommended.

#### DRIP IRRIGATION

For soil inhabiting insects and insect stages, use 2-4 pints per acre of plant bed in 2-3 applications over a 7-14-day schedule. Set emitter spacing and line pressure to give best coverage and reduce leaching.

#### NET CONTENTS:



2.5 Gallons



265 Gallons



1 Gallon

SYM

FRAC

Group BM03

IRAC

UNE®

O Hour REI  
O PHI

MRL  
Exempt

## PLANT SAFETY AND COMPATIBILITY

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). We recommend testing all tank mix combinations for physical compatibility and plant safety. 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. Do not apply when the temperature is >90° F. Consult your dealer or distributor for specific recommendations. This product cannot be mixed with any product containing a label prohibition against such mixing. Do not exceed label dosage rate.

## TARGETED PESTS

**Mites:** including but not limited to: Two Spotted Spider Mite, European Red Mite, Pear Leaf Blister Mite, Pear Rust Mite, etc.

**Insects:** including but not limited to, Scales (such as San Jose Scale, California Red Scale, Yellow Scale, Black Scale, Soft Scale, etc.), Aphids (such as Cotton Aphid, Green Peach Aphid, among others). Thrips (such as Thrips spp., Frankliniella spp., Heliothrips spp., Scirtothrips citri among others.) Psyllids (such as Bactericera spp., ACP Diaphorina citri, Cacopsylla spp.) Leafhoppers (such as Empoasca spp., Macrosteles spp., and Graphocephala spp.) White Flies (such as Dialeurodes spp., Trialeurodes spp., Bemisia spp.) Flies, Fruit Flies, Spotted Wing Drosophila (such as Walnut Husk Fly, Fungus Gnats) Armyworms, Caterpillars and Loopers (such as Cabbage Looper, Tent Caterpillar, Fruit Worms, Alfalfa Caterpillar, Caterpillar Larvae, among others). Moths (such as Codling Moth, Grape Berry Moth. Other pests such as Borers (Peach Twig Borer, Hypothenemus hampei), Mealybugs (Planococcus spp., Pseudococcus spp., Dysmicoccus brevipes) and Apple Maggots, Lygus Bugs, Blueberry Maggot, Leafrollers).

**Diseases:** Alternaria leaf spot (*Alternaria* spp.), Anthracnose (*Elsinoe ampelina*), Bacterial Leaf Blight, Black leg/bacterial soft rot/Aerial Stem Rot (*Erwinia carotovora*), Black Mold (*Aspergillus niger*), Blue Mold (*Penicillium* spp.), Brown Rot (*Monilia* spp.), Bulls Eye Rot (*Neofabraea* spp), Downy Mildew, Early Blight (*Alternaria* spp.), Fire blight (*Erwinia amylovora*), Fusarium (*Fusarium oxysporum*), Gray Mold (*Botrytis* spp.), Green mold (*Penicillium digitatum*), Late Blight (*Phytophthora infestans*), Mucor Fruit Rot (*Mucor* spp.), Phomopsis Soft Rot (*Phomopsis* spp.), Powdery Mildew (*Rhizoctonia* spp.), Rhizopus Fruit Rot (*Rhizopus* spp.), Rust (*Puccinia* spp.), Coffee Leaf Rust, Scab (*Venturia* spp.), Shot Hole (*Xanthomonas arboricola*), Stem End Rot (*Gnomonia comari*), Sour Rot (*Geotrichum*), Verticillium, White Mold (*Sclerotinia*), Algae and Moss.

**Nematodes:** Soil and Foliar

## APPLICATION RATE TABLE

For the control of the different pests, use **CINNERATE®** as indicated in the following table for each crop. Use the higher rate when disease pressure is high, or a severe infection has occurred.

**Note to User:** Unintentional consequences such as crop injury may result due to environmental or growing conditions, manner of use or application. Because plant tolerance of pesticides varies as conditions vary, treat a few plants under conditions unexpected to be encountered, and observe for plant damage prior to full-scale application to large number of plants.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and 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 must be disposed of on site or at an approved waste disposal facility.

**Container Handling:** 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](http://www.acrecycle.org). Decontaminated containers may also be disposed of in a sanitary landfill.

CROPS Grown outdoors, in greenhouses, shadehouses and nurseries; including but not limited to:	RATES (fl oz./100 gallons)	GALLONS PER ACRE	
<b>Vegetables:</b> Asparagus, Bean, Beet, Broccoli, Brussels Sprouts, Cabbage, Carrot, Cauliflower, Celery, Cucumber, Eggplant, Endive, Garlic, Leek, Lettuce, Melon, Okra, Onion, Pepper, Potato, Pumpkin, Radicchio, Shallots, Spinach, Squash, Swiss Chard, Tomato	16-64	10-20 25-100 100-160 160-210	Low volume applications < 20 inches 20-50 inches > 50 inches
<b>Fruits and Nut Trees:</b> Almonds, Apricots, Apples, Cherries, Citrus, Hazelnuts, Nectarines, Olives, Peaches, Pears, Pecans, Pistachios, Plums, Prunes, Walnuts	16-64 25-45 32-64	20-500 100-1000 100-300	Scale Pear Psylla, Pear Leaf Blister Mite and Pear Rust Mite
<b>Small Fruits and Berries:</b> Blackberries, Blueberries, Bushberries, Caneberries, Coffee, Cranberries, Currants, Guava, Raspberries, Strawberries	16-64	30-300	
<b>Grapes</b>	16-45 32-64	15-300 50-200	Mealybugs
<b>Field Crops:</b> Cereal Grain, Cotton, Dry Beans, Field Corn, Grasses grown for seed, Hops, Lentils, Sugar Beets, Sweet Corn, Tobacco	16-64	10-210 >10-15	Aerial application
<b>Tropical and Other Fruits:</b> Avocados, Bananas, Dates, Figs, Kiwi, Mangoes, Papayas, Pomegranates, Pineapples	16-64	50-200	
<b>Herbs and Pasture:</b> Alfalfa, Basil, Cannabis, Chives, Cilantro, Dill, Hay Crops, Hemp, Grass Seed, Mint, Oregano, Parsley, Pasture, Thyme	16-64	10-100	
<b>Ornamentals:</b> Golf Courses, Hard Surfaces, Landscape Areas, Lawn, Ornamental Flowers, Shrubs, Trees, Turf	16-50	50-210	
<b>Forest:</b> Pine Trees	16-64	85-125	

## WARRANTY AND CONDITIONS OF SALE

SELLER OFFERS AND THE BUYER ACCEPTS THIS PRODUCT UNDER THE FOLLOWING AGREED TERMS AND CONDITIONS OF SALE AND WARRANTY.

The directions for the use of this product are believed to be reliable and should be followed carefully. However, it is impossible to take into account all the variables and to eliminate risks associated with its use. Injury or damage may result because of conditions that are beyond the control of the SELLER.

SELLER warrants that this product conforms to the chemical description on this label and is believed to be reasonably fit for the purposes stated on this label, when used in accordance with the directions on this label under conditions of normal use.

SELLER MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

To the fullest extent permitted by law, the SELLER shall not be liable for consequential, special or indirect damages resulting from the use or handling of the product. Any variation or exemption from this warranty must be in writing and signed by authorized representative or the seller.

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