

CINNERATE

Fungicide Miticide

Fast Effective Knockdown Control / Curative and Preventative Activity

Cinnerate is a fast acting knock down miticide, fungicide that goes to work immediately to stop disease, immobilize and kill mites, and other insects. The active ingredient is based on cinnamon aldehyde, emulsified with potassium oleate. The innovative formulation provides high levels of control with low applications rates, a high degree of crop safety, and has little to no effect on beneficial predator populations.

Pest Control

Insects: Mites, Scale, Mealy Bug

Disease: Powdery Mildew, Botrytis, Rust

Broad Crop Uses

Cinnerate is registered on most crops; please check the label for a full listing.

Key Advantages

- Immediate knock down of disease and pests
- Dual action for disease and mites
- Superior control of adult scale
- Preventative & curative disease action
- Safe on beneficial predators
- Flexible application – can be use up to and during harvest
- Multiple modes of action / Resistance management
- Synergist tank mix partner fungicides / miticides

Mode of Action Disease

Curative / Eradicant: affects the mitochondrial oxidative process, disrupting enzymatic activity of the pathogen cell membrane, causing rapid dehydration and disappearance of symptoms

Preventative: Inhibits mycelial growth and prevent germination of fruiting bodies, disrupting the disease life cycle and preventing its spread

Mode of Action – Mites & Insects

Fast Acting: Cinnerate causes immediate insect death by asphyxiation, through sealing the spiracles. Disrupting the nervous system, and interfering with the glucose uptake and utilization. Resulting in effective control of all mite life stages including eggs

Useful Information

Application Rates: 13-35 ounce per 100 gallons depending on the crop and target pest.

Concentration Based Use Rates: Use rates are based on spray solution concentration (ounces/100 gallons), use rate per acre are determined by spray solution needed for sufficient coverage.

Contact Pesticide: Cinnerate is a contact pesticide requiring direct contact with the target pest. good spray coverage is essential. Typically 85-125 gallons of spray per acre are required for thorough coverage.

Spray Timing: The best timing for application is during calm conditions during the early or late part of the day, when pest are most active. Avoid applications when temperature exceed 85 degrees.

Tank Mixes: Cinnerate can be safely tank mixed with most pesticides.

Sulfur Compatible: Cinnerate has no restrictions before or after applications the use of sulfur.

Excellent Crop Safety: Cinnerate's innovative formulation slows the oxidation rate and reduces the potential for phytotoxicity.

Cinnamon Odor: There will be a cinnamon odor following an application, however it will not permeate the crop tissue and does not affect the quality, odor, or flavor.

Zero Residue: Cinnerate is based on food grade oils so there are no crop residue concerns or re-entry restrictions on the product.

- 4-hour REI
- o-Day PHI
- No Visible Residue
- Resistance Management
- Exempt from food tolerance – No MRLs
- NOP Organic / OMRI listed



Ask your Ag retailer about Cinnerate or contact:

Sym-Agro 541-607-5097 / info@Sym-Agro.com

Cinnerate has a Low Impact on Beneficials

bumble bee - *Bombus* sp. (abejorros)

predatory mite - *Amblyseius californicus*

predatory mite - *Amblyseius cucumeris*

predatory mite - *Amblyseius swirskii*

predatory midge - *Aphidoletes*

aphidimyza / *feltiella acarisuga*

hoverfly - *Episyrphus balteatus* (sírfidos)

parasitic wasp - *Encarsia formosa*

parasitic wasp - *Aphidius* spp.

green lacewing - *Chrysoperla carnea*

lady bug - *Coccinellidae* (mariquitas)

leafminer parasite - *Dacnusa sibirica* /

Diglyphus isaea

whitefly parasite - *Eretmocerus* spp.

minute Pirate Bugs - *Orius* spp.

predatory mite - *Phytoseiulus persimilis*

predatory mite - *Typhlodromus pyri* (viñedo y frutales)

predatory mirid bug - *Macrolophus caliginosus* / *Nesidiocoris tenuis*

Trial Results—Mites, Powdery Mildew, Scale

