

PROTEK SUPER

(NATURAL FUNGICIDE AND INSECTICIDE)

INTRODUCTION:

ProtekSuper is a revolutionary cinnamon oil-based bioproduct that serves as a versatile solution against a myriad of threats. With its multifaceted approach, ProtekSuper acts as both a fungicide and an insecticide, offering comprehensive control over a wide range of pathogens and pests that jeopardize crop health and yield.

COMPOSITION:

Component	Content (% w/v)
Cinnamon Oil	: 10.00
Adjuvants	: 90.00

MODE OF ACTION:

1. Antifungal Action:

Cell Membrane Disruption: The active compounds in cinnamon oil disrupt the cell membranes of fungal pathogens, leading to leakage of cellular contents and eventual cell death.

Inhibition of Spore Germination: ProtekSuper inhibits the germination of fungal spores, preventing the establishment and spread of fungal infections on crops.

Enzyme Inhibition: The product interferes with fungal enzymatic processes essential for growth and reproduction, further curbing fungal proliferation.

2. Insecticidal Action:

Neurotoxicity: The bioactive components of cinnamon oil act on the nervous systems of insects, causing paralysis and death.

Repellency: ProtekSuper has strong repellent properties, deterring insects from approaching and infesting crops.

Inhibition of Feeding and Reproduction: The formulation disrupts the feeding behavior and reproductive cycles of pests, reducing their population and impact on crops.

APPLICATION RATES:

Crop	Doses	Dilution in water (liters)	Diseases Controlled
Indoors crops: such as greenhouse, nurseries ornamentals, garden plants, fruits and vegetables	2000-2500 ml/hectare	450-500 ltrs	Botrytis, Late Blight, Phytophthora, Powdery Mildew, Downy Mildew. Sucking insects like Thrips, Aphids, Psyllids, Scale, Whitefly and Mites.
Outdoor crops: Such as nurseries, fruits, vegetables, tree nuts, tree fruits, citrus, grape, hops.	2000-2500 ml/hectare	500 ltrs	

BENEFITS:

Dual Action: Acts as both a fungicide and an insecticide, providing comprehensive control over a wide range of pathogens and pests.

Natural and Safe: Formulated from natural cinnamon oil, making it an eco-friendly and biodegradable option.

Non-Toxic: Safe for use around humans, animals, and beneficial insects like bees and butterflies when used as directed.

Boosts Immunity: Enhances the plant's natural defense mechanisms, making them more resilient to infections and infestations.

Healthier Plants: By protecting crops from pathogens and pests, ProtekSuper ensures better nutrient absorption and overall plant health.

Higher Yields: Healthier plants lead to increased productivity and higher yields, enhancing profitability for farmers.

METHOD OF APPLICATION:

Apply in recommended amount of water to thoroughly cover foliage infested with pathogen, 450-500 liters of water/ha. Water volume depends on spray equipment, crop canopy and target pest. Spray to wet, but avoid runoff. Apply up to a maximum of 2500 ml of product per hectare for extreme pathogen pressure or dense foliage.

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