

# VERTICEL™

*Verticillium lecanii*



Verticel™ is a biological insecticide manufactured from *Verticillium lecanii*, naturally occurring entomopathogenic fungus.

Verticel™ is effective against all soft bodied sucking insect pests like **aphids, thrips, mealy bugs, whitefly, scale insects** and all types of **mites**.

#### Method of Action

The spores of *Verticillium lecanii* gets attached to the cuticle of the insects on contact. The fungus gains entry through the cuticle by enzymes. It infects insects by producing hyphae from germinating spores that penetrate the insect integument. The fungus then destroys the internal body contents resulting in the mortality of insects. The fungus eventually grows through the insect cuticle and sporulates on the body of the insects to produce cyclosporine toxin called **Bassianolide**, which kills the insect in 4-6 days. Larvae and pupae die before the fungus is visible. Dead larvae and pupae are light to dark yellow, wrinkled and no longer shiny. Under favorable conditions white fungal fluffy mycelium appears on the infected insects. The organism grow best at 20-30°C and at a relative humidity above 65%.

#### CROPS

- Fruit crops** : GRAPES, GUAVA, SAPOTA, CITRUS, MANGO, POMEGRANATE, CUSTARD APPLE, BANANA, APPLE, COCONUT ETC.
- Field crops** : COTTON, PADDY, SORGHUM, SUNFLOWER, GROUNDNUT, POTATO MUSTARD, CUMIN ETC.
- Vegetables crops** : TOMATO, CHILLY, BRINJAL, ONION, LADY'S FINGER ETC.
- Plantation crops** : CARDAMOM, TEA, COFFEE, FLORICULTURE, HOME GARDENING, MEDICINAL PLANTS ETC.



EXCEL INDUSTRIES LTD.

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#### Method of Application

Mix the required amount of **Verticel™** with water and stir well to form a uniform suspension. Spray immediately after preparation. Spraying should be done during late afternoon or early morning. Thorough coverage of both sides of leaf surfaces is a must to get excellent results. For speedy kill, higher dosage may be applied. Use natural wetting agent for better results.

#### Compatibility

**Verticel™** is compatible with most bio-pesticides and conventional insecticides. It should not be mixed with any chemical fungicides. Avoid chemical fungicides spray 3-5 days before or after the use of **Verticel™**.

#### Dosage

2.5-5gm per liter or 500-750 gm in 200-300 liters of water per acre spray.

#### Storage

Keep in dry and cool place. Do not expose to direct sunlight or heat.

#### Packing

**Verticel™** is available in 1kg and 250 gms E-Fluted Carton pack and 1ltr and 250ml Bottle pack to ensure better product quality and shelf life.

#### Shelf life

One year from the date of manufacture.



IIM CONTROL PRIVATE LIMITED  
Manufactured by



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Indian Society For Certification  
of organic products

Marketed by



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