

ANC ENZYME SOLUTIONS PTE LTD

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Pes-Catch

(*Verticillium lecanii* 1.15% WP)

Pes-Catch is a talc based product containing spores and mycelial fragments (@ 1×10^8 CFU's/gm) of a naturally occurring entomopathogenic fungus *Verticillium lecanii*.

Mode of action

The spores of this fungus when come in contact with the cuticle (skin) of target insects, they germinate and grow directly through the cuticle to the inner body of their host. The fungus proliferates throughout the insect's body, draining the insect of nutrients, and eventually killing it in around a week time.

The spores of *Verticillium lecanii* infect with contact and do not need to be consumed by their host to cause infection.

Crops	Target Pests	Application Methods	Frequency of Application
Ornamentals and Vegetables in greenhouses; nurseries, lawns; landscape perimeters. Vegetable in field crops and other agricultural crops	Whiteflies, Thrips, Aphids, Mealy bugs	<u>Spray Method</u> The product should be sprayed on foliage of plants using hands, ground, or aerial spray equipment. It is advisable to provide a good coverage on the undersides of the leaves. A good spraying technique is required; a sufficient amount of water and a sufficiently high pressure are also crucial.	Applications should be repeated at least one 15-20 days for four time. If insect pressure is high, the label recommends continued weekly applications. For greenhouse pest problems, applications in every 10-15 days are recommended. Again, the number of applications should be decided based on pest population level

Dosage

Foliar spray : 2.5 kg/hectare in 500 liters of water i.e. 5 gm per liter of water. The spray volume depends on the crop canopy.

Drip systems : 5 gm / liter of water. The resultant solution should be filtered before injecting into the drip system.

Preparation of spray solution

Suspend 2.5 kg of Pes-Catch in 500 liters of water. Stir well and applied through low pressure watering nozzles such as fan nozzles or other watering systems after filtering with filters.

Compatibility

Fungicides may affect spores and mycelial fragments in Pes-Catch. Therefore, it must be used with great care. It is recommended to wait minimum 7-10 days between a Pes-Catch application and a fungicide treatment. Do not make tank mix of Pes-Catch with fungicides.

Toxicology

- Acute oral toxicity in Rat and Non-Virulent : Non Toxic
- Acute oral toxicity in mice and Non-Virulent : Non Toxic
- Acute dermal toxicity in Rabbit : Non Toxic and Non-Virulent
- Primary skin irritation in Rabbit : Non-irritant
- Irritant to mucous membrane in Rabbit : Non-irritant
- Acute Intraperitoneal toxicity in Rat : Non Toxic and Non-Virulent
- Acute pulmonary toxicity in Rat : Non Toxic and Non-Virulent
- Eco-toxicity
- Acute oral toxicity in chicken : Non-toxic and Non-Virulent
- Acute oral toxicity in Rat : Non-toxic and Non-Virulent
- Acute toxicity to fresh water fish : > 100mg/l
- Toxicity to Earthworm : Non toxic
- Toxicity to Silkworm : Non toxic
- Toxicity to Honeybee : Non toxic
- Natural enemies of cotton pest : Non toxic

Benefits

- Ecofriendly and maintain the ecological balance
- Does not create resistance, resurgence and residues problem.
- Does not affect the natural enemies and offers a long lasting pest control
- Certified by IMO and EROPGAP for use in organic agriculture
- Forms a good molecule for use in IPM programme.

Salient feature

Certified by IMO for use in organic farming
Registered with Central Insecticide Board of India

Shelf Life

Eight months if stored at 20-25°C and if unopened

Packing

5Kg, 1Kg, 250gms, 200gms, 100gms.