

ANC ENZYME SOLUTIONS PTE LTD

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Bio-Nematicide

(*Paecilomyces lilacinus* 1.15% WP)

Bio-Nematicide is a talc based biological nematicide and contains mycelial fragments (@ 1×10^8 CFU's/gm) of a naturally occurring entomopathogenic fungus. *Paecilomyces lilacinus* – a common saprophyte with a cosmopolitan distribution.

Mode of action

The spore of this fungus acts by infecting, parasitizing and killing eggs, juvenile and young adults of most nematode species.

When comes in contact with different stages of nematodes they germinate and grow and proliferate throughout the nematode eventually paralyses the nematode and killing it.

Nematodes controlled & Crops benefited

Crops	Target Pests	Application Methods	Frequency of application
Vegetables (Cole crop), fruits and berries, herbs and spices, peanut, ornamentals, turf, forestry and orchard crops (banana). Tuber crops (Potato carrot).	Root knot Nematode (<i>Meloidogyne</i> spp.), Cyst Nematode (<i>Heterodera</i> spp.), Burrowing Nematode (<i>Radopholus similis</i>)	It can be applied as a suspension in water either as a preplant treatment, or preferably at planting and emergence stage, or immediately after transplanting. It can be sprinkled around the root-zone and incorporated into the soil either mechanically or through watering the plants. Bio-Nematicide can also be made through drip irrigation system after filtering with filters.	The frequency of applications also depends on the Nematode populations. In the case of high nematode population pressures, and in perennial crops, multiple applications are recommended. Applications during early stages of plant growth protect the plant at critical stages of development, translating into better performance and yield.

Dosage

Soil application : 3.0 kg/ hectare

Drip Irrigation system : 5 gm / litre of water

Preparation of spray solution

Suspend 3.0 kg of Bio-Nematicide in 500 liters of water. Stir well and apply through irrigation system after filtering with filters.

Compatibility with pesticides

Fungicides may affect Bio-Nematicide therefore; it must be used with great care. It is recommended to wait minimum 15 days between a Bio-Nematicide application and a fungicide treatment. Do not make tank mixes of Bio-Nematicide with fungicides.

Toxicology

- Acute oral in Rats and Non-Virulent : Non Toxic
- Acute oral in Mice and Non-Virulent : Non Toxic
- Acute Pulmonary toxicity Rat and Non-Virulent : Non Toxic
- Acute dermal toxicity Rabbit and Non-Virulent : Non Toxic
- Acute intraperitoneal : Non Toxic and Non-Virulent
- Acute oral toxicity study (chicken) : Non Toxic.
LD₅₀ > 5000mg/kg/B.wt

- Acute oral toxicity study (pigeon) : Non Toxic.
LD₅₀>5000mg/kg/B.wt
- Primary skin irritation : Non-irritant
- Irritation to mucous membrane : Non-irritant
- Acute toxicity to fresh water fish : >200 mg/l
- Toxicity to Algae : Does not cause any effect on the growth of algae

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 EUREPGAP for use in organic agriculture
- Forms a good molecule for use in IPM programme.

Salient feature

IMO certified for organic farming

Shelf Life

Eight months if stored at 20°C – 25°C and if unopened.

Packing

1Kg, 500gms, 250gms.