

BIOSAR

Verticillium lecanii

Biosar is a unique formulation contains dormant spores of *Verticillium lecanii* with inert carrier. It contains microbes which are useful for controlling various insect-pest found in the field. *Verticillium lecanii* is an entomopathogenic fungus. The mycelium of this fungus produces a cyclodepsipeptide toxin called bassianolide and other insecticidal toxins such as dipicolinic acid, which infect Mealy bug, Aphids, Whiteflies, Mites, scale insects and lead to death the host

Compositio:

1) Powder Formulation: *Verticillium lecanii*- 1.15 % W.P.

<i>Verticillium lecanii</i>	:	1.15% w/w
(Spores & Nutrient Medium residues)		
Spore Count	:	2×10^8 per gm min.
Carrier(talc)	:	90.85% w/w
Moisture (Max.)	:	8.00% w/w
Total	:	100% w/w

2) Liquid Formulation: *Verticillium lecanii*- 10 % AS

<i>Verticillium lecanii</i>	:	10 % (V/V)
(Spores & nutrient medium residue)		
C F U	:	2×10^9 per ml min.
Carrier (water)	:	QS to make 100%

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 48-72 hours.

Crop:

Ornamentals and vegetables in greenhouses; nurseries, lawns; landscape perimeters. Vegetable in field crops, Grapes, Pomegranate, Custard apple, Cotton and other agricultural crops.

Insects control:

Whiteflies, Thrips, Aphids, Mites and Mealy bugs.

Application methods:

The product should be sprayed on foliage of plants using hand, ground, or aerial spray equipment. It is advisable to provide a good coverage on the undersides of the leaves.

Frequency of application:

Applications should be repeated at least once in 15-20 days for four times. For greenhouse pest problems, applications in every 10-15 days are recommended. All applications should be based on monitoring of pest populations.

Product benefits:

- Able to control various insect by causing mycosis
- Saprophytic growth lead to serve on dead organic matter so even in absent of host, inoculums get increase in field so more chances for mycosis as insect attack start
- it help to increases the crop yield by reducing damage cause by insect
- help to increases natural soil biomass so by these help to improve soil health
- improve plant vigor, plant health etc.
- help to maintain natural ecosystem in field
- compatible with most of insecticide, so combine use with insecticide give synergistic result

Spray Application:

Dilute 5gm or 5 ml of Biosar in 1ltr of water with 5ml milk. Stir well to form uniform solution and spray thoroughly with a sprayer. Effective coverage of whole plant will more benefit. Drip system: 5 gm / litre of water. The resultant solution should be filtered before injecting into the drip system.


Packing available

Powder form- 1 kg

Liquid form – 1 lit, 5 lit, 20 lit.

Self life

Powder/ Liquid - 1 year



RBH

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