



# GRUB-OFF

IDEAL SOLUTION FOR WHITE GRUBS



## CONTACT:

### GRUB OFF

-USAGE OF PRODUCT TO BE DONE  
INSTRUCTED METHOD OF  
APPLICATION

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## ABOUT

Grub-off is an ideal solution for the management of white grubs in various crops like areca nut, sugarcane, banana, cardamom, potato, groundnut etc.

Grub off contains active entities called Entomopathogenic Nematodes called *Heterorhabditis indica*. These beneficial nematodes are naturally occurring, earth friendly, microscopic worms.

## What are beneficial nematodes?

Beneficial nematodes are naturally occurring, earth friendly, microscopic worms. They enter the grubs and kill them in 48-96 hours. The cadavers are utilized as food by nematodes for their multiplication.

## Mode of action

Grub-off contains active entities called Entomopathogenic Nematodes called *Heterorhabditis indica*. All biological control nematodes have an infective stage (called third-stage juvenile) that will enter into the insect host. The nematodes usually enter the insect through its breathing holes, mouth, or anus, they are capable of penetrating thin areas of the insect's cuticle. After they enter the insect's body the nematodes release special bacteria into the insect. These bacteria are only found associated with the biological control nematodes. The toxins produced by the bacteria and nematodes together kill the insect in 48-96 hours depending on the life stage and species. The bacteria multiply inside the body of the insect and the nematodes feed the bacteria. The nematodes mature, mate, and multiply inside the insect. Eventually, the insect's body becomes filled with nematodes. Infective stage nematodes then exit the insect body in search of other insects to infect

## Composition



Active ingredient- *Heterorhabditis indica*.  
 Concentration- 60000 infective juveniles/g  
 Category- Biocontrol agent-wettable powder

## Benefits



Quick and effective control of root grubs.

- ☒ Broad host range and highly virulent with high reproductive rates
- ☒ Safety: Entomopathogenic nematodes are exceptionally safe biological control agents. They are specific to insects and are not a threat to the environment unlike chemical insecticide.
- ☒ Farmer friendly: Easy to apply with conventional equipments.
- ☒ Tolerance to chemicals: The infective juveniles are tolerant to most agrochemicals including herbicides, fungicides and insecticides
- ☒ Dose not affect natural enemies and offers a long lasting pest control.
- ☒ Helps to increase productivity by controlling pests

## Dossage and Method of application



Drenching: 100g grub off along with 5 ml of bugout or any insecticide in 15 ltr of water. Use 500ltr of water per acre.

☒ Dose- 6-8 kg per acre.

☒ Mix the formulation of grub off with 80-100 kg saw dust/coir pith or sand for ease of application/spread in the field before the incidence to avoid throughout the crop.

Broadcasting/spot application at root zone or in the root basin around the trunk of areca nut, palms etc., preferably during pre-monsoon showers.

## Main tool for spot application after infestation



Cowbar is to be used if the infestation is high already. 2 holes per tree or plant near the root region where the grubs are seen to be made upto 1 feet and then apply 150- 200 ml of prepared solution per hole to be applied.