

BENEFITS OF VURUGA BIOCID

- ✓ It is very effect in controlling pest +80-100% efficacy
- ✓ It is an ecofriendly biopesticide that interact with social insects such ants, bees (pollinator)
- ✓ Does not harm natural enemies of pests eg. parasitoid and predatory beetles and safe for human
- ✓ It aid in mineral mobilization and uptake-act as biofertilizer
- ✓ It is affordable by smallholder farmers
- ✓ No resistance because the active ingredient is live microbe(fungal spore)
- ✓ Triple action; biopesticide, biofertilizer, pollinator attractant

SAFETY PRECAUTION

If you contact or swallow Vuruga Biocide accidentally, wash with clean water

PUBLICATIONS RELATED TO VURUGA BIOCID

Zekeya, N., Mtambo, M., Ramasamy, S., Chacha, M., Ndakidemi, P. A., & Mbega, E. R. (2019). First record of an entomopathogenic fungus of tomato leafminer, *Tuta absoluta* (Meyrick) in Tanzania. *Biocontrol Science and Technology*, 29(7), 626-637

Zekeya N., Ndossi H., Mbega E. (2022). Prospects of Biological Control Agents for Management of Invasive Pest *Tuta absoluta* (Lepidoptera: Gelechiidae) in Africa. *Journal of Animal Science*, 7(1): 1-11

| VURUGA BIOCID-DETAILED INFORMATION | | | | | | | |
|------------------------------------|---------------------------|------------|-------------|--------|---------------------------|---|------------|
| Package volume | Ratio Vuruga/Water (mL/L) | Pumps(20L) | Farm (acre) | Repeat | Spray/nozzle size | Target pests | Price(Tsh) |
| mL 120 | 2/1L | 3 | 1 | | Small size for pesticides | Aphids, mealY bugs, Fall armyworm, bollworm, cotton moth and <i>Tuta absoluta</i> | 5,000/= |
| mL 250 | 2/1L | 6 | 1.25-2 | 3-4 | | | 9,000/= |
| mL 500 | 2/1L | 12.5 | 2.5 | 3-4 | | | 15,000/= |
| mL 1000/L | 2/1L | 25 | 5.0 | 3-4 | | | 30,000/= |

Suppliers Contacts:

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VURUGA BIOCID

REG NO. BCA/IN/0005

for Control of wide range of Moths (Tomato leafminer and Fall armyworm) and sucking pests



BACKGROUND INFORMATION

Vuruga Biocide is an organic pesticide formulated by using a fungus as active ingredient and vegetable oil as a carrier. It is effective for controlling a wide range of pests including; Fall armyworm, Aphids, mealybug, Fruit fly, Tuta absoluta, Bollworm and cotton moth. The active ingredient (fungal spore) act by penetrating insect body through hydrophobic interaction of spores and insect cuticle. Hence oily formulation enhances biopesticide activity, attachment and specificity on insect pests. It reduces pest population through physical attack into appendages and paralysis of appendages, antifeedant and deliberately cause pathogenesis and death of the pest.

VURUGA BIOCID
It is effective for
Chewing and
Sucking pests

(*Tuta absoluta*)



Fall Armyworm.



Other Plant Pests



HOW TO APPLY VURUGA BIOCID ON CROPS:

- Shake well the bottle before opening the lid
- Take Vuruga Biocide mix with water in the ratio of 2mL of Vuruga with 1L of water
- Make sure the sprayer pump is half filled with clean water, then put the desired amount of Vuruga Biocide, fill the remaining amount of water as per ratio
- Mix and shake the pump thorough so as to get a homogeneous suspension

- Set a nozzle in smallest unit (release water as gas) for pest control then spray on young growing leaves and shoots, for broad leaves spray on underside parts where pest lay eggs to destroy eggs and nymphs
- Spray from 5 pm as appropriate for pest control and plant metabolism when the sun is not intense
- Spray at flowering and fruiting stage to prevent pest from boring fruits/bolls
- Repeat after 7 days but for horticulture you can spray up to harvesting stage for more and health fruits.
- Store Vuruga Biocide at temperature below 30 0C, Keep out of rich of children and away from sun for better results.



Cotton Pests

