

Fytoclean:

Fytoclean is a horticultural soap of the potassium salt of fatty acids. It is successfully targets soft bodied insect pest population and control through physical mode of action. The product works upon contact with the insect cause cellular dehydration, resulting in eventual insect mortality.

Mode of action:

Fytoclean is a horticultural soap of the potassium salt of fatty acids. It is produced by adding potassium hydroxide to fatty acids from plant oils and animal fats, which are saponified by the potassium hydroxide. The soap salts are derived from fatty acids with chains of 12-18 saturated carbons and 18 carbons with one or two double bonds (unsaturated). The lipoprotein matrix of the insect cuticle is disrupted when the lipophilic carbons of Fytoclean penetrate into it. This results in evacuation of cellular contents, causing the cells to dehydrate and die. Fytoclean disrupts the cuticle of soft bodied insects (e.g. mealybug, giant mealybug, aphids, whiteflies, and thrips) which makes them vulnerable to dehydration. Fytoclean acts rapidly and does not leave any residue on fruit or vegetables.

Benefits of Fytoclean

- Biorational and safe insecticidal soap salt.
- Highly effective against mealybug, giant mealybug, whitefly and other soft bodied insects
- No pre harvest interval, therefore, it can be used right up to the crop harvest.
- Biodegrades rapidly leaving no harmful residues on fresh produce.
- Leave 0% residue on fresh produce after application.

Tried and Tested

Fytoclean has undergone a number of field trials to test its efficacy as a control product. Results demonstrated that application of Fytoclean significantly reduced soft bodied insects; mealybug, giant mealybug, aphid, whitefly, thrips, spider mites without harming beneficial insects.

Additionally, Fytoclean was deemed safe for application at any time up to plant harvest and has no preharvest interval, providing crop protection throughout the life of the plant. It can be applied during the day of harvest.

How to use

Fytoclean spray is a soluble concentrate easily dissolved in water. Fytoclean should be used diluted to a 0.5%-1% strength solution, e.g. mix 5-10 ml of concentrate for every 1 litre of water.

Spraying should be carried out during early morning or late afternoon to avoid scorching leaves. The foliar spray should cover both upper and lower surface of the leaves until it runs off, concentrating on

infested areas to get the desired control of pests.

When to use

For control of the sucking insects, aphid, mealybug, white fly, plant hopper and spider mites in the open field and greenhouse. Use at first sighting of insects or when their damage appears.

Reapplication

Reapply the spray every 7 to 10 days until control is obtained or 5 applications have been made.

