



# Vertimite

## ***Broad Spectrum Insect & Pest Controller***

Vertimite is a broad spectrum insect and pest controller derived from various types of Nutraceutical Extracts like turmeric, pongamia, neem, custard apple, lantern camella, papaya, etc. Vertimite contains various plant and herbal extracts specially chosen for their great insect, pest and fungal control abilities.

Vertimite gives great control of thrips, white fly, aphids, scale insects, red mites, etc. It is excellent for systemic as well as contact poisoning. It also acts as a repellent to most of the insects and pests on whom chemical pesticides are of no use.

The use of various extracts makes sure that the insect or pest does not develop any kind of resistance to Vertimite unlike most other chemical pesticides. The insect when immune to one kind of extract fails to combat the effects of other extracts and this is where Vertimite is most effective.

Vertimite can replace or even enhance traditional chemical treatments and is beneficial to both organic as well as conventional agriculture.

Vertimite application does not show any residue on the final crop and hence complete solvent residue free yield is obtained.

Also, Vertimite does not harm the plant friendly insects and pest which are beneficial to the plants like bees, butterflies, etc. Plant friendly insects can be seen flying around the plot even when Vertimite is being sprayed.

It is also seen that there are no side-effects on the person spraying Vertimite. There is no skin or eye irritation or such side-effects.

When mixed in water, the pH of the solution is neutral (pH=7). Vertimite contains natural sticker spreader due to which no other sticker spreader or penetrator is required.

## **Mode of Action**

Vertimite works on all the stages in the life cycle of an insect or a pest, eggs, larvae, pupa, and adult. In the early stages of the life cycle, it leads to inhibition in feeding and to moulting. In the later stages, it leads to reduction in fecundity and breeding ability.

The three oils are easily passed into the leaf because of which, when an insect or a pest sucks the juice from the leaf, the active ingredients of Vertimite are forced into its body. There Vertimite starts its work and gives the desired results.

When the active ingredients are ingested by the insects by sucking or biting the leaf tissue, they subsequently stop feeding and doing damage to the crop.

Unlike with chemical pesticides, do not evaluate the efficacy of Vertimite with the number of dead insects but evaluate the efficacy by monitoring the reduction of leafmass or by the production of honey dew. For example, thrip colonies are seen for a few more days, but younger ones will stop to develop and reproduce.

Some of the extracts acts in a number of other ways like blocking the respiratory system of the pests, destroying the waxy coating on their bodies, interfering with their feeding and discouraging them from laying their eggs (repellent effect).

Vertimite also has one very important function. When it is sprayed on the plant, some of the nutraceutical extracts contain certain vitamins and minerals which are very useful to the plant, get absorbed by the plant. This gives very good luster and shining to the leaves thereby increasing the photosynthesis reaction of the plant.

Because of sucking by various insects and pests, it is normally seen that fungal and viral diseases follow suit. But after use of Vertimite, it is seen that the spread of fungal and viral diseases is controlled at the initial stage itself.

## **Environment**

Not a water hazardous material

## **Environmental Fate**

The active ingredients in Vertimite are rapidly degraded hydrolytically and thermolytically.

## **First Aid**

When swallowed, drink water in sufficient quantities. Do not induce vomiting. Get medical advice.

On contact with eyes, splash water on the eyes for 15 minutes. Get medical attention.

On contact with skin, wash with water.

## **IPM**

When applied at recommended rates, Vertimite is usually harmless to plant friendly and non-target species.

## **Rainfall**

Do not apply if rain is likely to fall within three-four hours following treatment.

## **Compatibility**

Can be used with all types of insecticides, pesticides, fungicides except sulphur and copper. Gives excellent results when used with Neembuda.

## **Withholding Period**

None on all crops. A period of 3 days should elapse between each applications and harvesting of all crops. Vertimite can be applied even before harvesting time without any residue problem.

## **Integrated Pest Management**

Because of the broad spectrum approach of Vertimite, it is an excellent fit to IPM.

## **Application**

Complete coverage of the plant is essential for optimum results. Any conventional spray equipment can be used. While applying make sure that even underside of the leaf is covered. Use a mask at all times.

## **Suggested Dosage**

2 ml per liter of water during all stages of life cycle of the plant. Dose of chemical insecticides can be halved when Vertimite is used with them thus saving on the spray cost.

## **Packaging**

As per requirement.

For Further Details Pls Contact:

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