

# Bacillus Thuringiensis

var. *Aizawai* 32000IU/mg WP

Bacillus thuringiensis is a microbial insecticide which is listed in exempt residual products. It is applied to the soil and the plant for the control of pest. Due to its short biological half-life and its specificity, B.t. is less likely than chemical pesticides to cause field resistance in target insects.

## Function:

Unlike typical nerve-poison insecticides, Bacillus thuringiensis var. *Aizawai* acts by producing proteins (delta-endotoxin, the "toxic crystal") that reacts with the cells of the gut lining of susceptible insects. After feeding on these Bt-proteins, the digestive system becomes paralyzed and the infected insect stops feeding within hours. Bt-affected insects generally die from starvation, which can take several days. Bacillus Thuringiensis var. *Aizawai* is produced for vegetable, rice paddy, tea plant and forest. Out B.T. products have the features with: high efficiency, broad spectrum, safe, economic, no pollution, and no resistance from pests and protection the natural enemy of the pest, It is the first and best choice for Lepidoptera and some Coleopteran pests control.

## Uses and Dosage:

Crops	Target Pests	Rates (a.i.g/ha.)	Methods of Application
Cruciferae	Green Clover worm	187-375	Spray
Vegetable	Diamondback Moth, Prodenia litura	375-565	Spray
Cotton	Cotton Boll Worm	750-1125	Spray
Paddy	Rice skipper butterfly, Rice Leafroller	750-1500	Spray at 2nd instar of larvae
	Chilo suppressalis	1500-2250	Spray at 2nd instar of larvae
Forest	Pine Caterpillar	235-315	Spray
Corn	Corn Borer	375-750	Fill to trumpet with sand
Tobacco	Tobacco Worm, Tuta Absoluta	375-750	Spray
Legumes	Leaf minors, underground nematode	375-565	Spray
Potato	Bud worms	375-750	Spray
Tea plant	Tea Caterpillar	235-315	Spray
Jujube	Tussock moth, Inchworm	235-315	Spray
Tomatto	Tuta absoluta	235-315	Spray

## Recommad application:

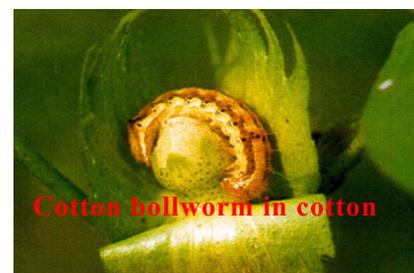
- Dilute the B.T. with water of 750 liters per hectare. Spray to let spray solution run of the plant. Turn the nozzle up, and let the solution from underside to upside.
- Start with first spray early, if necessary, spray at early instar of larvae, before first sign of infestation occurs. Repeat spray if necessary after 3days.

## Note:

1. The temperature: the most suitable temperature of spray is 25°C ~ 30°C
2. The moisture: The humidity is helpful for the B.T. to stick to the plants. The humidity of the environment is higher, the result is more effective.
3. Spry early in the morning or late in the afternoon to get maximum performance of the product.
4. Sunlight: ultraviolet is deadly to B.T., so we usually spray at 4 O'clock in the afternoon or when the weather is cloudy.
5. Rainstorm would flush the solution of B.T. to disable the pesticide.

## Caution:

1. High poisonous to silkworm.
2. Do not use together with bactericide or alkaline pesticide.



Cotton bollworm in cotton



Tuta absoluta in tomato



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