

CIR-181751/2021-Emamectin Benzoate (EC) (428)-2050

Emamectin Benzoate 1.9% EC

(Insecticide)

Emamectin benzoate 1.9% EC is a water soluble liquid formulation containing 1.9% active ingredient and is recommended for the control of bollworms in Cotton; Leaf folder & hispa on Paddy; Green semilooper, Pod borer, Girdle beetle and Tobacco caterpillar on Soybean; pod borer on Checkpea; fruit borer & thrips on Chilli; Fruit borer (*Helicoverpa armigera*) on Tomato. It is an insecticide with stomach action and should be ingested by the larvae to be most effective. Affected larvae become paralyzed and stop feeding shortly after exposure to Emamectin Benzoate 1.9% EC and subsequently die after 2-4 days.

Recommendation

<u>Crop(s)</u>	<u>Common Name of Pest</u>	<u>Dosage/HA</u>		<u>Dilution in Water (L)</u>	<u>Waiting Period between last spray to harvest (days)</u>	<u>Re-entry after each Application (In Hours)</u>
		<u>AI (g)</u>	<u>Formulation (ml)</u>			
Cotton	Bollworms	11.0	580	500	15	
Chickpea	Pod borer	7.13	375	500	14	-
Tomato	Fruit borer (<i>Helicoverpa armigera</i>)	7.13	375	500	3	-
Paddy	Leaf folder & hispa	8.08	425	500	48	-
Chilli	Fruit borer & Thrips	7.13	375	500	14	-
Soybean	Green semilooper, Pod borer, Girdle beetle and Tobacco caterpillar	8.08	425	500	20	-

Direction of Use

Apply the insecticide when the incidence of larvae is first observed and repeat applications as necessary. Apply the insecticide in sufficient quantity of water to ensure thorough coverage of the foliage.

Plant protection equipment: Knapsack sprayer, compression knapsack sprayer, battery operated power sprayer.

Time of Application

Emamectin benzoate is recommended for the control of following pests in Cotton, when applied as foliar spray.

Precaution

1. Avoid inhalation, skin or oral contact with pesticide.
2. Do not chew tobacco, eat food or smoke during spraying.
3. While spraying use protective clothing, rubber gloves, boots, face shield or dust mask, overall, rubber apron, hood or hat.
4. Spray only in the direction of wind currents and not against so as to avoid spray drifts setting on body.
5. Wash hands and contaminated parts of body well with soap and water after spraying.
6. Clean sprayer thoroughly with water after completion of work.

Symptoms Of Poisoning

Early symptoms of poisoning may be a combination of dilation of pupils, muscular in-coordination, ataxia and muscle tremors.

First Aid

Remove the affected person to a well-ventilated area or fresh air and protect him from under cooling. In case of skin contact: Remove contaminated clothing and thoroughly wash the affected parts of the body with soap and water. In case of eye contact: Rinse eyes with clean water for several minutes. In case of ingestion: Give the patient one or two glasses of water, if able to swallow. Do not induce vomiting. Get the attention of the medical doctor immediately.

NOTE: Do not induce vomiting or never give anything by mouth to an unconscious person.

Phytotoxicity

Non phytotoxic when used as per recommendation.

Antidote

No specific antidote. Treat symptomatically.

Disposal Of Used Container

1. Dispose packages or surplus materials and washing in a safe manner so as to prevent environmental or water pollution.
2. The used packages shall not be left outside to prevent their re-use.
3. The packages shall be broken and buried away from habitation.

Storage Conditions

1. The packages containing the insecticide should be stored in original containers in separate rooms or premises, away from the rooms or premises used for storing other articles particularly articles of food or shall be kept in separate almirahs under lock and key.

2. The rooms or premises meant for storing the insecticide shall be well built, dry, well lit, and ventilated and of sufficient dimensions to avoid contamination with vapour.

Chemical Composition:

Emamectin Benzoate Tech (Based on 95% w/w purity of a.i.)	2.00 % w/w
n-hexanol Solvent	33.00 % w/w
(N-Methyl pyrrolidone) Co solvent	28.70 % w/w
Blend of Anionic Ethoxylated Fatty Glycerides Emulsifier and Non ionic- Ethoxylated Sorbitan Esters	35.00 % w/w
Surfactants	1.00 % w/w
BHT Antioxidant	
Furmaric acid Acidifier	0.30 % w/w
	Total: 100.000 % w/w
