

CIR-181655/2021 -Acephate + Bifenthrin (WDG) (428)-1689

(Insecticide)

Acephate 50% and Bifenthrin 10% is a wettable graules containing Acephate 50% a.i. and Bifenthrin 10% a.i. in the formulation. It is used for control of Leaf hopper, Aphid, Thrips & Bollworms on Cotton crop.

* Caution :- It is toxic to honey bees, spray application should be avoided during the foraging period of bees.

Recommendation

Crop(s)	Common Name of Pest	Dosage/HA		Dilution in Water	Waiting Period between last spray to harvest	Re-entry after each Application (In Hours)
		AI	Formulation			
Cotton	Leaf hopper, (Amrasca biguttula) Aphid (Aphis gossypii) Thrips (Thrips tabaci) Bollworms (Helicoverpa armigera, Earias Spp., Pectinophora gossypiella)	400+80	800	500-750	20	

Direction of Use

The required quantity of ready mix formulation Acephate + Bifenthrin was diluted in water and sprayed by using hands operated knapsack sprayer @800g/ha.

Time of Application

Equipment used in the application: Use knapsack sprayer fitted with hollow cone nozzle for spray.

Precaution

1. Avoid inhalation and contact with skin and eyes.
2. Keep away from children, foodstuffs, animals feed, heat and flame. Store in a cool and dry place under lock and key.
3. Do not mix the insecticides with bare hands.
4. Do not eat, drink, smoke or chew tobacco while spray.
5. Spray the insecticides only in the direction of wind blowing and not against it so as to prevent the setting of the drift on body.
6. The user should use full protective clothing with rubber gloves, boots. Face should be covered with face shield or dust mask and body should be covered with an overall rubber apron and hood or hat.
7. Do not use as an ultra low volume spray.

Symptoms Of Poisoning

Headache, giddiness, vertigo, nausea, vomiting, blurred vision, diarrhoea, convulsions, excessive sweating, lacrimation and salivation may occur. Rashes numbing, burning or tingling.

First Aid

Wash the contaminated skin thoroughly with soap and plenty of water. Remove the contaminated clothing. If swallowed induce vomiting by tickling the back of throat. If eyes are contaminated, flush the eyes with plenty of fresh water for at least 10 minutes. Remove the patient into fresh air.

Antidote

1. Atropinize the patient immediately and maintain full atropinization by repeated doses of 2 to 4 mg. of atropine sulphate intravenously at 5 to 10 minutes interval. As much as 25 to 50 mg. of atropine may be required in a day. The need for further atropine administration is guided by the continuance of symptoms. Extent of salivation is a useful criterion for dose adjustment. 2. Dissolve 1-2 gm of 2 PAM in 10 ml distilled water and inject intravenously very slowly for 10-15 minute.

Disposal Of Used Container

1. The packages shall be broken and buried away from habitation.
2. The used packages shall not be left outside to prevent their re-use.
3. Packages or surplus material and washings should be disposed off in a safe manner so as to prevent environment or water pollution.

Storage Conditions

1. The packages containing the insecticides shall be stored in separate rooms or premises away from rooms or premises used for storing the other articles or shall be kept in separate almirahs under lock and key depending upon the quantity and nature of the insecticide.
2. The rooms or the premises meant for storing the insecticides, shall be well built, well lit, well ventilated and sufficient dimensions to avoid contamination with vapors.

Chemical Composition:

Acephate Technical (Based 97% a.i.)	51.55 % w/w
Bifenthrin Technical (Based 95% a.i.)	10.53 % w/w
Dispersing Agent: Sodium salt of naphthaline sulfonic condensate	12.00 % w/w
Wetting agent: Sodium lauryl sulphate	05.00 % w/w
Anti Foaming Agent: Silicon base Antifoam	01.00 % w/w
Carrier: Magnesium Aluminium Silicate	07.12 % w/w
Ppt. Silica	10.00 % w/w
Binder. Poly vinyl pyrolidone	00.30 % w/w
Binder Corn Starch	02.50 % w/w

Total: 100.000% w/w
