

CIR-181852/2021-Temephos (EC) (428)-172

Temephos 50% E.C
(Public Health Insecticide)

Temephos 50% E.C is organophosphate insecticide which is very effective for control of mosquito larvae.

Recommendation

Crop(s)	Common Name of Pest	Dosage/HA		Dilution in Water liter	Waiting Period between last spray to harvest days	Re-entry after each Application (In Hours)
		AI gm	Formulation ml			
Mosquito larval treatment area ponds, swamps						
drainage ditches, canals and other breeding areas	Mosquito larvae	37.5-125	75-250	200		

Direction of Use

For most effective control, apply when mosquito larvae are in the early larval stage.

Method of Application and Equipments for use :-

The formulation should be diluted in clean water. The measured quantity of the formulation should be poured in the required quantity of water with vigorous stirring with a stick to maintain the above mentioned dosage for high volume spraying. Use manually operated high volume sprayers like Rocking sprayer, Knapsack sprayer, hand compression sprayer or foot sprayer by using the volume of water indicated.

Precaution

1. Keep away from foodstuffs, empty foodstuff containers and animals food.
2. Avoid contact with mouth, eyes and skin.
3. Avoid inhalation the spray mist. Spray in the direction of wind.
4. Wash thoroughly the contaminated clothes and parts of the body after spraying.
5. Do not smoke, drink, eat and chew anything while spraying.
6. Wear full protective clothing while mixing and spraying.

Symptoms Of Poisoning

Headache, giddiness, vertigo, nausea, vomiting, blurred vision, diarrhoea, convulsions, excessive sweating, lacrimation and salivation may occur.

First Aid

1. If swallowed, induce vomiting by tickling the back of throat. Repeat it until the vomitus is clear. Do not induce vomiting if the patient is unconscious.
2. If clothing and skin are contaminated, remove the cloths and wash the contaminate skin with copious amount of soap and water.
3. If eyes are contaminated, flush with plenty of saline/clean water for about 10 to 15 minutes.
4. If inhaled, remove the patient to 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 minutes.

Disposal Of Used Container

1. It shall be the duty of manufactures formulators and operator to dispose packages or surplus materials and washings from the machine and container shall be disposed off in a safe manner so as to prevent environmental and water pollution.
2. The used packages shall not be left outside to prevent their re-use.
3. Packages shall be broken and burried away from habitation.

Storage Conditions

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

Chemical Composition:

Temephos tech.	(Based on 90% w/w a.i)	55.55 % w/w
Emulsifier (Blend of ionic & non-ionic Ca-salt of alkyl aryl sulfonate & poly oxy ethylene	5.00 % w/w ether blend)	
Solvent	Xylene	39.45 % w/w
Total:		100.000 % w/w
