

CIR-191796/2021-Deltamethrin (Tablet) (429)-1185

Deltamethrin 25% Tablet

(Insecticide)

Deltamethrin is highly potent and biologically the most active synthetic pyrethroid. Deltamethrin 25% Tablet(2g & 1 g) is a broad spectrum contact insecticide containing 0.5 gms & 0.25g active ingredient, Deltamethrin per Tablet respectively.

* 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 in water (lit)	Waiting Period between last spray to harvest (Days)	Re-entry after each Application (In Hours)
		AI gm	Formulation No. of tab.			
Cotton	Bollworms	12.5	25 Tablets(2g)	400-600	30	
Rice	Leaf folder	12.5	25 Tablets(2g) 50 Tablets(1g)	500	7	
Impregnation of polyester, nylon and cotton bednet	Adult Mosquitoes	250 mg Dose per Bednet (10 square meter)	1 Tablet (1 g)1/2 Tablet (2 g)		It remains effective for about 6 months	

Direction of Use

CROP PROTECTION-

Take the required quantity of Deltamethrin Tablet, add to it a small quantity of water, mix thoroughly and then add the remaining quantity of water while stirring vigorously. Do not spray facing the wind. Spray solution made of Deltamethrin tablet after dilution can be sprayed by conventional manually operated knapsack sprayer or with power operated sprayers fitted with high or low volume nozzles.

BEDNET IMPREGNATION:

Step-1:

1. The surface area of the net is determined by using following formula: Surface Area = 2(a+b) x c

Where,

a =

len

gth

x

hig

ht b
=
hei
ght
x
wid
th c
=
len
gth
x
wid
th

2. the volume of water required for impregnating one bed net can be standardised by trial and error method by simply determining the volume of water just sufficient for completely soaking the bednet without causing any dripping.

For example, if the water absorption capacity of the net is say 2 litres and the area is 10 square meter, the recommended dose for one bednet will be 1 tablet in 2 litres of water. Step-II : Take the entire quantity of Deltamethrin tablet, add to it small quantity of water, mix thoroughly and then add a remaining quantity of water while stirring vigorously. Dip the net in the solution until it is properly soaked. The solution should be thoroughly applied to the net by repeated rubbing and squeezing so as to evenly distribute the solution to all parts of net. Step-III : Do not hang the net for drying to avoid dripping, instead the impregnated nets are laid on a non-absorbent surface (such as plastic sheet) and allowed to become semi dry. Moist or semi dry nets are then hung on a wire and allowed to dry completely. Both semi and complete drying must be done in the shade.

METHOD OF USE OF TREATED BEDNET :

Bed net impregnated with deltamethrin 25% w/w tablet solution and dried completely, can be hung over the bed and used normally. It will remain effective for about 6 months. Repeated washings of bed net removes the insecticide, hence, avoid washing. If washed, treat the net again as described above.

Time of Application

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Precaution

Precautions while impregnating/re-impregnating mosquito bednets with Deltamethrin 25% Tablet/while washing :

A] While impregnating/re-impregnating:

1. Wear protective clothing like apron, gloves, mask & goggles. This process to be done under shed and not under fan or using heavy wind velocity.
2. Impregnated nets to be spread on a plastic sheet for initial drying in order to stop dripping. Then to be hung under shade for further drying.
3. Avoid washing between two impregnations.

B] WHILE WASHING:

1. Wear protective clothing while washing.
2. Impregnated nets to be washed separately with water and also to be dried separately.
3. Surplus washing to be destroyed or buried in soil away from the inhabitants & from water sources to avoid contamination.

Avoid drinking, eating or smoking during spraying. Avoid any contact of the concentrate with the eye or skin. After each spraying wash hands and exposed parts of the body thoroughly.

Symptoms Of Poisoning

1. Nervousness, anxiety, salivation, tremors and convulsions.
2. Vomiting may occur if ingested.

There may be allergies manifestation like hayfever, rhinitis or even asthmatic attack. Rarely there is severe anaphylactic shock including peripheral vasculocollapse. Patient shows neurological manifestations, including convulsions, muscular fibrillations and pepanic paralysis.

First Aid

In case of eye or skin contact, immediately flush with plenty of water for at least 15 minutes. If swallowed, drink one or two glasses of water and induce vomiting. Call a doctor who will treat symptomatically.

Antidote

No specific antidote . Symptomatic and supportive therapy to be given.

Disposal Of Used Container

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

Storage Conditions

The package containing the insecticide shall be stored in original containers in separate rooms or premises away from the rooms / premises used for storing other articles or shall be kept separately under lock and key. The rooms or premises meant for storing the insecticides, shall be well-lit, cool, well ventilated, well-built, dry ventilated and of sufficient dimension.

Chemical Composition:

Deltamethrin a.i.	25.00 % w/w
Calcium lignosulphonate	20.14 % w/w
Nonyl phenol	3.30 % w/w
Poly vinyl pyrrolidone	5.00 % w/w
Xanthum gum	0.02 % w/w
Magnesium stearate	0.10 % w/w
Dinatonium Benzoate	0.004 % w/w
Micro crystalline Cellulose	46.436 % w/w
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Total: 100.000 % w/w	
