

CIR-191789/2021-Deltamethrin (FLOW) (429)-1180

**Deltamethrin 2.5 % FLOW**  
**( Household Insecticide )**

Deltamethrin 2.5% Flow is a pyrethroid insectide. Deltamethrin 2.5% Flow is odourless and stainless.

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

**Recommendation for use:-**

- A) For bed-nit impregnation to protect against adult mosquitoes. It remains effective for about 6-8 months.
- B) For control of cockroaches, mosquitoes and houseflies as residual spray on surfaces. Depending on the surface sprayed the effectiveness will last for 3 to 4 months.

A) Bed Net Impregnation

1) DOSAGE: For control of adult mosquitoes

Name of		Type of use
Dosage/M2 area of bed-net		
Insect Pest	a.i.	Formulation
Adult		For impregnation
25 mg	1ml	
Mosquito		of polyester, nylon And Cotton bed net

-----Step I

1) The surface area of the net is determined by using the following formula:

$$\text{Surface area} = 2(a+b) + c$$

Where a = length x height  
b = height x width  
c = length x width

VOLUME OF WATER

- 2) The volume of water required for one net can be standardized by determination of water just sufficient for completely soaking the bed net without causing any dripping by trial and error. For example if the water absorption capacity of net is say 2 liters and area is 10 sq m the recommended dosage for every sq m of cloth is 1 ml of Deltamethrin 2.5% Flow. Therefore, Deltamethrin 2.5% Flow required for 10 sq m bed will be 10 ml in 2 liters water.

STEP II The required quantity of Deltamethrin 2.5% Flow and Water should be mixed thoroughly in wide plastic basin. During impregnating normal precaution should be followed as for the use of other insecticide i.e. use of protective clothing, rubber gloves etc avoid contact to dyes, nose, mouth and wash hands thoroughly after work.

Dip the net in the solution until it is properly soaked. The Deltamethrin solution should be applied thoroughly to the net by repeated rubbing and squeezing so as to distribute the solution evenly to all parts of the 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 a rubber ground sheet) and allowed to become semi-dry.

Moist or half dry nets are then hung on a wire and allowed to dry completely. Drying (both stages) must be done in the shade.

USE OF TREATED BED NET: Deltamethrin 2.5% flow treated bed net after completely drying can be replaced over the bed and used normally. It will remain effective for 6-8 months. Repeated washing of bed net removes the insecticide. Therefore avoid washing. If washed, treat again with Deltamethrin 2.5% Flow.

B) SURFACE TREATMENT:

1. DOSAGE:

Name of insect	Place	Dosage
Cockroaches, Houseflies and Mosquitoes	House, Factories, Offices, Marketplaces, Hospitals, Hotels, Cattle sheds etc.	Deltamethrin 2.5% Flow concentrate with 1 liters of water
Apply 1 liter of this solution to spray 10 m <sup>2</sup>		to 20 m <sup>2</sup> area

1. METHOD OF SPRAYING: Deltamethrin 2.5% flow can be sprayed as water suspension with ordinary hand compression knapsack sprayers, household hand sprayers and atomizers on walls, ceilings, floor, hiding places of household pets to have a rapid knockdown effect and residual effect.

**Direction of Use**

For effective control of common household pests such as cockroaches, houseflies & mosquitoes.

**Time of Application**

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**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.
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**

Nervousness, anxiety, tremors, convulsions, nausea, vomiting , allergies may occur.

### **First Aid**

1. If swallowed, do not induce vomiting or give anything orally.
2. If clothing and skin are contaminated, remove the clothes and wash the contaminated 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.

### **Phytotoxicity**

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### **Antidote**

No specific antidote is known. Treat symptomatically. Antihistamines may be given to control allergies.

### **Disposal Of Used Container**

1. It shall be the duty of manufactures, formulators of product and operators to disposed off packages or surplus materials and washing from the machine in safe manner so as to prevent environmental and water pollution. Packages shall be broken and burried half metre deep in soil away from habitation.
2. The packages shall not be left outside to there re-use.

### **Storage Conditions**

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

### **Chemical Composition:**

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Deltamethrin Tech	(based on 98% w/w purity)	2.55 % w/w
Sodium salts of Alkyl naphthalene		1.50 % w/w
Sulphonic acid sodium Lauryl sulphonate Condensation products		0.07 % w/w

Silicon dioxide	1.50 % w/w
Polydimethyl-siloxanes	0.17 % w/w
Citric Acid	0.02 % w/w
Hetero polysaccharides	0.41 % w/w
Formaldehyde	0.08 % w/w
Water	93.70 % w/w
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<b>Total: 100.000 % w/w</b>	
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