

## K-Othrine® Flow

DELTAMETHRIN 2.5% SC  
(HOUSEHOLD INSECTICIDE)

Read the entire leaflet, follow direction strictly.

Deltamethrin 2.5% SC is a highly effective synthetic pyrethroid insecticide, with persistence, knockdown and long-lasting residual effect. Deltamethrin 2.5% SC is safe and effective.

**Composition:**

Deltamethrin a. i. : 2.5% w/w

Dispersing agent (Sodium salts of Allyl naphthalene Sulphonate & Aromatic sulphonic acid condensation products)

Wetting Agent (Sodium Lauryl sulphate (Silica (Silicon Dioxide)) : 1.5% w/w

Anti-foaming agent (Polydimethylsiloxanes)

Seduction agent (Citric Acid)

Stabilizer (Hetero polyisobutylene)

Stabilizer (Formaldehyde) : 0.08% w/w

Water : 93.975% w/w

Total : 100% w/w

### RECOMMENDATION FOR USE

(A) Bed-net impregnation to protect against adult mosquitoes. It remains effective for about 6 months.

(B) For control of cockroaches, mosquitoes and house flies as a residual spray on surfaces. Depending on the surface sprayed, the effectiveness will last from 4 to 6 weeks.

(C) Bed-net Impregnation & Re-impregnation

1. Doseage: For control of adult mosquitoes

Name of Insect Pest	Type of use	Dose/Impregnation Area of bed-net a.i.	bed-net formulation
Adult Mosquito	For impregnation of polyester, nylon as well as cotton bed-net	25 mg/m <sup>2</sup>	1 ml

2. Procedure: For bed-net impregnation and Re-impregnation.

Step I

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

Surface Area= a.b.c.hc

Where a = length x height

b = width x height

c = length x width

2) The Volume of water required for one net can be calculated by

determining the water usage for completely impregnating the bed-net without causing any drying or heat effect. For example if the water absorption capacity of the net is say 2 litres and area is 10 sq.m, the requirement of water for one net will be 20 litres. If deltamethrin 2.5% SC required for 10 sq.m. net will be 10 in 20 lt water.

**Step II**

The required quantity of Deltamethrin 2.5% SC and water should be mixed thoroughly in wide plastic basin. During impregnation normal precaution should be followed as for the use of other insecticides i.e. use of protective clothing, rubber gloves etc. avoid contact to eyes, nose, mouth and hands through after work.

Do not mix 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 instead the impregnated nets are laid on a non-absorbent surface (such as rubber ground sheet) and allowed to become semi-dry. Most or half-dry nets are hung on a wire and allowed to dry completely. Drying (in stages) must be done in the shade.

**PRECAUTIONS FOR USE:** **DO NOT IMPREGNATE MOSQUITO BED NETS WITH K-OTHRINE 2.5 SC WHILE THEIR WEARING:**

(i) While Impregnation & Re-impregnation

1) Wear protective clothing (gloves, mask and goggles). These process should be done under shade and not under fan or heavy wind velocity.

2) Impregnated nets should be washed separately and water and also to dried separately.

3) Surplus wash should be destroyed or buried in soil away from the inhabitants and from water sources to avoid contamination.

**Use of Treated Net:**

Deltamethrin 2.5% treated bed-net after normally drying can be placed over the bed - net used normally, it will remain effective for 6-8 months. Repeating wash of bed - net removes the insecticide.

**Thoroughly wash the net:** If washed, treat again with Deltamethrin 2.5% SC.

(B) Surface treatment:

1) Doseage:

Name of Insect Pests

Places

Dosage

Cockroaches

Houses, Factories,

Offices, Market

Places, Hospitals,

Hotels, Cafes

Canteens etc.

Dilute 10 ml of

Deltamethrin 2.5% SC

concentrate with 1 litre of water.

Apply 1 litre of the

Solution to spray 10 to 20 m<sup>2</sup>.

**2) Method of spraying:**

Deltamethrin 2.5% SC can be sprayed as water suspension with ordinary hand compression knapsack sprayers, household hand sprayers and atomisers with walls, ceilings, floors, hanging places household to have a rapid knockdown effect, knock down and residual effect.

**Toxicity:** Acute oral LD 50 of Deltamethrin Technical for male rats is 128.5 mg/kg in sesame oil.

Acute oral LD 50 of Deltamethrin 2.5% SC formulation is more than 16000 mg/kg.

Precaution: Follow the general precautions for drinking, eating or smoking around the treated areas. Avoid contact with eyes, mouth and skin.

Storage: Store the insecticide in a cool dry place away from children and pets.

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