

CIR-181656/2021-Bifenthrin (EC) (428)-1266

**Bifenthrin 2.5% EC**  
**( Contact Insecticide )**

Bifenthrin 2.5% EC is a contact insecticide recommended for the control of termites in buildings and wood borers in wood.

\* Caution :- It is toxic to honey bees, spray application should be avoided during the foraging period of bees. Toxic to aquatic organisms hence should not be used near water bodies, aquaculture or pisciculture.

**Recommendation**

Bifenthrin 2.5% EC is a contact insecticide recommended for the control of termites in buildings for pre & post construction treatment and wood borer in plywood, veneer and wood.

**Direction of Use**

Bifenthrin 2.5% EC shall be applied at 0.05% a.i. concentration i.e. 20.0 ml formulated product diluted in 1 litre of water for the control of termites in buildings during pre-construction. Treatment should be as per IS 6313 (Part-2) 2001 for pre-constructional chemical treatment and IS 6313 (Part 3):2001 for post construction treatment of the existing building.

**Pre-Construction:**

The chemical emulsion shall be applied uniformly at the prescribed rate in all the stages of treatment. Hand operated sprayer or watering can should be used for application of chemical emulsion.

**Treatment of Masonry Foundations:**

1. Bottom surface and sides of foundation pits upto a height of 30 cm should be treated @ 5 ltr. chemical emulsion per sq. mtr of surface area.
2. Back fill earth in immediate contact with the foundation structure should be treated @ 7.5 ltr per sq. mtr. of the vertical surface, of the substructure for each side.
3. Treatment of RCC Foundations: Treatment should start at a depth of 50 cm below ground level @ 7.5 ltr. per sq. mtr.
4. Treatment of Top surface of plinth filling: The top surface of the consolidated earth within plinth walls shall be treated with chemical emulsion at the rate of 5 ltr/m<sup>2</sup> of the surface before the sand bed or sub-grade is laid.
5. Soil treatment along external perimeter of building: Earth along the external walls of the building should be rodded at intervals of 15 cm and to a depth of 30 cm exposing the foundation wall surface. Chemical solution should be poured along the wall @ 7.5 ltr per sq. mtr of vertical surface.
6. Treatment of soil under apron along external perimeter of Building: Top surface of the earth over which the apron is to be laid shall be treated with chemical solution @ 5 ltr per sq. mtr. of the vertical surface.

**Post Construction:**

1. Soil treatment along external perimeter of building: Earth along the external walls of the building should be rodded at intervals of 15 cm and to a depth of 30 cm exposing the foundation wall

surface. Chemical solution should be poured along the wall @ 7.5 ltr per sq. mtr. of vertical surface.

2. Treatment of soil under apron along external perimeter of Building: Top surface of the earth over which the apron is to be laid shall be treated with chemical solution @ 5 Ltr per sq. mtr. of the vertical surface.
3. Treatment of soil under floor: To prevent entry of termites from cracks, soil under floor should be treated. Drill 12 mm holes at the junction of floor and wall at 30 cm interval to reach the soil below. Squirt the chemical solution @ 1 ltr per hole and seal.
4. Treatment of voids in masonry: The movement of termites through masonry walls may be restricted by drilling holes in masonry wall at about 45° angle preferably from both sides of the plinth wall at 30 cm interval and squirt the chemical in holes till refusal and seal the holes.
5. Treatment of Upper Floors: In case of infestation in upper floors, treat ground floor of the existing building as described above.

Equipment: Hand operated knapsack sprayer or foot sprayer is recommended.

Recommendation for control of wood borer (Powder post beetle) in Plywood, veneer and wood:

Plywood:

- i) Apply 400ml formulation/m<sup>3</sup> of wood as glue line poisoning.
- ii) Mix 1 ltr of formulation in 99 ltr. of water to make 0.025% solution and applied by dipping method.

Veneer: Mix 1 ltr of formulation in 99 ltr. of water to make 0.025% solution and applied by dipping method.

Wood: Mix 1 ltr of formulation in 99 ltr. of water to make 0.025% solution and applied by dipping/brushing method.

### **Time of Application**

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### **Precaution**

1. Do not touch or inhale the insecticide.
2. Use rubber gloves and face mask while spraying the insecticide.
3. It should not be used in the areas where pisciculture/aquaculture is practiced.

### **Symptoms Of Poisoning**

Symptoms of overexposure include bleeding from the nose, tremors and convulsions. contact with this product may occasionally produce skin sensations such as redness, numbing burning or tingling. these skin sensations are reversible and usually subside within 12 hours.

### **First Aid**

1. If inhaled remove the patient into fresh air. if breathing difficulty or discomfort occurs and persists, obtain medical attention.
2. Rinse mouth with water. dilute by giving 1 or 2 glasses of water.
3. Never give anything by mouth to an unconscious person. Consult a medical doctor immediately.
4. Remove contaminated clothes, wash contaminated skin and clothes with soap and plenty of water. Get medical attention if irritation occurs and persists.
5. If eyes are contaminated, wash for 15 minutes with clean water.

### **Phytotoxicity**

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### **Antidote**

Treat symptomatically and supportively.

### **Disposal Of Used Container**

1. It shall be the duty of manufactures formulators of insecticides and operators to dispose packages or surplus materials and washing in a safe manner so as to prevent environmental or water pollution
2. The used packages shall not be left outside to prevent their re-use.
3. The packages shall be broken and buried away from habitation.

### **Storage Conditions**

1. The package containing insecticides shall be stored in separate rooms or premises away from the room or premises used for storing other articles or shall be kept in separate almirahs under lock and key depending upon the quantity and nature of the insecticides.
2. The rooms or premises means for storing insecticides shall be well built, dry, well-lit and nentilated and of sufficient dimension to prevent environmental contamination with vapour of insecticide.

### **Chemical Composition:**

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Bifenthrin a.i.		2.50 % w/w
Emulsifer	Blend of Calcium alkyl benzene sulphonate and alkoxy alkyl ether and alkoxy alkyl aryl ether	10.00 % w/w
Solvent CIX		Q.S. % w/w
		<b>Total: 100.000 % w/w</b>

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