

Lambda-Cyhalothrin

(Karate)

Insecto-acaricidal solution for treatment of buildings and structures

Manufacturer: LLC “Biotecs”, Georgia

General Information

Lambda-cyhalothrin solution is an insecto-acaricidal product for treatment of buildings and structures. It is used against a wide spectrum of parasites and vectors of zoonanthropotic diseases (mosquitoes, ticks, flies, etc.).

The solution contains:

- Lambda-cyhalothrin – 5%
- Excipients – up to 95%

Packed in 5 ml glass ampoules.

Each package unit is labeled and includes: manufacturer name and address, trademark, trade name in Georgian and Latin, composition, quantity per package, purpose and directions for use, batch number, manufacturing date, expiry date (month, year), and storage conditions.

Storage Conditions

Store in a dry, cool place protected from light, at room temperature.

Keep away from food and water.

Shelf life: 5 years.

Biological Properties

Lambda-cyhalothrin 5% solution belongs to the pyrethroid group of insecto-acaricides for building treatment.

Mechanism of Action

Lambda-cyhalothrin acts on the parasite's nervous system. Like most pyrethroids, it is designed to be environmentally stable, providing long-lasting activity.

The product acts rapidly. It penetrates through the insect cuticle and affects sodium channels in nerve cell membranes, disrupting nerve conduction. This causes continuous nerve activation, depolarization of nerve cells, rapid loss of muscle control, tremors, and ultimately pest death.

Within minutes after exposure, insects stop feeding, become disoriented, develop paralysis, and finally die.

Method of Application and Dosage

Highly effective against a wide spectrum of parasites at all life stages (from larvae to adults).

Provides rapid knockdown effect and long-lasting protection, including under adverse conditions (photostability and rain resistance).

Use strictly according to instructions. Apply early in the morning or after sunset. Do not apply in sunny, windy, or rainy weather.

Preparation of working solution

Dilution rate:

5 ml per 1 liter of water

Consumption:

1 liter of prepared solution per 1 m²

Dosage Table

Parasites	Dose (ml/L)	Special Instructions
Larvae	5 ml per 1 L water	For larval control. Apply to surfaces or air in sufficient quantity to ensure complete coverage. 5.7 L per 4 m ² .
Flies, mosquitoes, ticks, beetles	5 ml per 1 L water	Follow the same instructions as for larvae.

Personal Safety Measures

Follow general hygiene and safety regulations when handling insecticides.

After work, wash hands thoroughly with warm water and soap.

Hazardous if swallowed, inhaled, or absorbed through skin.

Causes eye irritation.

Avoid contact with skin, eyes, and clothing.

After contact, wash thoroughly with soap and water.

Remove contaminated clothing and wash before reuse.

Keep children away from treated areas until dry.

Skin or eye irritation may occur. Treatment is symptomatic.

If contact with skin occurs:

Remove contaminated clothing, rinse with water, then wash with soap.

If in eyes:

Rinse with plenty of water for several minutes (remove contact lenses if possible). Seek medical attention.

If swallowed:

Do not induce vomiting. Seek medical advice immediately.

Have product container, label, or safety data sheet available.

Do not leave undiluted chemical unattended.

Destroy empty packaging by crushing and disposing of it in a designated landfill or specially allocated pit away from water sources, plants, and tree roots.