

# LAMBDA KILL 106 CS

Reg. No. L9264 Act No. 36 of 1947

IRAC INSECTICIDE GROUP CODE 3

Active Ingredient: lambda-cyhalothrin (pyrethroid) 106 g/l

Registration Holder: Villa Crop Protection (Pty) Ltd (Co. Reg. No. 1992/002474/07)



Office No: 021 981 4011

21 Viben Street, Brackenfell

**Technical advise: 082 562 5330**

**Medical Emergency: 0861 555 777**

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## WARNINGS:

### Hazard statements:

Harmful if swallowed.
May be fatal if swallowed and enters airways.
Fatal if inhaled.
Very toxic to aquatic life with long lasting effects.

- Handle with care.
- Do not spray directly onto food.
- Store away in the original box under lock and key in a cool, dry place away from food, feeds and drinking water.
- Keep out of reach of children, uninformed persons and animals.
- Do not apply to surfaces where food is prepared or handled.
- **In case of poisoning call a doctor and make this label available to him/her.**

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions. The action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label, the occurrence of resistance of the pest against the remedy concerned as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned, due to failure of the user to follow the label instructions or to the occurrence of conditions, which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

## PRECAUTIONS:

### Precautionary statements:

Wash hands and face thoroughly after handling.
Avoid breathing dust, fume, gas, mists, vapours or spray.
Do not eat, drink or smoke when using this product.
Use only outdoors in a well-ventilated area.
Avoid release to the environment.
IF SWALLOWED: Get emergency medical help immediately.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Rinse mouth.
Do NOT induce vomiting.
Collect spillage.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents/container in accordance with local regulations.

Relevant hazardous components	
Lambda-cyhalothrin	106 g/l
Solvento 150	< 155 g/l

- Wear protective clothing (overalls with long sleeves), gloves, mask that covers nose and mouth and face shield when applying pesticide indoors.
- Wash with water in the event of accidental eye contact.
- Wash with soap and water after use or in the event of accidental skin contact.
- Wash contaminated clothing after use.
- Avoid spray drift onto fishponds and fish tanks/bowls.
- Prevent contamination of food, feeds, drinking water and eating utensils.
- Mattresses, bedding and furniture must be completely dry before using.

- **TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS:** Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler [www.croplife.co.za](http://www.croplife.co.za). Do not bury, burn, or donate the container to any other parties that may use it as a container for food or beverages.
- Thoroughly clean spraying equipment directly after use and dispose of wash water where it will not contaminate food, grazing, boreholes, rivers or dams.
- Never re-use the empty container for any other purpose.
- Re-entry: Do not enter treated area within 1 hour after treatment unless wearing protective clothing.

## SYMPTOMS OF HUMAN POISONING:

No cases of poisoning have been described in the general population and none from occupational exposure.

However, symptoms that may arise if the product is mishandled and overexposure occurs are: nausea, vomiting, diarrhoea, abdominal pain, ataxia, unsteady gait, hyperexcitability, salivation, tremors and incontinence. Larger doses may cause convulsions and loss of consciousness.

## FIRST AID TREATMENT:

- **Skin:** Remove contaminated clothing, shoes and leather goods. Wash skin gently and thoroughly with cold water and non-abrasive soap. Do not rub the skin. Apply olive oil to affected areas for prompt relief. Get medical attention if irritation occurs and persists.
- **Eyes:** Rinse eyes with clean water for at least 20 minutes. If irritation occurs and persists, obtain medical attention.
- **Inhalation:** If vapours or mists have been inhaled and irritation has developed, remove the source of contamination or move victim to fresh air. If breathing difficulty or irritation occurs and persists, obtain medical attention.
- **Ingestion:** Have victim rinse mouth thoroughly with water. Do not induce vomiting, due to aromatic solvent. Obtain medical advice immediately. Never give anything by mouth to an unconscious person. Treat respiratory difficulty with artificial respiration and oxygen. Qualified medical personnel must perform administration of oxygen.

## NOTE TO PHYSICIAN:

There is no specific antidote available. This product contains materials that may cause severe pneumonitis if aspirated. In cases of ingestion, consider gastric lavage, however, prevent aspiration. Observe patient for respiratory difficulty from aspiration pneumonitis. Treat symptomatically and supportively.

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**RESISTANCE WARNING:**

**LAMBDA KILL 106 CS** is a group code 3 insecticide. Any insect population may contain individuals naturally resistant to **LAMBDA KILL 106 CS** and other group code 3 insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **LAMBDA KILL 106 CS** or any other group code 3 insecticides.

*To delay insecticide resistance:*

- avoid exclusive repeated use of insecticides from the same insecticide group code. Alternate or tank mix with products from different insecticide group codes.
  - integrate other control methods (chemical, cultural, biological) into insect control programmes.
- For specific information on resistance management contact the registration holder of this product.

**Mode of Action:**

**LAMBDA KILL 106 CS** is a capsule suspension insecticide active by both contact and ingestion. It has a rapid knockdown with repellent and long residual activity. **LAMBDA KILL 106 CS** modulates voltage-gated sodium channels, preventing them from closing and resulting in hyperexcitation.

**DIRECTIONS FOR USE:** *Use only as directed.*

**Mixing instructions:**

- Shake the **LAMBDA KILL 106 CS** container well before use.
- Half fill the spray tank with clean water then add the required amount of **LAMBDA KILL 106 CS**.
- Effectiveness of **LAMBDA KILL 106 CS** can be affected by very hard water (>1000 p.p.m. solutes), and/or water with a high or low pH value. The ideal pH is between 5 and 8.
- Fill the spray tank with water to the required level while maintaining agitation.
- Prepared spray mixture must not be left in the spray tank for any length of time, e.g., overnight.

**PRODUCT INFORMATION:**

*Application rate is dependent on level of infestation and species to be controlled.*

- **LAMBDA KILL 106 CS** may be used as a spot or crack and crevice treatment for the control of Ants, Cockroaches and House flies around: Buildings and houses, commercial, public and industrial premises.
- Apply to walls, floors and other areas frequented by these pests.

**Application:**

Calibrate spraying equipment before mixing LAMBDA KILL 106 CS. Use handheld spraying equipment equipped with 8003 or 8004 Teejet nozzles to deliver coarse droplets at a low pressure (max. 250 kPa). Avoid fine droplets or spray mist, especially when applied indoors.

**APPLICATION RATES:**

<b>APPLICATION OBJECTIVE</b>	<b>DOSAGE RATE</b>	<b>CONTROL PERIOD</b>	<b>REMARKS</b>
American & German cockroaches	62.5 ml / 10 l water	4 weeks	Apply at 50 ml per m2 surface. Expect four (4) weeks control on surfaces such as glass, wood and painted wood.
		24 hours to 1 week	A shorter control period can be expected on cement and painted cement surfaces.
Brown house ants	<b>NOTE:</b> Regular treatment is the only successful option for the Ant control.		
	62.5 ml / 10 l water	4 weeks	Apply at 50 ml per m2 surface. Expect four (4) weeks control on surfaces such as glass and wood.
24 weeks		A shorter control period can be expected on painted wood and cement surfaces.	
House flies	50 ml / 10 l water	24 hours to 1 week	Apply at 50 ml per m2 surface. Expect 24 hours to 1 week control on surfaces such as glass, wood, painted wood, cement and painted cement.
	70 ml / 10 l water	2 weeks	Expect at least 2 weeks good control on above mentioned surfaces.
Fish moths	62.5 ml / 10 l water	12 weeks	Apply at 50 ml per m2 surface. Expect 12 weeks control on surfaces such as glass, wood, painted wood, cement and painted cement.
Hide and skin beetles and larvae		8 weeks	Apply at 50 ml per m2 surface. Expect 8 weeks control on surfaces such as glass, wood, painted wood, cement and painted cement.
Litter beetles		12 weeks	Apply at 50 ml per m2 surface. Expect 12 weeks control on surfaces such as glass, wood, painted wood, cement and painted cement.
Ticks		12 weeks	Apply at 50 ml per m2 surface. Expect 12 weeks control on surfaces such as glass, wood, painted wood, cement and painted cement.
Mosquitoes and Malaria vector control		9 months	Apply at 50 ml per m2; Indoor Residual Sprays (IRS) e.g. to reed, PVA, cement and mud daub ect.

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