



## INTERNATIONAL LABEL TEXT

All country-specific regulations must be observed.

# ACTELLIC® 50EC

A-5832 C

*Pack size:*

*Registration Number:*

ACTELLIC 50EC is a broad-spectrum insecticide for use in Insect Pest (General Pest Control and Stored Products) and Vector Control programs

### Active Ingredient Content

500 g/litre Pirimiphos-methyl\*

\*IUPAC: O-2-diethylamino-6-methylpyrimidin-4-yl O,O dimethyl phosphorothioate

### Physical Properties

Flammable

### First Aid / Antidote

A cholinesterase inhibitor. Do not use if under medical advice not to work with such compounds. If any indisposition occurs, call a physician and apply First Aid measures as described. Antidote is Atropine.

### Hazard Classification

WHO Class II (moderately hazardous)

Irritating to eyes.						green			
KEEP LOCKED UP OUT OF REACH OF CHILDREN. KEEP AWAY from food, drink and animal feeding stuff. WEAR suitable protective clothing, gloves and eyes/face protection.									
<b>Emergency Telephone: to be added locally</b>									

*Note:* Registration number and pack size must appear on all local labels.

For more information on the directions for use, refer to the *Product Profile*.

This ILT serves as a basis for local label text

# ACTELLIC® 50EC (A-5832 C)

## Product Information

### General Information

- ACTELLIC® 50EC is a 500g/litre emulsifiable concentrate (EC) formulation containing the organophosphate active ingredient pirimiphos-methyl
- ACTELLIC® 50EC is a broad-spectrum, non-systemic insecticide, with contact, residual, stomach and fumigant activity
- ACTELLIC® 50EC is a highly flexible product that can be used to control pests that vector disease, infest stored produce and cause nuisance and infest the urban environment
- ACTELLIC® 50EC has been successfully evaluated by the World Health Organisation Pesticide Evaluation Scheme (WHOPES) for use as an Indoor Residual Spray, Space Spray, and mosquito larvicide in Vector Control programs
- ACTELLIC® 50EC has short persistence on green plant material and the environment but a long persistence on inert surfaces

### Mode of Action

- The active ingredient in ACTELLIC® 50EC, pirimiphos-methyl, is a broad spectrum organophosphate insecticide
- Pirimiphos-methyl rapidly penetrates the insect cuticle and disrupts nerve conduction via the inhibition of acetylcholinesterase.

### Spectrum of Activity

#### *Vector Control*

- ACTELLIC® 50EC is effective against a wide range of flying and crawling vector and nuisance insects including mosquitoes, flies, cockroaches, fleas, ants, ticks and lice.
- ACTELLIC® 50EC is an ideal rotation partner for non-organophosphates in resistance management

#### *Stored Products use*

- ACTELLIC® 50EC controls a wide range of key pests such as moths, beetles, mites and weevils, including the most important malathion-resistant strains.
- ACTELLIC® 50EC quickly controls existing infestations and gives long-term protection against re-infestation
- ACTELLIC® 50EC is effective under tropical, humid conditions
- ACTELLIC® 50EC persists for several months on grain and inert surfaces
- ACTELLIC® 50EC can be applied direct to grain, to walls, floors and ceilings of stores, and to sacks
- Actellic has a low mammalian toxicity and can be used for the disinfestations of domestic premises, industrial and catering establishments, food stores and education establishments.
- When used in buildings and domestic premises, Actellic persists on walls, floors, and other inert surfaces to give long-term residual insect control.
- Actellic can also be used to disinfect beaches, refuse tips and new or seasoned timber. It is very effective as an admixture to stored crops, especially cereal grains.

### Resistance Management

Rotation with alternative modes of action to reduce the likelihood or impact of insecticide resistance in target populations can be an effective measure to ensure the long-term availability of products for insect control.

In Vector Control, ACTELLIC® 50EC can be used as an effective alternative to, or in rotation with organochlorines (e.g. DDT), organophosphates (e.g. malathion), carbamates (e.g. bendiocarb), or pyrethroids (e.g. lambda-cyhalothrin), for Indoor Residual Spraying, Space Spraying, Larviciding and Mosquito net treatment.

In Stored Products markets, ACTELLIC® has been shown to be effective against OP-resistant strains (e.g. those resistant to malathion). Admixture or rotation with a pyrethroid (e.g. lambda-

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cyhalothrin, permethrin) can help reduce resistance development in target populations and ensure broad-spectrum control.

### Directions for Use

#### Vector Control

##### *Residual Insect Control*

Target Pest and Situation	Application rate	Diluent	Amount of ACTELLIC® 50EC per 1 litre spray	Application Volume
Malaria mosquitoes	1-2g/m <sup>2</sup>	Water	50-100ml	40ml spray solution / m <sup>2</sup>
Flies and nuisance mosquitoes: INDOORS	0.5g/m <sup>2</sup>		25ml	
Flies: long persistence OUTDOORS	1-2g/m <sup>2</sup>		50-100ml	
Cockroaches	1-2g/m <sup>2</sup>		50-100ml	

##### *Space Treatment*

Target Pest and Situation	Application rate	Diluent	Amount of ACTELLIC® 50EC per 1 litre spray	Application Volume Litres / ha
<b>Mosquitoes</b>				
<b><i>Thermal Fog</i></b>				
Hand-held	100g/ha	Kerosene / diesel	100ml	2
Vehicle-Mounted			40ml	5
<b><i>Cold aerosol ULV</i></b>				
Ground	100g/ha	Kerosene / diesel	400ml	0.5
Aerial	200g/ha		200ml	2
<b>Flies</b>				
<b><i>Thermal Fog</i></b>				
Hand-held	200g/ha	Kerosene / diesel	200ml	2
Vehicle-mounted			80ml	5
<b><i>Cold aerosol ULV</i></b>				
Ground	250g/ha	Kerosene / diesel	1000ml	0.5
Aerial	400g/ha		400ml	2

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### *Mosquito larvicide*

Target Pest and Situation	Application rate	Diluent	Amount of ACTELLIC® 50EC per 1 litre spray	Application Volume Litres / ha
Short persistence / Shallow water	50g/ha	Water	1ml	100
Long persistence / Deep Water	500g/ha		10ml	100

### Stored Products

#### *Store Disinfestation*

Use	Application rate
Residual Spray	500mg a.i. / m <sup>2</sup>
Fogging	5ml (2.5gai) in 100ml diluent (white oil or odourless kerosene) per 100m <sup>3</sup>

Surface	Application Volume / litres per 100m <sup>2</sup>
Metal	2.5-5
Painted wood	2.5-5
Unpainted wood	5
Concrete	5
Plaster	7
Brick	15

### **Application**

- Use the recommended rate approximately six weeks before new produce is placed in the store and, if there is a previous record of insect infestation, a second application should be made one week before storing new produce.
- Apply with a knapsack or motorized sprayer, using the volumes specified for metal, concrete, plaster, brick or wood, and wet all surfaces. It may be necessary to use a fumigant to reach inaccessible places such as roof spaces and below false floors. ACTELLIC® 50EC can be applied to walls, floors, ceilings, roofs, bin surfaces and equipment. Attention should be paid to vehicles and to outside walls and ground adjoining buildings.
- The application equipment must ensure complete cover and wetting of all surfaces, including machinery
- If roof or machinery is inaccessible, consider a fogging application ACTELLIC® 50EC after the floor has been treated with high volume ACTELLIC® 50EC
- Treatment is best carried out in conjunction with hygiene procedures such as removal of debris, dirt, old sacks etc. that can harbour insects.
- Prevent contamination of any processed foods in the store when treating

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### *Treatment of Bulk Grain*

- Application rate per 1000kg grain: 8-20ml ACTELLIC® 50EC (4-10g active ingredient) in 1-2 litres water
- The treatment should be applied using fixed nozzle equipment as near as possible to its place of storage, e.g. on the chute as the grain enters the silo; If not practical, the product can be treated whilst on the conveyor or in the auger.

### *Treatment of Bagged Produce*

Application rate / 100m<sup>2</sup>: 50ml in 5 litres water

### **Application**

- Apply ACTELLIC® 50EC to the outside of each layer of bags as the store is filled
- Treat the floor and each bag as the stack is built up
- Finish by spraying the top and sides of the stack
- If fumigated stocks are being put into the store, treat the outside of the stacks of produce at regular intervals to prevent re-infestation

### **Getting the best results**

Once ACTELLIC® 50EC has been applied according to label recommendations, residual control is largely determined by moisture and temperature. Moisture content of produce should be 13% or less. Proper cooling prevents moisture migration and spoilage, and slows insect activity.

Produce should ideally be kept within 6-8 degrees Celsius of the average outside temperature and aerated as well as possible. High tropical temperatures reduce the residual life of all insecticides and higher rates of application will be needed for long-term compared to medium-term storage.

The status of resistance to organophosphate insecticides in stored product pests varies from country to country. Some strains of beetles and weevils are now resistant to most products and require a pyrethroid or fumigation to achieve full control. Other strains are resistant to most organophosphates but remain sensitive to pirimiphos-methyl. Take advice from local consultants or advisers but do not increase the rates of application to obtain improved control.

### **Clean-up procedure**

Clean the equipment with water.

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## Safety Aspects

### Precautionary measures

KEEP LOCKED UP OUT OF REACH OF CHILDREN and other unauthorised persons, and animals.

### Operator safety

AVOID getting product in contact with skin, eyes or clothing. DO NOT inhale dust or spray mist. DO NOT eat, drink or smoke during work. Wash hands and face before eating, drinking or smoking.

WEAR protective clothing. For preparation: overalls, impermeable gloves, eyes/face protection and solid footwear. For application: overalls, impermeable gloves and solid footwear.

AFTER WORK, thoroughly clean protective equipment and wash entire body and change clothing. Wash contaminated clothing before re-use.

### First Aid

KEEP STRICTLY AT REST AS CONTINUED MOVEMENT ENHANCES THE EFFECT OF CHOLINESTERASE INHIBITION.

If poisoning is suspected stop work immediately and call a physician. Show label to the physician. In case of contact with skin, remove contaminated clothing; wash affected body parts immediately with plenty of water and soap. Rinse splashes from eyes with abundant fresh and clean water for several minutes. If inhaled move to clean air. If swallowed, repeatedly administer medicinal charcoal in plenty of water. Seek medical advice immediately if a large volume of concentrate was ingested.

Note: Never give anything by mouth to an unconscious patient and never induce vomiting.

### Skin contact

Remove contaminated clothing and thoroughly wash the affected parts of the body with soap and water.

### Eye contact

Rinse eyes with clean water for several minutes and immediately call a physician.

### Antidote

Atropine; in addition oxime preparations such as Toxogonin, under medical supervision.

### Environment and wildlife

**DO NOT contaminate water used for irrigation or domestic purposes and water areas, such as ponds, ditches, lakes, drainage systems, etc. by disposal of product waste. Newly treated areas must not be grazed and all livestock is to be kept out.**

### Spillage and leakage

Remove heavily contaminated soil layer and bury in a safe place away from water supplies. Collect up spilt material thoroughly and bury it in a safe place or put it in a waste bin or in a plastic bag and dispose of on a landfill-site approved for pesticides. Rinse spill area with plenty of water.

Note: Spilt product must not be re-used.

### Product and container disposal

Provided there are no local legal or other rules and regulations, the following procedure is recommended: Dispose of surplus product on a landfill site approved for pesticides or bury in a safe place away from water supplies. Dilute surplus application mixture; pour it broadcast on fallow land. Empty the containers well, rinse several times and add the rinse solution to the

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spray tank. Dispose of containers made of cardboard, paper or plastic on a landfill site or burn in a safe place. If burned stay out of the smoke. Be sure that the smoke or fumes will not damage nearby plants, crops or trees, or harm animals. DO NOT re-use empty containers for any other purpose.

Note: ALWAYS comply with local legal requirements.

### Storage conditions

- Store away from sun and damp, in a well-ventilated area apart from food and feed, under lock and key.
- DO NOT contaminate water, food or feed.
- AVOID storage below -10°C and above +35°C.
- DO NOT stack containers in piles more than 2 m high, in order to avoid product compaction or damage.

### Shelf life

The shelf life is:

- For temperate climates: 2 years
- For hot climates: 2 years

According to the *FAO Guidelines on Good Labelling Practice*, if the shelf life as registered under local conditions is 2 years or more, no information on the label is required, unless explicitly requested by the local Registration Authorities. If the shelf life is less than 2 years, then information on storage stability must appear on the label, for example:

*“at least .....2 years from date of manufacturing, in unopened containers.”*

*Or, “best use before ..... (date).”*

### Legal Aspects

Before applying the product read the attached package leaflet.

### User's risk

The user bears the risk for damage resulting from factors beyond the manufacturer's control.

All recommendations for use of the product are based on the current state of the manufacturer's knowledge. Since the manufacturer cannot control the application, use, storage or processing of the product, the manufacturer cannot accept responsibility therefor.

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