



DECLARATION OF LABELLING (DOL)

Label affixed to container:

1. PRODUCT IDENTIFICATION

Product Name: Lambda-cyhalothrin 10% WP
Other Names: CYRON 25
Product Type: IRS (Indoor Residual Spray)
Formulation Type: Product is Wettable Powder (WP) formulation, packed in 62.5 g sealed water-soluble bag.

Manufactured and distributed by: BR AGROTECH LIMITED

Office address: 1505, Vikram Tower, Rajendra Place, New Delhi-110008, India

Factory address: Plot No. 620/3, GIDC Estate, Panoli Industrial Area, Ankleshwar,
Dist. Bharuch-394115, Gujarat, India

Phone: +91-11-41538777, +91-11-43661111

Email: info@bharatgroup.co.in

Website: www.bharatgroup.co.in

Lot/Batch number: [Ex. **PLMH210164**, Where **P**-Plant location, **LM**-Product code, **H**-Type of formulation, **21**-Year of formulation, **0164**-Lot number]

Manufacturing date: dd/mm/yyyy

Expiry date: dd/mm/yyyy

Country of Origin: India

Net Contents: XX Kg



2. INGREDIENT STATEMENT

Active Ingredient: Lambda-cyhalothrin (CAS No. 91465-08-6)

Active ingredient concentration: 10% w/w, which is equal to 100 g/kg

Other Ingredients concentration: 90% w/w, which is equal to 900 g/kg

Lambda-cyhalothrin Mode of Action:

Lambda-cyhalothrin being a broad-spectrum insecticide kills insects by contact, ingestion and ovicidal action. It affects the nervous system of an organism by disrupting the gating mechanism of sodium channels that are involved in the generation and conduction of nerve impulses. Pyrethroids disrupt the sodium channel activation gate by keeping it in the open position. Delayed closing of the gate results in prolonged excitation of nerve fibers in insect pests. Lambda-cyhalothrin penetrates the insect cuticle, disrupting nerve conduction within minutes; this leads to cessation of feeding, loss of muscular control, paralysis, and eventual death. Temperature influences insect paralysis and the toxicity of lambda-cyhalothrin. Lambda-cyhalothrin offers rapid knockdown and residual control while anti-feeding and repellency properties extend the biological effect against pests.

IRAC Grouping of Active Ingredient:

Lambda-cyhalothrin is a pyrethroids in **IRAC Group 3A**.



3. SAFETY

PRECAUTIONS OF USE (PRE, DURING AND POST USE):

PRIOR TO USE: For indoor residual spray application in houses, all persons and domestic animals should be kept outside during spraying. Foodstuffs, cooking utensils and furniture should be removed outside prior to application. If it is not possible to remove the furniture, then it should be covered with impermeable plastic sheeting.

AFTER USE: Wash hands and exposed skin with soap and water immediately after use. Residents and domestic animals should not enter sprayed areas until spray deposits are dry. Instruct the householder to sweep or mop the floor before children or pets are allowed to re-enter.

PERSONAL PROTECTIVE EQUIPMENT: Wear sturdy footwear, long-sleeved shirt and trousers, and gloves. Hat and face-shield must be worn when overhead application is carried out. If clothing becomes contaminated remove and wash affected clothing.

HANDLING AND STORAGE:

Handling: Avoid dust formation. Use only in area with appropriate ventilation.

Storage: Store containers tightly closed in a dry, cool, well-ventilated place away from direct sunlight and accessible by authorized persons only. Keep away from food, drink and animal feedstuffs.

DISPOSAL PROCEDURE:

The empty pouches and containers must be disposed of properly in accordance with local, state or national legislation.



WARNING:

- Do not eat, drink, or smoke whilst mixing or using product.
- Do not apply to surfaces on which raw or processed food or feed is stored, prepared, or eaten.
- Do not spray rooms with sick or bed-ridden occupants.
- Dispose of any unused spray solutions by applying on other unsprayed walls (e.g. latrines, corridors) according to these label directions.

FIRST AID:

Follow the First-Aid precautions as per the country regulations in case of Eye contact, Skin contact, Inhalation, or Ingestion of the product.

4. DIRECTIONS FOR USE

- This product Lambda-cyhalothrin 10% WP is a broad-spectrum insecticide intended to be used as an Indoor Residual Spray (IRS) for public health application to control adult vector mosquitoes (*Anopheles stephensi*), which are known to transmit malaria.
- A hand-operated compression sprayers fitted with a flat fan-type nozzle (pre-calibrated) is recommended to use for indoor residual spraying for most efficient application.

Symbol of Quality



TARGET DOSAGE AND APPLICATION RATE:

The most efficient dose rate is provided in below table for Lambda-cyhalothrin 10% WP (CYRON 25) to be used in public health applications against Anopheline mosquito species to obtain maximum residual efficacy on various surfaces by indoor residual spraying.

Target / Vector	Application	Spray Deposit Rate (g/m ²)	Dosage per 500 m ² Surface Area		
			A.I. (g)	Formulation (g)	Water (L)
Mosquito	For Public Health use	0.25	12.5	125	10

To achieve the residual effect with target dose, it is important to follow the labelled directions or dilution, mixing and spraying instructions.

APPLICATION CONSIDERATIONS:

- Do not apply to surfaces used for food preparation or eating.
- Apply to indoor walls, eaves, and other surfaces on which mosquitoes or other target vectors may rest.
- All the spray-operators should be imparted training before the spray operations.
- Two persons should involve in the spray operation. One person to operate the pump and the other one to spray the suspension on to the surface.
- The insecticide suspension must be sprayed evenly at the recommended dosage over all sprayable surfaces.



SPRAY PREPARATION / MIXING INSTRUCTIONS:

- Prepare fresh spray suspension just before the application every time.
- Remove the inner water-soluble bag from the protective outer covering, if any.
- Fill the spray tank half-way with clean filtered water.
- Add two water-soluble bags into the spray tank, stir it and fill the tank rest of the way as per the required volume and application area (Refer dilution table).
- Stir the mixture vigorously to obtain a uniform suspension.
- Seal the tank, pressurize, and mix the contents of the tank frequently.
- Apply the product suspension using a conventional hand-operated compression air sprayer fitted with a flat fan-type nozzle at required rate.

Dilution table:

Tank Capacity (L)	Application	Water-soluble bag	Nozzle type	Required Volume (L)	Surface area (m ²) to be covered
10	Public Health	2 X 62.5 g	8002E	10	500

INSTRUCTIONS FOR SPRAYING:

- Pressurize the tank in accordance with the manufacturer's instructions. The tank should be pressurized to standard pressure of 45 PSI (or 315 kPa) when using 8002E nozzle type. The target pressure should be maintained throughout the application to acquire the correct discharge rate of 740 to 850 ml per minute. If the pressure drops below 35 psi, re-pressurize the tank and continue spraying.



- Apply spray in vertical swathes of 53 cm (21 inches) wide, with an overlap of 7.5 cm. Spray from roof to floor, using a downward motion, to complete one swathe. Step sideways and spray upwards from floor to roof.
- To ensure the correct swathe width, keep the spray tip about 45 cm (18 inches) away from the wall surface. Lean forwards as you spray from top of the wall and move back as you bring the nozzle downwards, spraying at a tempo of 2.5 seconds per linear meter of surface or a two-meter swath sprayed in 5 seconds.
- Periodically agitate the sprayer during spraying operations. If spraying is interrupted, shake the sprayer before re-commencing spraying. Ensure even coverage of the spray deposits to the interior walls. Special attention should be paid to wall and roof eaves where gaps exist and mosquitoes may enter. If the roof is of thatch or similar material then the internal surface of the roof should be sprayed, using an extended lance where necessary.

Post-Spray application

Do not allow people or pets to enter the treated dwelling until spraying gets dried. Floors should be cleaned before allowing children and pets to enter the dwelling.

Maintenance of Spray equipment

Follow manufacturer's instructions.

Symbol of Quality



LABEL ON INDIVIDUAL SACHETS:

(There will be no label on individual sachet in case of bulk packaging)

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