



# LECATECH® WP

**LECATECH® WP** is a biological insecticide used to control whiteflies.

## PRODUCT SPECS

Active Agent *Lecanicillium lecanii* J27  
Agent Type Insect-killing fungi

## PRODUCT USES

Whiteflies

**LECATECH® WP** kills the insect by invading its body and releasing toxins which kill the insect.

## BIOLOGY

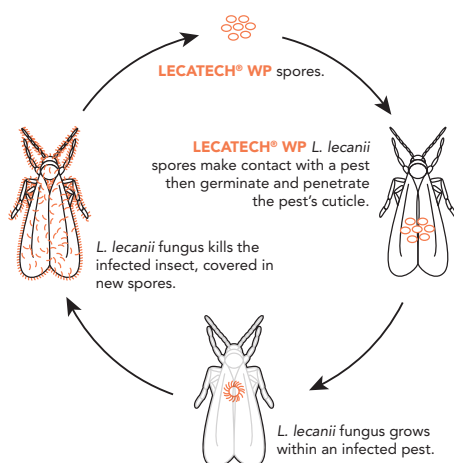
**LECATECH® WP** is a biological insecticide containing *Lecanicillium lecanii* J27, a naturally occurring specialised entomopathogenic fungus that is effective against whiteflies.

## MODE OF ACTION

The infection process is as follows:

- › **Attachment** – Spores of *L. lecanii* attach to the insect body.
- › **Germination** – spores germinate and form an appressorium.
- › **Invasion** – the appressorium breaks the insect cuticle and enters the insect body by mechanical pressure and enzymatic action.
- › **Proliferation** – the fungi multiplies throughout the insect body, releasing toxins that destroy the insect's organs leading to death of the insect causing the 'white halo disease'.
- › **Emergence** – the fungi emerge from the insect body, sporulate and start the infection cycle upon contact with other insects.

## LECATECH® WP LIFE-CYCLE AND ACTION



## ADVANTAGES OF LECATECH® WP

- › High percent kill of pests.
- › Self propagates in the field.
- › Active against a wide variety of soft bodied pests and mites.
- › No resistance development.
- › Zero PHI and zero REI.
- › No phytotoxicity.
- › Safe to the environment, users and beneficial organisms.
- › Can be tank mixed with most insecticides and miticides
- › Fits in with the conventional chemical application techniques and does not require special equipment.

## INTRODUCTION METHOD

**LECATECH® WP** is applied as a foliar spray:

- › Mix the required amount of **LECATECH® WP** with water using 2 litres for every 250g product; stir well to form a uniform suspension.
- › Add the suspension to the required volume of water in the spray tank and mix well.
- › Add the required amount of an appropriate wetter at recommended rates and mix thoroughly.
- › After mixing with water, the product should be sprayed as soon as possible; DO NOT store overnight.
- › Thorough coverage of the leaf surfaces where the insects are to be found is a must to obtain good efficacy.
- › Apply using high volume spray equipment ensuring thorough coverage.
- › Maintain a minimum Relative humidity of at least 65% for the first 8-12 hours for germination to occur.
- › Highest infection levels are achieved at temperatures of between 20 - 28°C. Best results will be achieved when applications are done late afternoon.
- › Avoid spraying between 11am and 4pm when the UV light concentration is high and the relative humidity is low, as these factors affect *L. Lecanii* spore germination.
- › Avoid fungicides at least 12 hours before and after application.

## RATE SCHEDULE

	Dosage g/Ha	Interval (days)	REI & PHI
Preventative	250g	14	0
Light/Medium Curative	250g	7	
Heavy Curative	500g	5-7	

## STORAGE

Store **LECATECH® WP** in a cool dry place, away from direct sunlight. **LECATECH® WP** may be stored for up to 6 months in original unopened container maintained at 8 - 12°C.

## PACKAGING

Beneficial Fungi as packed	
Quantity	Pack Size
1.0 x 10 <sup>10</sup> CFU per gram	250g
in an inert carrier	

## INTEGRATED PEST MANAGEMENT (IPM)

Before the introduction of pesticides, it is important that the plant is clean of negative chemical residues. Please consult the Dudutech SIDE EFFECT GUIDE on [dudutech.com](http://dudutech.com) for compatible chemicals.



If there are any questions about the product, please contact a Dudutech specialist in your area. **LECATECH® WP** is a registered trademark of Dudutech Kenya.