



dudutech 

Environmentally intelligent farming

BEAUVITECH® WP

WETTABLE POWDER

BEAUVITECH® WP is a biological insecticide containing *Beauveria bassiana*, a naturally occurring entomopathogenic fungus used in the control of whiteflies on vegetables and flowers.

READ THE LABEL BEFORE USE. KEEP LOCKED AND OUT OF REACH OF CHILDREN.

REGISTRATION NO. / Nr.: L9076; Act No. 36 of 1947
COMMERCIAL AND AGRICULTURAL CLASS

Date of Packing	Date of Exp.	Batch No.



Shelf Life: 6 months from date of packing. STORE IN COOL, DRY PLACE
6 -12°C DO NOT FREEZE.



DANGER

HAZARD STATEMENTS:

May be harmful if inhaled.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.

PRECAUTIONARY STATEMENTS

Avoid breathing dust.
Wear protective clothing.



Active Ingredient: Minimum 1.0×10^{10} CFUs of
Beauveria bassiana strain J25 per gram in an inert carrier

Net contents:

250g

Registration Holder:

 **River
Bioscience**

River Bioscience (Pty) Ltd
REG NO. 2003/022759/07
PO BOX 20388,
Humewood, 6013
T: +27 41 492 4216
E: admin@riverbio.com
W: www.riverbioscience.co.za

WARNINGS: Store in a cool, dry place in a tightly closed original pack away from direct sunlight. Do not freeze and do not allow the product to undergo thermal shock. May be stored in original un-opened container for six months at temperatures 6 – 12 °C.

DISCLAIMER: 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 BECAUSE THE ACTION 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 AND THE ABILITY OF THE TARGETED PEST TO DEVELOP RESISTANCE MEASURES AGAINST THE FUNGUS, AS WELL AS BY THE METHOD, TIME AND ACCURACY OF APPLICATION. THE APPLICATION 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 THE CONDITIONS WHICH COULD NOT HAVE BEEN FORESEEN IN TERMS OF THIS REGISTRATION. CONSULT THE SUPPLIER IN THE EVENT OF ANY UNCERTAINTY.

SAFETY INSTRUCTIONS: Although **BEAUVITECH® WP** is a biological control product based on beneficial fungi for which there have been no observed negative influences on the environment, users and beneficial organisms, the following instructions should be adhered to.

PRECAUTIONS: In case of inadequate ventilation wear respiratory protection. Contaminated work clothing should not be allowed out of the workplace.

Dispose of container and contents in accordance with local regulations.

RELEVANT SUBSTANCES:

SUBSTANCE	CAS NUMBER	CONT. %	FUNCTION
Diatomite / natural diatomaceous earth / amorphous silica (SiO ₂)	61790-53-2	>90.0	Carrier

FIRST AID:

- ▶ IF ON SKIN: Wash with plenty of water.
- ▶ If skin irritation or rash occurs: Get medical help.
- ▶ Take off contaminated clothing and wash it before re-use.
- ▶ IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- ▶ If experiencing respiratory symptoms: Get emergency medical help immediately.
- ▶ Note to doctor: **BEAUVITECH® WP** is a pure powder formulation of spores and Mycelial fragments of naturally occurring beneficial fungus, *Beauveria bassiana* strain J25, and is not known to be pathogenic or have harmful effects in human beings. However, the inert carrier material may cause mucosal irritation. There is no antidote. Treat symptomatically.

MODE OF ACTION: *Beauveria bassiana* is known to cause the white muscadine disease in insects like aphids. Fungal conidia become attached to the insect cuticle, and upon germination, the hyphae penetrate the cuticle and proliferate in the insect's body.

DIRECTIONS FOR USE: Use only as directed.

Relative humidity of above 70% and temperature of between 18–30°C are essential for conidial germination and infection establishes between 24 and 48 hours. The infected insect may live for 3-5 days after hyphal penetration and, after death conidia are produced on cadaver. Best results will be obtained when treatment starts early before pest populations become heavy.

COMPATABILITY: **BEAUVITECH® WP** is compatible with most biopesticides and insecticides; however, it is generally recommended that the grower refer to the Dudutech pesticide side-effects compatibility guide since some chemicals may have detrimental effects to *Beauveria bassiana*, as it is a living organism. Avoid chemical fungicide spray at least 3 days before and after using **BEAUVITECH® WP**.

MIXING INSTRUCTIONS:

1. Mix the required amount of **BEAUVITECH® WP** with water using 2L for every 250g.
2. Stir well to form a uniform suspension.
3. Add the suspension to the required volume of water in the spray tank and mix well.
4. Add the required amount of teepol (liquid soap) (200ml for every 1000L water) or any wetter and mix thoroughly.
5. After mixing with water the product should be sprayed as soon as possible.
6. Do not store overnight.
7. Thorough coverage of the leaf surfaces where the insects are to be found is a must to obtain good efficacy.
8. Apply using high volume spray equipment.

Maintain a minimum relative humidity of 70% for at least 12 hours.

Highest infection levels are achieved at temperatures of between 20 – 28°C.

Best results will be achieved when applications are done early morning or late afternoon.

APPLICATION INSTRUCTIONS: It is recommended to apply **BEAUVITECH® WP** at 250g per hectare with a water volume of 1500-2000 litres depending on crop canopy with aim of varying the fungal spores evenly distributed on the leaf surfaces. Frequency of application varies with the pest pressure and their susceptible life stages. Generally, it is recommended to spray every 5-7 days with between 2-4 repeat applications.