

Read the label before opening the container.

For full particulars, see enclosed leaflet.

BIOBRONIC 250 EC

South Africa Reg. No: L10932 Act No. 36 of 1947

BioBronic 250 EC is an emulsifiable concentrate contact and translaminar fungicide for the control of black spot on citrus and downy mildew as well as powdery mildew on wine and table grapes and black shank on flue cured tobacco.

FRAC FUNGICIDE GROUP CODE: 11

ACTIVE INGREDIENT:

Pyraclostrobin (strobilurin).....250g/ℓ

Product Information Tel No: 072 678 8226

In case of poisoning: 082 446 8946

www.envirobiochem.co.za

Expiry Date:

Batch No:

Date of Manufacture:

enviro
bio-chem

Registration holder:

Enviro Bio-Chem (Pty) Ltd

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HARMFUL
SKADELIK



WARNINGS:

- Allow the following minimum period between last application and harvesting:

Citrus	45 days	Table Grapes	28 days
Tobacco	83 days	Wine Grapes	28 days

NOTE: The recommended withholding period between last application and harvest meets the local residue requirements but may not meet export requirements.

- Handle with care.
- Harmful if swallowed.
- Store in a cool dry place, away from food and feed.
- Skin, eye, nose and throat irritant.
- Toxic to fish and aquatic invertebrates.
- Keep out of reach of children, uninformed persons and animals.
- Do not spray BIOBRONIC EC 250 on old neglected citrus trees, as the risk of strobilurin resistant disease developing on these trees is extremely high.
- Do not apply BIOBRONIC EC 250 on non-tolerant black shank cultivators.
- **Re-entry:** Do not enter treated area for one day after application, unless wearing protective clothing.

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 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 and the occurrence of resistance of the disease to the remedy concerned as well as by the method, time and accuracy of application. The registration holder further 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 event of any uncertainty.

PRECAUTIONS:

- Avoid contact with skin and protect eyes.
- Do not inhale spray mist.
- Wear protective clothing - rubber gloves and face shield when preparing spray mixture.
- Wash with soap and water after use and accidental skin contact.
- Do not eat, drink or smoke whilst applying or mixing or before washing hands and face
- Avoid spray drift onto other crops, grazing, rivers and dams and any area not under treatment.
- Prevent contamination of food, feedstuffs, drinking water and eating utensils.
- **TRIPLE RINSE** empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to a minimum of 10% of that of the container. Add the rinsing to the contents of the spray tank before destroying the container in the prescribed manner.
- Clean applicator after use, Dispose of wash water where it will not contaminate crops, grazing, rivers and dams.
- Destroy empty containers and never re-use for any other purpose.

FIRST AID TREATMENT:

- IF IN EYES:** Flush eyes with copious amount of water and seek medical advice.
- IF SWALLOWED:** Seek medical advice immediately and show this label.
- IF ON SKIN:** Wash skin with plenty of soap and water, summon physician.
- IF INHALED:** Keep patient calm, remove to fresh air, and summon medical help.

NOTE TO PHYSICIAN:

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

IN CASE OF POISONING, SEEK MEDICAL ASSISTANCE AND PRESENT THIS LABEL.

RESISTANCE WARNING:

For resistance management, **BIOBRONIC 250 EC** is a group code 11 fungicide. Any fungal population may contain individuals naturally resistant to **BIOBRONIC 250 EC** and other group code 11 fungicides. The resistant individuals can eventually dominate the fungal population if these fungicides are used repeatedly and exclusively in programs. These resistant fungi may not be controlled by **BIOBRONIC 250 EC** or any other group code 11 fungicide.

To delay insecticide resistance:

- Avoid exclusive repeated use of fungicide from the same fungicide group code. Alternate or tank-mix with products from different fungicide codes.
- For tank mixing or alternation with products in unrelated fungicide group codes, M refer to applicable individual product labels.
- Integrate other control methods (chemical, cultural, biological) into insect control programmes.

For specific information on resistance management contact the registration holder of this product.

DIRECTIONS FOR USE: Use only as directed.

POISONS HELPLINE: 0861 555 777

Compatibility:

Citrus:

BIOBRONIC 250 EC is compatible with mancozeb, copper containing products and narrow range mineral oil.

Grape Vines:

BIOBRONIC 250 EC is compatible with mancozeb, Vinclozolin 500g/ℓ SC, Sulphur 800g/kg WG, Dimethomorph 9% + Mancozeb 60% MZ, Dimethomorph 90g/kg + Mancozeb 600g/kg WG, Metiram 700g/kg WG, Kresomix-methyl 500g/kg WG, Alpha-cypermethrin 100g/ℓ SC, Mineral oil 844g/ℓ, Teflubenzuron 150g/ℓ SC and Fenbutatin-oxide 550g/ℓ SC.

MIXING INSTRUCTIONS:

Pre-mix the required amount of mancozeb or copper containing product, in at least 10ℓ of water and add it to the spray tank, half filled with clean water. Thereafter, measure the required volume of **BIOBRONIC 250 EC**, pre-mix in at least 10ℓ of water before adding to the spray tank. For Citrus only, finally add the mineral oil to the mixture. Fill the spray tank with water to the final volume required, while maintaining agitation to ensure thorough mixing of the spray mixture before spraying commences. Maintain agitation while spraying. Prepared spray mix must not be left in the spray tank for any length of time, e.g. overnight.

SPRAY PROGRAMMES:

Citrus:

In order to optimise the fungicidal activity of the product and ensure sustainable use of strobilurins, it is very important to apply **BIOBRONIC 250 EC** in a programme with mancozeb or copper containing products according to the resistance management programme. Never apply **BIOBRONIC 250 EC** as a solo product. To maintain a high level of control, correct timing of applications is critically important.

- Apply **BIOBRONIC 250 EC** as part of a programme, consisting of the first application of mancozeb or copper containing products, starting at fruit set (100% petal drop), at the registered rate, followed by two **BIOBRONIC 250 EC** applications, as recommended in the table. A further spray of at least one mancozeb or a copper containing product as recommended must be applied to complete the spray programme.
- Do not spray **BIOBRONIC 250 EC** to old neglected citrus trees, as the risk of strobilurin resistant disease developing on these trees is extremely high.

- Lemons: Only for export crop and local oil production, all bearing and out of season fruit should be removed from the trees before starting the programme application. Spray at fruit set (100% petal drop). Do not deviate from the recommended programme application.
- BIOBRONIC 250 EC should always be applied as a preventative treatment with limited curative abilities (maximum 3 days).
- Refer to the respective mancozeb, narrow range mineral oil and copper containing product labels for recommendations regarding their application and rates.

Grape Vines:

- Apply preventatively before an infection period occurs.
- In a spray programme, apply a maximum of three applications containing Group Code 11 fungicides, per season.
- Always apply BIOBRONIC 250 EC in a tank mixture with mancozeb.
- Alternate the spray programme with products from different group codes.

Tobacco:

- In order to optimise fungicidal activity of the product and ensure sustainable use of strobilurins, it is very important to apply BIOBRONIC 250 EC in a programme.
- Apply BIOBRONIC 250 EC as part of a programme consisting of the first application of BIOBRONIC 250 EC at transplanting, followed up 4 weeks later with Dimethomorph 90g/kg + Mancozeb 600g/kg WG.
- DO NOT apply BIOBRONIC 250 EC on non-tolerant black shank cultivars.
- BIOBRONIC 250 EC must only be applied on flue cured tobacco.

All spray applications must be made with sustainable equipment that is in good working order and correctly calibrated to give the desired coverage for that particular method of application.

CROP/DISEASE	DOSAGE	REMARKS
CITRUS Oranges, Grape Fruit, Lemons	200g mancozeb/100ℓ water	Refer to SPRAY PROGRAMMES above (BIOBRONIC 250 EC as part of a programme application)
Black Spot (<i>Guignardia citricarpa</i>)	10ml BIOBRONIC 250 EC + 150g mancozeb + 250ml light mineral oil/100ℓ water	Apply one mancozeb application at fruitset (100% petal drop). Refer to the mancozeb label. Apply BIOBRONIC 250 EC 21-24 days after the first mancozeb application, as a preventative treatment. Ensure good coverage of all fruit with a medium to full cover spray.
	200g mancozeb/100ℓ water	Apply a second BIOBRONIC 250 EC application 6 weeks later. Apply mancozeb 6 weeks after the second BIOBRONIC 250 EC application. Repeat mancozeb applications 21-24 days later if an infection period occurs in February.

Remarks: Copper containing product applications as an alternative to mancozeb in a BIOBRONIC 250 EC spray programme on citrus:

- As an alternative to mancozeb (solo or in combination with BIOBRONIC 250 EC and mineral oil), copper containing products of good quality, which are registered for the control of citrus black spot, can be included.
- These copper containing product applications should be applied according to the registered rates (Refer to the necessary label recommendations).
- In order to avoid/reduce the occurrence of copper rind stippling and any lesion accentuation on fruit, copper applications should be applied at least 60 days apart. Reduce the number of copper containing product applications to a maximum of 2-3 applications per season. Include only copper containing products of good quality.

CROP/DISEASE	DOSAGE	REMARKS
GRAPES Table and Wine grapes Downy mildew (<i>Plasmopara viticola</i>) Powdery mildew (<i>Uncinula necator</i>)	High volume application: 10-14 day programme 40mℓ BIOBRONIC 250 EC + 200g mancozeb/100ℓ water (see note below)	Refer to SPRAY PROGRAMMES above (BIOBRONIC 250 EC as part of a programme application) Apply BIOBRONIC 250 EC as a preventative treatment, commencing at 10cm shoot length or prior to an infection period (conditions favouring the development of the disease). Repeat at 10-14 day intervals and do not apply more than 3 applications per season. If more than 3 applications are needed per season apply other non group code 11 fungicides (e.g. Dimethomorph 90g/kg + Mancozeb 600g/kg WG, for downy mildew control) A powdery mildew control programme should be started at 2.5cm shoot length with a product from a different group code (non group code 11). Do not apply after pea berry stage on table grapes.
TOBACCO Black Shank (<i>Phytophthora nicotianae</i>)	1.2ℓ BIOBRONIC 250 EC / 15 000 plants 2kg Dimethomorph 90g/kg + Mancozeb 600g/kg WG / 15 000 plants	APPLICATION AT TRANSPLANTING: Fill the planting hole with water. Mix 80mℓ BIOBRONIC 250 EC /100ℓ water and apply 100mℓ mixture into the hole while still full with planting water (apply before planting the tobacco). APPLICATION 4 WEEKS AFTER TRANSPLANT: The BIOBRONIC 250 EC application should be followed up 4 weeks later with Dimethomorph 90g/kg + Mancozeb 600g/kg WG (see relevant label for instructions).

NOTE

WATER VOLUME REQUIREMENTS ON GRAPES

GROWTH STAGE	WATER VOLUME ℓ/HA	
	Wine Grapes	Table Grapes
Shoots 2.5cm - just prior to flowering	300 - 750	500 - 1 000
Flowering - pea-berry size	750 - 1 000	1 000 - 1 500
Pea-berry size - harvest	1 000 - 1 500	1 000 - 1 500