

Kabaal 250 EC

South Africa Reg. No: L 9378 Act/Wet No. 36 of/van 1947



An emulsifiable concentrate contact and translaminar fungicide, for the control of black spot on citrus and black shank on flue cured tobacco.

ACTIVE INGREDIENT

FRAC FUNGICIDE GROUP CODE: 11

Pyroclostrobin (methoxy-carbamate) 250 g/l



WARNING

HAZARD STATEMENTS: Harmful if swallowed | May be fatal if swallowed and enters airways | Causes skin irritation | Causes serious eye irritation
Harmful if inhaled | May cause respiratory irritation | Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS: Obtain special instructions before use | Do not handle until all safety precautions have been read and understood | Wash hands thoroughly after handling | Do not eat, drink or smoke when using this product.

Registration holder: Green Island Investments (Pty) Ltd.
Co. Reg. No.: 2013/043963/07
P.O. Box 1822, Heidelberg 1438, South Africa
Tel: 078 737 9236

24 HR EMERGENCY NUMBERS

Griffon Poison Information Centre: +27 82 446 8946
24 Hr Transport / Spill emergency no:
(Hazcall24) +27 86 044 4411 (Typhoon Plant Protection)

Distributed by: Typhoon Plant Protection (Pty) Ltd.
Co. Reg. No.: 1998/006156/07, C/O Farm Vlakfontein
Corner of the R23 Benoni Road & R550 Nigel Road
Brakpan District, Heidelberg 1438, Gauteng, South Africa
Tel: 078 737 9236

Net Volume:

5ℓ

Expiry Date:
Batch No:
Date of Manufacture:
U.N. No. 3082

**Typhoon**
PLANT PROTECTION

READ LABEL IN DETAIL BEFORE OPENING THE CONTAINER. FOR FULL PARTICULARS, SEE ENCLOSED LEAFLET.
KEEP OUT OF REACH OF CHILDREN AND ANIMALS.



WARNINGS:

Allow the following number of days between last treatment and harvest or use as food or feed:	
Citrus	45 days
Tabacco	83 days

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

HAZARD STATEMENTS:

- Harmful if swallowed
- May be fatal if swallowed and enters airways.
- Causes skin irritation.
- Causes serious eye irritation.
- Harmful if inhaled.
- May cause respiratory irritation.
- Very toxic to aquatic life with long lasting effects.

- Handle with care.
- Store in a cool dry place away from food and feed.
- Keep out of reach of children, uninformed persons and animals.
- **Do not** spray **KABAAL 250 EC** on old neglected citrus trees, as the risk of QoI resistant disease developing on these trees is extremely high.
- **Re-entry interval: Do not** enter treated area for one day after application, unless wearing protected 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, incompatibility 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:

PRECAUTIONARY STATEMENTS:

- Obtain special instructions before use.
 - **Do not** handle until all safety precautions have been read and understood.
 - Wash hands thoroughly after handling.
 - **Do not** eat, drink or smoke when using this product.
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- **Do not** inhale fumes or spray mist.
 - Avoid skin and eye contact by wearing protective clothing when mixing the product.
Should eye contact occur, flush with plenty of water and get medical attention if necessary.
 - Wash with soap and water after use and accidental skin contact as well as contaminated clothing.
 - Wash contaminated clothing after use.
 - **Do not** eat, drink or smoke while mixing or applying the product or before washing hands and face.
 - Avoid drift of spray mist onto other crops, grazing, rivers, dams and areas not under treatment.
 - Clean applicator after use. Dispose of rinsate where it will not contaminate crops, grazing, rivers, dams and boreholes.
 - Rinse empty container three times with a volume of water equal to a minimum of 10% of that of the container.
Add the rinsings to the contents of the spray tank before destroying the empty container by perforation and flattening.
 - **Do not** use the empty container for any other purpose.
 - Prevent contamination of food, feeds, drinking water and eating utensils.

Related ingredients:

Substance/Mixture: Mixture Ingredients:

Substance name (IUPAC)	CAS – No.	Concentration % By weight
pyraclostrobin (ISO); methyl N-[2-[1-(4-chlorophenyl)-1Hpyrazol-3-yl]oxymethyl]phenyl](N-methoxy)carbamate	175013-18-0	25%
Solvent naphtha (petroleum), heavy arom.	64742-94-5	>75%
N-methyl-2-pyrrolidone	872-50-4	<5%

SYMPTOMS OF HUMAN POISONING:

May irritate the eyes and skin.

FIRST AID TREATMENT:

- Remove from source of exposure. Wash affected area.
- **Eye and skin contact:** Flush eyes with water for 15 minutes after eye contact.
- Wash with soap and water after skin contact.
- Should irritation of skin or eyes persist, consult a physician.
- **Inhalation:** Remove to fresh air. Assist breathing if necessary. Get medical attention.
- **Ingestion:** Wash out mouth. Give a spoon of activated charcoal in a glass of water. Get medical attention.
- **Never** give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN:

Treat symptomatically.

RESISTANCE WARNING:

For resistance management, **KABAAL 250 EC** is a **group code 11 fungicide**. Any weed population may contain individuals naturally resistant to **KABAAL 250 EC** and other **group code 11 fungicides**.

The resistant individuals can eventually dominate the disease population if these fungicides are used repeatedly. These resistant weeds may not be controlled by **KABAAL 250 EC** or any other **group code 11 fungicide**.

To delay fungicide resistance:

- Avoid exclusive repeated use of fungicides from the same fungicide group code. Alternate or tank mix with registered products from different fungicide group codes.
- A spray programme of mixtures or alternations with remedies with a different mode of action may delay resistant strain build-up.
- Integrate other control methods (chemical, cultural, biological) into disease control programmes.

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

DIRECTIONS FOR USE: USE ONLY AS DIRECTED.

COMPATIBILITY:

CITRUS: KABAAL 250 EC is compatible with **Mancozeb**, copper containing products and narrow range mineral oil.

Mixing instructions:

Pre-mix the required amount of **Mancozeb** or copper containing product in at least 10 ℓ of water, and add it to the spray tank half filled with clean water.

Thereafter, measure the required volume of **KABAAL 250 EC** and pre-mix in at least 10 ℓ 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 mixture must not be left in the spray tank for any length of time, e.g. overnight.

CROP RECOMMENDATION:

Citrus

In order to optimise the fungicidal activity of the product and ensure sustainable use of QoI related products, it is very important to apply **KABAAL 250 EC** in a programme with **Mancozeb** or copper containing products according to a resistance management programme.

- **Never** apply **KABAAL 250 EC** as a solo product.
 - To maintain a high level of control, correct timing of applications is critically important.
 - Apply **KABAAL 250 EC** as part of a programme, consisting of the first application of **Mancozeb** or a copper containing product, starting at fruit set (100% petal drop) at the registered rate, followed by two **KABAAL 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 **KABAAL 250 EC** to old neglected citrus trees, as the risk of QoI 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.

- **KABAAL 250 EC** should always be applied as a preventive treatment with limited curative abilities (maximum three days).
- Refer to the respective **Mancozeb**, narrow range mineral oil and copper containing product labels for recommendations regarding their applications and rates.

Tobacco:

In order to optimise fungicidal activity of the product and ensure sustainable use of strobilurins, it is very important to apply **KABAAL 250 EC** in a programme.

- Apply **KABAAL 250 EC** as part of a programme consisting of the first application of **KABAAL 250 EC** at transplanting, followed up 4 weeks later with **Dimethomorph 90g/kg + Mancozeb 600g/kg WG**.
- **DO NOT** apply **KABAAL 250 EC** on non-tolerant black shank cultivars.
- **KABAAL 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.

RECOMMENDATIONS ON CROPS AND DISEASE:

CROP/DISEASE	DOSAGE	REMARKS
CITRUS INCLUDING ALL SOFT CITRUS AND MANDARIN TYPES: Oranges, Grape Fruit, Lemons Black spot <i>(Guignardia citricarpa)</i>	200g Mancozeb /100ℓ water 10mℓ KABAAL 250 EC + 150g Mancozeb + 250mℓ light mineral oil/100ℓ water 200g Mancozeb /100ℓ water	Refer to SPRAY PROGRAMMES above (KABAAL 250 EC as part of a programme application). Apply one Mancozeb application at fruitset. (100% petal drop). Refer to the Mancozeb label. Apply KABAAL 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. Apply a second KABAAL 250 EC application 6 weeks later. Apply Mancozeb 6 weeks after the second KABAAL 250 EC application. Repeat Mancozeb applications 21-24 days later if an infection period occurs in February.
TOBACCO Black shank <i>(Phytophthora nicotianae)</i>	1.2 ℓ KABAAL 250 EC / 15 000 plants 2kg Dimethomorph 90g/kg + Mancozeb 600g/kg WG / 15 000 plants	Application at transplanting: Apply before transplanting of tobacco. Dilute 80 ml KABAAL 250 EC in 100 litres water. Fill the planting hole with water and apply 100 ml of the mixture into the planting hole while still full of water. Application 4 weeks after transplant: Follow the KABAAL 250 EC treatment up 28 days later with Dimethomorph 90g/kg + Mancozeb 600g/kg WG as per relevant label instructions.