

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

SHAKE THE BOTTLE WELL BEFORE USE.

Fungicide



MYCOBLOCK 250 SC

Reg. No. L 8591 Act/Wet No. 36 of/van 1947

5: 1/3/2018 – March 2018

*A suspension concentrate, systemic fungicide with contact and translaminar action for the preventative control of diseases in crops as indicated.
'n Suspensie konsentraat, sistemiese swamdoder met kontak en translaminêre aksie vir die voorkomende beheer van siektes in gewasse soos aangedui.*

ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL
azoxystrobin (strobilurin) **250 g/l** asoksistrobien (strobilurien)

FRAC FUNGICIDE GROUP CODE **11** FRAC SWAMDODER GROEPKODE

4 l

villa 

Registration holder / Registrasiehouer:
Universal Crop Protection (Pty) Ltd.
Co. Reg. No. / Mpy. Reg. Nr. 1983/008184/07
PO Box / Posbus 801, Kempton Park, 1620
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UN Number: 3082

Willow Set & Print 011 394-4486



CAUTION
VERSIGTIG



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UNIVERSAL CROP PROTECTION (PTY) LTD.

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P.O. Box / Posbus 801, KEMPTON PARK, 1620

Tel. (011) 396 2233

CAUTION / VERSIGTIG**WARNINGS****Withholding periods:**

Minimum time between the last application and harvest or feeding:	
Potatoes, Maize & Sweetcorn	7 days
Maize & Soybeans (Grazing)	28 days
Sunflowers	28 days

NOTE

ABOVE-MENTIONED WITHHOLDING PERIODS REFER TO COMPLIANCE WITH LOCAL MAXIMUM RESIDUE LIMITS (MRL'S). HOWEVER, IT IS IMPORTANT TO NOTE THAT IMPORT TOLERANCES OF OTHER COUNTRIES MIGHT POSSIBLY BE EXCEEDED. IF THE TREATED CROP WILL BE EXPORTED, FIRST CONSULT THE RELEVANT IMPORTER OR EXPORTING BODY REGARDING THE USE OF THIS PRODUCT, MRL'S AND RECOMMENDED WITHHOLDING PERIODS.

- Handle with care.
- Harmful if inhaled or swallowed.
- Irritant of eyes, nose, throat and skin.
- Toxic to fish and other aquatic life.
- Store away from food, feeds, seed, fertilizers and other agricultural chemicals.
- Store in a cool, dry, well-ventilated place in the original container, tightly closed and secured.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated area until spray deposit has dried unless wearing protective clothing.

Aerial application:

Notify all inhabitants in the immediate vicinity of the lands to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate water or adjacent areas.

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 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 against the remedy concerned, as well as by the method, time and accuracy of application. The registration 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 conditions, which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

PRECAUTIONS

- Avoid inhalation of the spray mist.
- Avoid contact of product with skin and eyes.
- Wear a face shield and rubber gloves when handling the concentrate and during mixing.

- Wash with soap and water after use or accidental skin contact.
- In case of eye contact, immediately flush the eyes with clean, cold water for 15 minutes, holding the eyelid(s) open. If irritation persists, seek medical advice.
- Wash contaminated clothes daily after use.
- Do not eat, drink or smoke whilst applying or mixing, or before washing hands and face or change of clothing.
- Prevent spray drift onto other crops, grazing, rivers, dams or areas not under treatment.
- Clean the spraying equipment directly after use and dispose of wash water where it will not contaminate food, grazing, boreholes, rivers or dams.
- **TRIPLE RINSE** empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow draining 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 a third of that of the container. Add the rinsing to the contents of the spray tank before destroying the container in the prescribed manner.
- Destroy the empty container by perforation and flattening and dispose of it in a safe way.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

RESISTANCE WARNING

MYCOBLOCK 250 SC is a group code 11 fungicide. Any fungus population may contain individuals naturally resistant to **MYCOBLOCK 250 SC** and other group code 11 fungicides. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly. These resistant fungi may not be controlled by **MYCOBLOCK 250 SC** 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 products from different fungicide group codes,
- integrate other control methods (chemical, cultural, biological) into disease control programmes.

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

Additional information with regard to Resistance Management Strategy:

- In order to prevent development of resistance to **MYCOBLOCK 250 SC** by pathogen populations, it is important that **MYCOBLOCK 250 SC** be alternated with registered fungicides from different chemical classes (i.e. not strobilurins, e.g. **Azoxystrobin**). This management strategy to prevent resistance should, however, not include fungicide products to which resistance has already developed in the past, or fungicides using the same mode of action.
- Always apply **MYCOBLOCK 250 SC** preventively as instructed in the recommendations table.
- Adhere to the dosage rates recommended on the label, do not reduce any dosage rate.
- Do not apply any other strobilurin, or related chemicals, in the same control programme with **MYCOBLOCK 250 SC**.

DIRECTIONS FOR USE: Only use as directed.

General information:

Azoxystrobin the active ingredient in **MYCOBLOCK 250 SC** belongs to the strobilurin group of fungicides. Apart from their fungicidal activity, research has shown that strobilurins can increase physiological effects, beneficial to the crop. During the development of **MYCOBLOCK 250 SC** locally, results have proven that the use of **MYCOBLOCK 250 SC**, can increase yields even in situations when low disease pressure is evident.

Compatibility:

- **MYCOBLOCK 250 SC** is compatible with **Cozeb 800 WP, D-Zole 250 EC, Volume 500 WDG, Oronil 720 SC, Flusilazim 375 SC, Difenoim 188 SC, Projetron 480 SC** and **Direct/Link**.
- The compatibility of **MYCOBLOCK 250 SC** in tank mixtures with other products has not been confirmed and can be influenced by the formulations involved, as well as the water quality.
- A physical compatibility test of all products involved is recommended, before application, as formulations can be altered and water quality can vary from area to area.

- Always consult the labels of products to be tank mixed with **MYCOBLOCK 250 SC**.

Mixing instructions:

Shake the container well before use. Replace cap directly after use.

- Fill the spray tank to half of the desired volume with clean water and ensure continuous agitation.
- Add the required quantity of **MYCOBLOCK 250 SC** to the mixing tank, while agitation is continued.
- Observe the following formulation mixing sequence if other products will be tank mixed with **MYCOBLOCK 250 SC**: buffer/acidifier; wettable powder or granules, suspension concentrate, emulsifiable concentrate, wetters. Pre-mix each product separately with a small volume of water before adding it to the spray tank. Thereafter fill the tank to the required volume with clean water while maintaining agitation, to ensure thorough mixing of the spray mixture, before application commences.
- Ensure continuous agitation during mixing and application.
- The spray mixture must be sprayed immediately after mixing. Prepared spray mixture must not be left in the spray tank for any length of time, e.g. overnight.

Application:

- Calibration: It is important to ensure that all application equipment is in good working order and correctly calibrated to apply the required spray volumes and dosage rate. Ensure good coverage by using the spray volumes as indicated.
- Rain: Repeat the application if rain falls within 2 hours after application.

Aerial application:

Aerial application of **MYCOBLOCK 250 SC** may only be done by a registered aerial application operator using a correctly calibrated, registered aircraft according to the instructions of SANS Code 10118 (Aerial Application of Agricultural Pesticides). Ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met:

- Volume: A spray mixture volume of 30 to 40 litres per hectare is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended above.
- Droplet coverage: 30 - 40 droplets per cm² must be recovered at the target area.
- Droplet size: A droplet spectrum with a VMD of 280 to 300 micron is recommended. Limit the production of fine droplets less than 150 micron (high drift and evaporation potential) to a minimum.
- Flying height: Maintain the height of the spray boom at 3 to 4 metres above the target. Do not spray when the aircraft is diving, climbing or when banking.
- Use suitable atomizing equipment that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product. The spraying system must produce a droplet spectrum with the lowest possible Relative Span.
- Position all the atomizers within the inner 60 to 75 % of the wingspan to prevent droplets from entering the wingtip vortices.
- The difference in temperature between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8°C.
- Stop spraying if the wind speed exceeds 15 km per hour.
- Stop spraying under turbulent, unstable and dry conditions during the heat of the day.
- Spraying under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions (relative humidity 80 % and above) may lead to the following:
 - a) reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage),
 - b) damage to other sensitive crops and/or non-target areas through drifting of the suspended spray cloud away from the target field.
- Ensure that the aerial spray operator knows exactly which fields to spray.

Obtain an assurance from the aerial spray operator that the above requirements will be met and that relevant data will be compiled in a logbook and kept for future reference.

CROP RECOMMENDATIONS

Maize: Refer to the “**APPLICATIONS RATES**” table where different program applications are recommended for specific disease scenarios.

Maize and Soybeans:

- **MYCOBLOCK 250 SC** in tank mix with **Projatron 480 SC** is only recommended for use on maize and soybeans intended for grazing.

Potatoes:

- Control of Early and Late blight - suggested spray programme (this suggested spray programme will also control Late blight (*Phytophthora infestans*):
 - Use **MYCOBLOCK 250 SC** in a preventive spray programme alternating with **Oronil 720 SC** at weekly intervals.
 - Commence with treatment before the disease is observed, or if weather conditions favour disease development. Good coverage of the crop during application is essential.
 - Apply 2 to 3 treatments with **Oronil 720 SC**, followed by a **MYCOBLOCK 250 SC** application one week later (early flowering stage). Continue with this weekly spray programme alternating with **Oronil 720 SC** up to a maximum of three **MYCOBLOCK 250 SC** treatments (refer to “**Resistance Management Strategy**” above). Thereafter, continue with the **Oronil 720 SC** applications throughout the rest of the growing season.
 - Do not use **MYCOBLOCK 250 SC** for more than 30 % (normally 3) of the total number of applications in the **MYCOBLOCK 250 SC / Oronil 720 SC** spray programme.
 - **Do not** apply **MYCOBLOCK 250 SC** as the first or last application in the spray programme.
 - Apply **Oronil 720 SC** at the recommended label rates.
- If the disease has already developed, do not apply **MYCOBLOCK 250 SC**. Rather apply an alternative registered systemic product in such a case. Apply at least two treatments using a systemic product such as **D-Zole 250 EC**. Thereafter, revert back to the recommended preventive spray programme.

APPLICATION RATES

Crop / Disease	Dosage rate	Remarks
<u>Potatoes</u> Early blight (<i>Alternaria solani</i>)	300 ml / ha	<u>Ground application:</u> Alternate with Oronil 720 SC as recommended, in not less than 500 litres water per hectare.
	330 ml / ha	<u>Aerial application:</u> Alternate with Oronil 720 SC as recommended, in 30 to 40 litres water per hectare.

Crop and Disease	Dosage rate	Remarks
<p>Sunflowers Rust (<i>Puccinia helianthi</i>)</p> <p>Alternaria leaf spot (<i>Alternaria</i> spp.)</p>	<p>400 ml per ha</p> <p>PLUS</p> <p>300 g per ha Volume 500 WDG</p> <p>PLUS</p> <p>50 ml / 100 l water Direct/Link</p> <hr/> <p>400 ml per ha</p> <p>PLUS</p> <p>2.0 kg per ha Cozeb 800 WP</p> <p>PLUS</p> <p>50 ml / 100 l water Direct/Link</p>	<p>Preventative application before flowering when conditions favour development of the diseases (temperatures of 25 to 27 °C with continuous damp weather over 3 to 4 days).</p> <p>Apply in 300 litres water per hectare and ensure even coverage throughout the entire plant.</p>
<p>Soybeans Soybean rust (<i>Phakopsora pachyrhizi</i>)</p>	<p>PROJETRON 480 SC IS RECOMMENDED IN AN INTEGRATED DISEASE MANAGEMENT PROGRAMME. IN ORDER TO ACHIEVE CONSISTENT AND RELIABLE DISEASE CONTROL, PREVENTIVE FUNGICIDE APPLICATIONS ARE CRITICALLY IMPORTANT.</p> <hr/> <p>300 ml / ha</p> <p>PLUS</p> <p>100 ml / ha Projetron 480 SC</p> <p>PLUS</p> <p>Direct/Link</p> <p><u>Ground application:</u> 50 ml / 100 l water (0.05 %)</p> <p><u>Aerial application:</u> 100 ml / 100 l water (0.1 %)</p>	<p>Apply the first application of the MYCOBLOCK 250 SC tank-mix at the onset of flowering before any disease symptoms are noticed. A second application of the MYCOBLOCK 250 SC tank-mix is recommended 3 to 4 weeks later. Under expected high disease pressure conditions, a 3-weekly spray interval is recommended.</p> <p><u>Ground application:</u> Apply as a full cover spray in 300 to 500 litres water per hectare.</p> <p><u>Aerial application:</u> Apply in 30 to 40 litres water per hectare. Refer to “Aerial application Instructions” above”.</p> <p>Consult the Projetron 480 SC labels for USE RESTRICTIONS, WARNINGS (including RESISTANCE WARNINGS), PRECAUTIONS and DIRECTIONS FOR USE.</p>

Crop and disease	Dosage rate ml / ha	Remarks
<p>Maize & Sweet Corn Grey leaf spot (<i>Cercospora zeae-maydis</i>)</p> <p>Northern leaf blight (<i>Exserohilum turcicum</i>)</p> <p>Rust (<i>Puccinia sorghi</i>)</p>	<p>PROJETRON 480 SC IS RECOMMENDED IN AN INTEGRATED DISEASE MANAGEMENT PROGRAMME. IN ORDER TO ACHIEVE CONSISTENT AND RELIABLE DISEASE CONTROL, PREVENTIVE FUNGICIDE APPLICATIONS ARE CRITICALLY IMPORTANT.</p> <p><u>Ground application</u> 400 ml / ha PLUS 50 ml / 100 l water Direct/Link</p> <p>OR</p> <p><u>Hand-held Spinning disc applicator and Aerial application:</u> 400 ml / ha PLUS 100 ml / 100 l water Direct/Link</p> <p>OR</p> <p>400 ml / ha PLUS 140ml / ha Projectron 480 SC PLUS Direct/Link</p> <p><u>Ground application:</u> 50 ml / 100 l water (0.05%) <u>Hand-held Spinning disc applicator and Aerial application:</u> 100 ml / 100 l water (0.1 %)</p> <p><u>Row Application:</u> 133 ml / 100 l water PLUS 100 ml / 100 l water Direct/Link</p> <p>OR</p> <p>135 ml / 100 l water PLUS 50 ml / 100 l water Projectron 480 SC PLUS Direct/Link 100 ml / 100 l water (0.1 %)</p>	<p>Apply the first application of MYCOBLOCK 250 SC at the 5 to 6 leaf stage before any disease symptoms are noticed.</p> <p>A second application of MYCOBLOCK 250 SC in combination with either D-Zole 250 EC, Flusilazim 375 SC or Difenoim 188 SC is recommended 3 weeks later.</p> <p>Under continued high disease pressure conditions, a third application with Flusilazim 375 SC is recommended, 3 to 4 weeks later.</p> <p>In certain areas/conditions, where low disease presence is expected, apply a single application of MYCOBLOCK 250 SC always in combination with either D-Zole 250 EC, Flusilazim 375 SC or Difenoim 188 SC at the 5 to 6 leaf stage. If extended disease control is required, revert back to the above mentioned, follow-up application of MYCOBLOCK 250 SC.</p> <p><u>Ground application:</u> Apply as a full cover spray in 300 to 500 litres water per hectare.</p> <p><u>Hand-held Spinning disk applicator:</u> Apply 50 to 70 litres water per hectare.</p> <p><u>Aerial application:</u> Apply in 30 to 40 litres water per hectare. Refer to “Aerial application Instructions” above”.</p> <p><u>Row application for low density plantings e.g. in the Free State and Western parts of RSA:</u> This dosage is based on an overall ground application of 400 ml per hectare, in 300 litres water per hectare. Apply, using a tandem fitting with two solid- or hollow cone nozzles, mounted on the boom above each row. Use sufficient water (not less than 100 litres per hectare), to ensure total coverage of the plants. The rates of the mentioned tank mix products applied in combination with MYCOBLOCK 250 SC as recommended above, must also be adjusted according to the water volume DO NOT exceed two (2) applications of MYCOBLOCK 250 SC per season. Never apply MYCOBLOCK 250 SC alone when only one application of MYCOBLOCK 250 SC is envisaged per season. Always apply then MYCOBLOCK 250 SC in combination with the recommended products as mentioned.</p>

Consult the **Projetron 480 SC, D-Zole 250 EC, Cozeb 800 WP, Difenozim 188 SC, Oronil 720 SC, Volume 500 WDG, Flusilazim 375 SC** and **Direct/Link** labels for **USE RESTRICTIONS, WARNINGS (including RESISTANCE WARNINGS), PRECAUTIONS** and **DIRECTIONS FOR USE**.

The following products mentioned in this label can be replaced with the following equivalent products:

- **FLUSILAZIM 375 SC** (L 8400 / W 130493) = **SPARTA 375 SC** (L 8403 / N-AR 1340) = **FLUSICARB 375 SC** (L 9409) (**Flusilazole 250 g/l + Carbendazim 125 g/l**),
- **D-ZOLE 250 EC** (L 7923) = **SCOPE 250 EC** (L 7942 / N-AR 1098) = **DIFEN 250 EC** (L 8535) (**Difenoconazole**),
- **COZEB 800 WP** (L 7098) = **VILLA UNIZEB 800 WP** (L 8056 / N-AR 1091) = **NEWZEB 800 WP** (L 8167) (**Mancozeb**),
- **DIFENOZIM 188 SC** (L 7924 / N-AR 1341) = **ARIA 188 SC** (L 7943) (**Carbendazim 125 g/l + Difenoconazole 62.5 g/l**),
- **ORONIL 720 SC** (L 8431) = **MISSION 720 SC** (L 8432 / N-AR 1298) (**Chlorothalonil**),
- **VOLUME 500 WDG** (L 9261) = **CLOUD 500 WDG** (L 9260) (**Boscalid**),
- **DIRECT** (L 8680) = **LINK** (L 8675) = **SOLWET** (L 8679) and,
- **PROJETRON 480 SC** (L 10050) = **SANTANA 480 SC** (L 10049) (**Prothiocobnazole**).

SPARTA 375 SC, SCOPE 250 EC, ARIA 188 SC, VILLA UNIZEB 800 WP, CLOUD 500 WDG, MISSION 720 SC, SANTANA 480 SC, DIRECT and/en **LINK** are registered products of / is geregistreeerde produkte van
VILLA CROP PROTECTION (PTY) LTD.

FLUSILAZIM 375 SC, ORONIL 720 SC, D-ZOLE 250 EC, DIFENOZIM 188 SC, VOLUME 500 WDG, PROJETRON 480 SC and/en **COZEB 800 WP** are registered products of / is geregistreeerde produkte van
UNIVERSAL CROP PROTECTION (PTY) LTD.

FLUSICARB 375 SC, DIFEN 250 EC and/en **NEWZEB 800 WP** are registered products of / is geregistreeerde produkte van
CROPASURE (PTY) LTD.

SOLWET is a registered product of / is 'n geregistreeerde produk van
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