

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

SHAKE THE BOTTLE WELL BEFORE USE.

Fungicide



ACADEMY 250 SC

Reg. No. L 10034 Act/Wet No. 36 of/van 1947

2:10/10/2016- Aug2018

A suspension concentrate, systemic and translaminar action fungicide for the preventative control of diseases in crops as indicated.

'n Suspensie konsentraat, sistemiese en translaminêre aksie swamdoder vir die voorkomende beheer van siektes in gewasse soos aangedui.

ACTIVE INGREDIENT / AKTIEWE BESTANDEEL

picoxystrobin (strobilurin) **250 g/l** pikoksistrobien (strobilurien)

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



villa

Registration holder / Registrasiehouer:

Villa Crop Protection (Pty) Ltd.

Co. Reg. No. / Mpy. Reg. Nr. 1992/002474/07

PO Box / Posbus 10413, Aston Manor, 1630

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UN Number: 3082

Willow Set & Print 011 394-4486



HARMFUL
SKADELIK



GERUUKSAANWYINGS INGESLUIT

VERWYS NA BESONDERHEDE
GEDRUK OP HOUER/SAK

Date formulated:

Formuleringsdatum:

DIRECTIONS FOR USE ENCLOSED

REFER TO DETAILS PRINTED
ON CONTAINER/BAG

Batch number:

Lotnummer:

ACADEMY 250 SC

Reg. No. L 10034 Act/Wet No. 36 of/van 1947

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ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL:

picoxystrobin (strobilurin) / pikoksistrobien (strobilurien) 250 g/l

Registration holder / Registrasiehouer:

VILLA CROP PROTECTION (PTY) LTD.

Co. Reg. No.: 1992/002474/07 Mpy. Reg. Nr.

PO Box / Posbus 10413,

ASTON MANOR, 1630, Tel. (011) 396 2233

**WARNINGS****Withholding periods:**

Minimum time between the last application and harvest or feeding:	
Barley	50 days
Wheat	35 days
Wheat & Barley (Grazing)	35 days
Maize & Sweet Corn	28 days
Soybeans	56 days
Soybeans (Grazing)	28 days
Potatoes	7 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 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.

FIRST AID TREATMENT

- **Inhalation:** If product has been inhaled, remove the source of contamination or move victim to fresh air. Immediately obtain medical attention.
- **Skin contact:** Remove contaminated clothing, shoes and leather goods. Wash contaminated skin with plenty of soap and water. Seek medical attention if irritation persists. Contaminated clothing should be washed before re-use.
- **Eye contact:** Immediately flush eyes with a stream of clean gently flowing water for at least 15 minutes, holding the eyelid(s) open. Remove contact lenses, if present, after the first 5 minutes. In all cases of eye contamination it is a sensible precaution to seek medical advice.
- **Ingestion:** Rinse mouth thoroughly with water if person is alert. Have person drink plenty of water if able to swallow. Never give anything by mouth to an unconscious person. Do not induce vomiting, unless instructed to do so by a physician.

NOTE TO PHYSICIAN

There is no specific antidote available. Treat symptomatically and give supportive treatment.

RESISTANCE WARNING

ACADEMY 250 SC is a group code 11 fungicide. Any fungus population may contain individuals naturally resistant to **ACADEMY 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 **ACADEMY 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 minimise risk of small grain disease pathogens developing resistance against group code 11 fungicides, it is recommended to apply **ACADEMY 250 SC** in wheat and barley as tank mixtures with triazole fungicides (which has a different mode of action) like **Epox 125 SC**.
- Do not exceed two (2) **ACADEMY 250 SC** tank mixture treatments per season in wheat or barley.
- In order to prevent development of resistance to **ACADEMY 250 SC** by pathogen populations, it is important that **ACADEMY 250 SC** be alternated with registered fungicides from different chemical classes (i.e. not strobilurins). 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 **ACADEMY 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 **ACADEMY 250 SC**.

USE RESTRICTIONS

- **Soybeans ONLY:** Tank mixes of **ACADEMY 250 SC** and **Santana 480 SC** is only recommended for crops intended for grazing. Consult the **Santana 480 SC** label for **USE RESTRICTIONS, WARNINGS (including RESISTANCE WARNINGS), PRECAUTIONS** and **DIRECTIONS FOR USE**.

DIRECTIONS FOR USE: Only use as directed.**Compatibility:**

- **ACADEMY 250 SC** is compatible with **Epox 125 SC, Santana 480 SC, Mission 720 SC, Sparta 375 SC** and **Link**.
- The compatibility of **ACADEMY 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 **ACADEMY 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 **ACADEMY 250 SC** to the mixing tank, while agitation is continued.
- Observe the following formulation mixing sequence if other products will be tank mixed with **ACADEMY 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 two (2) hours after application.

Aerial application:

Aerial application of **ACADEMY 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.

APPLICATION RATES

Crop / Disease	Dosage rate	Remarks
Wheat Brown rust (<i>Puccinia triticina</i>) Stem rust (<i>Puccinia graminis</i>) Speckled leaf and Glume blotch (<i>Septoria</i> spp.) Powdery mildew (<i>Blumeria graminis tritici</i>)	400 ml PLUS 800 ml EpoX 125 SC PLUS Link <u>Ground application:</u> 50 ml / 100 l water (0.05 % Link). <u>Aerial application:</u> 100 ml / 100 l water (0.1 % Link) OR 400 ml PLUS 150 ml Santana 480 SC PLUS Link <u>Ground application:</u> 50 ml / 100 l water (0.05 % Link). <u>Aerial application:</u> 100 ml / 100 l water (0.1 % Link)	The first product application must be applied STRICTLY PREVENTATIVE before any symptoms are noticed. Apply the first application between the 5 and 7 leaf stage . Apply a second application 3 to 4 weeks later if disease pressure is evident (normally at flag leaf stage before appearance of the head). <u>Ground application:</u> Apply in 200 to 300 litres of water per hectare. <u>Aerial application:</u> Apply in 30 to 40 litres of water per hectare. Refer to “ Aerial application Instructions ” above.
Barley Net blotch (<i>Pyrenophora teres</i>) Leaf spot (<i>Rhynchosporium secalis</i>) Leaf rust (<i>Puccinia hordei</i>) Powdery mildew (<i>Blumeria graminis</i>)	400 ml PLUS 800 ml EpoX 125 SC PLUS Link <u>Ground application:</u> 50 ml / 100 l water (0.05 % Link). <u>Aerial application:</u> 100 ml / 100 l water (0.1 % Link) OR 400 ml PLUS 150 ml Santana 480 SC PLUS Link <u>Ground application:</u> 50 ml / 100 l water (0.05 % Link). <u>Aerial application:</u> 100 ml / 100 l water (0.1 % Link)	The first product application must be applied STRICTLY PREVENTATIVE before any symptoms are noticed. Apply the first application NOT LATER than the 7 leaf stage. Apply a second application 3 to 4 weeks later if disease pressure is evident (normally at flag leaf stage before appearance of the head). <u>Ground application:</u> Apply in 200 to 400 litres of water per hectare. <u>Aerial application:</u> Apply in 30 to 40 litres of water per hectare. Refer to “ Aerial application Instructions ” above”.

Crop / Disease	Dosage rate	Remarks
<p>Maize & Sweet Corn Grey leaf spot (<i>Cercospora zea-maydis</i>)</p> <p>Northern leaf blight (<i>Exserohilum turcicum</i>)</p> <p>Rust (<i>Puccinia sorghi</i>)</p>	<p>ACADEMY 250 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>400 ml / ha PLUS 800 ml / ha Epox 125 SC</p> <p>PLUS</p> <p>Link</p> <p><u>Ground application:</u> 50 ml / 100 l water (0.05 %)</p> <p><u>Hand-held Spinning disc applicator and Aerial application:</u> 100 ml / 100 l water (0.1 %)</p> <hr/> <p>Row application: 135 ml / 100 l water</p> <p>PLUS</p> <p>270 ml / 100 l water Epox 125 SC</p> <p>PLUS</p> <p>Link 100 ml / 100 l water (0.1 %)</p>	<p>Apply the first application of the ACADEMY 250 SC tank-mix at the 5 to 6 leaf stage before any disease symptoms are noticed. A second application of the ACADEMY 250 SC tank-mix is recommended 3 weeks later. 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 the ACADEMY 250 SC tank-mix at the 5 to 6 leaf stage. If extended disease control is required, revert back to the above mentioned, follow-up application of the ACADEMY 250 SC tank-mix.</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 disc 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>Consult the Epox 125 SC label for USE RESTRICTIONS, WARNINGS (including RESISTANCE WARNINGS), PRECAUTIONS and DIRECTIONS FOR USE.</p> <hr/> <p><u>Row application:</u> For low density plantings e.g. in the Free State and Western parts of RSA.</p> <p>This dosage is based on an overall ground application of 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.</p> <p>Consult the Epox 125 SC label for USE RESTRICTIONS, WARNINGS (including RESISTANCE WARNINGS), PRECAUTIONS and DIRECTIONS FOR USE.</p>

Crop / Disease	Dosage rate	Remarks
<p>Soybeans Soybean rust (<i>Phakopsora pachyrhizi</i>)</p>	<p>ACADEMY 250 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>600 ml / ha Epox 125 SC</p> <p>PLUS</p> <p>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>OR</p> <p>300 ml / ha</p> <p>PLUS</p> <p>100 ml / ha Santana 480 SC</p> <p>PLUS</p> <p>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 ACADEMY 250 SC tank-mix at the onset of flowering before any disease symptoms are noticed.</p> <p>A second application of the ACADEMY 250 SC tank-mix is recommended 3 to 4 weeks later.</p> <p>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 Epox 125 SC and Santana 480 SC labels for USE RESTRICTIONS, WARNINGS (including RESISTANCE WARNINGS), PRECAUTIONS and DIRECTIONS FOR USE.</p>

Crop / Disease	Dosage rate	Remarks
Potatoes Early blight (<i>Alternaria solani</i>)	<p>ACADEMY 250 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>300 ml / ha</p> <p>PLUS</p> <p>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>Start with a weekly program application one week after the potatoes have emerged. Use alternative effective fungicides as registered on potatoes up to week 5 in a 7 day spray interval. Apply ACADEMY 250 SC at 14 day intervals during week 5, 7 and 9 alternated with either Mancozeb containing fungicides or Mission 720 SC during week 6, 8 and 10. Revert back to alternative effective fungicides in a 7-day spray program until such time when disease control is not required anymore.</p> <p>DO NOT apply more than three (3) ACADEMY 250 SC applications per growing season.</p> <p><u>Ground application:</u> At least 500 litres water per hectare.</p> <p><u>Aerial application:</u> 30 to 40 litres water per hectare.</p>

Consult the **Epox 125 SC, Sparta 375 SC, Santana 480 SC, Mission 720 SC** and **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:

- **EPOX 125 SC** (L 8147) = **EPOXICONAZOLE 125 SC** (L 8148),
- **MISSION 720 SC** (L 8432 / N-AR 1298) = **ORONIL 720 SC** (L 8431) (**Chlorothalonil**),
- **SANTANA 480 SC** (L 10049) = **PROJETRON 480 SC** (L 10050) (**Prothioconazole**),
- **SPARTA 375 SC** (L 8403 / N-AR 1340) = **FLUSILAZIM 375 SC** (L 8400 / W 130493) = **FLUSICARB 375 SC** (L 9409) (**Flusilazole + Carbendazim**) and
- **LINK** (L 8675) = **DIRECT** (L 8680) = **SOLWET** (L 8679).

EPOX 125 SC, MISSION 720 SC, SPARTA 375 SC, SANTANA 480 SC, DIRECT and/en **LINK** are registered products of / is geregistreerde produkte van **VILLA CROP PROTECTION (PTY) LTD.**

EPOXICONAZOLE 125 SC, ORONIL 720 SC, PROJETRON 480 SC and/en **FLUSILAZIM 375 SC** are registered product of / is geregistreerde produkte van **UNIVERSAL CROP PROTECTION (PTY) LTD.**

SOLWET is a registered product of / is 'n geregistreerde produk van **SPECTRUM RESEARCH SERVICES.**

FLUSICARB 375 SC is a registered product of / is 'n geregistreerde produk van **CROPASURE (Pty) Ltd.**