

READ THE LABEL BEFORE USE. KEEP OUT OF REACH OF CHILDREN AND ANIMALS. SHAKE THE BOTTLE WELL BEFORE USE



Fungicide

SANTANA 480 SC

Reg. No. L 10049 Act No. 36 of 1947

7: 10/10/2024 – Oct2024

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

ACTIVE INGREDIENT

prothioconazole (triazole) 480 g/l

GROUP

3

FUNGICIDE



WARNING

Hazard Statements:

May be harmful if swallowed.
May be harmful in contact with skin.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

Avoid release to the environment.
Collect Spillage.
Dispose of contents to suitable landfill in accordance with local regulations.

DIRECTIONS FOR USE ENCLOSED
Batch Number: Expiry/Date:
Date of Manufacture:



villa

UN Number: 3082

Registration holder: VILLA CROP PROTECTION (PTY) LTD.
Co. Reg. No. 1992/002474/07
65 Botes Road, Glen Marais, Kempton Park, 1619
Tel. (011) 396 2233
Website: www.villacrop.co.za

IN CASE OF POISONING / 24 HR EMERGENCY NUMBERS:
Griffon Poison Information Centre (National): +27 82 446 8946
Poison Information Helpline (National): +27 861 555 777
24 Hr Transport / Spill emergency no: (Hazcall24) +27 86 044 4411
(Client: Villa Crop Protection)

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FRAC FUNGICIDE GROUP CODE: 3

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WARNINGS**Withholding periods:**

Minimum time between the last application and harvest or feeding:	
Barley	42 days
Canola	28 days
Wheat	42 days
Maize & Sweetcorn	28 days
Maize (Grazing)	28 days
Soybeans	28 days
Soybeans (Grazing)	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.

Hazard statements:

May be harmful if swallowed.
May be harmful in contact with skin.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

- Handle with care.
- Do not spray over or allow drift to contaminate adjacent areas or crops.
- 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**Precautionary statements:**

Avoid release to the environment.
IF SWALLOWED: Get medical help.
IF ON SKIN: Get medical help.
Collect Spillage.
Dispose of contents to suitable landfill in accordance with local regulations.

- Avoid inhalation of the spray mist.
- Wear a face shield and rubber gloves when handling the concentrate and during mixing.
- 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 THE EMPTY CONTAINER AS FOLLOWS:** Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three (3) times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler (www.croplife.co.za). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.
- Prevent contamination of food, feeds, drinking water and eating utensils.

SYMPTOMS OF HUMAN POISONING

Prolonged or repeated exposure may cause eye damage, headaches and dizziness. Some individuals may develop an allergic response.

FIRST AID TREATMENT

- **Inhalation:** Remove the patient from the source of contamination to fresh air. If breathing has stopped, perform artificial respiration and administer oxygen. Avoid mouth-to-mouth resuscitation. Keep person warm and at rest. Treat symptomatically and supportively as and when required. **Seek medical advice immediately.**
- **Skin contact:** Remove contaminated clothing, shoes and leather goods immediately. Gently wipe off excess chemical. Wash skin gently and thoroughly with non-abrasive soap or mild detergent and large amounts of water until no evidence of chemical remains (approximately 15 to 20 minutes). Seek medical advice if necessary.
- **Eye contact:** Flush eyes immediately with large amounts of gently flowing cold water or normal saline solution, occasionally lifting upper and lower lids, until no evidence of chemical remains (approximately 15 to 20 minutes). If irritation persists, get medical attention.
- **Ingestion:** Have victim rinse mouth thoroughly with water. **Do not induce vomiting. Seek medical advice immediately.** If the person is alert and respiration is not depressed, give large quantity of water to drink. Never give anything by mouth to an unconscious person. Establish and maintain airway. Treat respiratory difficulty with artificial respiration and oxygen. Qualified medical personnel should perform administration of gastric lavage or oxygen.

NOTE TO PHYSICIAN

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

Relevant hazardous components	
Prothioconazole	48%
Sodium dodecylbenzene sulfonate	<10%
Ethylene glycol	<10%

NOTE: The ingredients listed above contribute to the overall GHS classification, the remaining ingredients do not have to be listed according to the South African Regulations for Hazardous Chemical Agents 2021, Regulation 14(b).

In case of poisoning, call the following number: +27 82 446 8946 (Griffon Poison Information Centre) or +27 861 555 777 (Poison Information Helpline).

In case of a chemical spill call the following 24 Hr Transport / Spill emergency number: +27 86 044 4411 (Hazcall24 / Client: Villa Crop Protection).

RESISTANCE WARNING

SANTANA 480 SC is a group code 3 fungicide. Any fungus population may contain individuals naturally resistant to **SANTANA 480 SC** and other group code 3 fungicides. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly. These resistant fungi may not be controlled by **SANTANA 480 SC** or any other group code 3 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.

Mode of Action:

SANTANA 480 SC contains prothioconazole which is a sterol demethylation inhibitor that affects ergosterol biosynthesis in fungi. This active move systemically in treated plants and provides protective and curative protection.

USE RESTRICTIONS

Canola

Do not apply more than two (2) treatments of **SANTANA 480 SC** to a field per season.

DIRECTIONS FOR USE: Only use as directed.

NOTICE TO USER:

Read the entire label before application. This agricultural remedy is to be used only in accordance with the instructions on the label. It is an offence under the Act to use this agricultural remedy for any purpose in a manner contrary with the directions on the label.

Compatibility:

- **SANTANA 480 SC** is compatible with **Academy 250 SC, Mycoblock 250 SC (L 8591) (Azoxystrobin), Potential 500 EC** and **Link**.
- The compatibility of **SANTANA 480 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.
- If the products are physically compatible, this does **NOT** imply that they will be biologically compatible (effective against the target pathogen), thus the registration holder will not take responsibility for ineffective control in these scenarios.
- Always consult the labels of products to be tank mixed with **SANTANA 480 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 **SANTANA 480 SC** to the mixing tank, while agitation is continued.
- Observe the following formulation mixing sequence if other products will be tank mixed with **SANTANA 480 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.

Post Spray Equipment Cleaning

It is essential to rinse the spray tank and all hoses with a 0.1 % solution of either calcium chloride or ammonium hydroxide or the recommended rate of **Protank® liquid cleaner** according to the product label. Allow this solution to stand in the spray equipment for 15 minutes; empty the spray equipment; repeat the rinsing with a 0.1 % solution of calcium chloride or ammonium hydroxide for 15 minutes; rinse all equipment with water. Nozzles and fitters must be cleaned individually. Rinse water and solution should be drained in a cesspool or drain where it will not contaminate any water source.

Aerial application:

Aerial application of **SANTANA 480 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
Barley		
Net blotch (<i>Pyrenophora teres</i>)	SANTANA 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.	
Leaf spot (<i>Rhynchosporium secalis</i>)	SANTANA 480 SC has been tested in combination with a number of tank mix partners as mentioned below. The tank mix partner (s) selected should be based on the history of disease pressure in an area, the susceptibility of the cultivar as well as the expected weather conditions which may be conducive to the development of certain pathogens over others.	
Leaf rust (<i>Puccinia hordei</i>)		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). The first product application must be applied STRICTLY PREVENTATIVELY before any symptoms are noticed. <u>Ground application:</u> Apply in 200 to 400 litres of water per hectare or 2 litres of water per 100 m ² . <u>Aerial application:</u> Apply in 30 to 40 litres of water per hectare. Refer to “ Aerial application Instructions ” above.
Powdery mildew (<i>Blumeria graminis</i>)	150 ml / ha (7.5 ml / 10 ℓ water) PLUS Link <u>Ground application:</u> 50 ml / 100 ℓ water (5 ml / 10 ℓ water) (0.05 %) <u>Aerial application:</u> 100 ml / 100 ℓ water (10 ml / 10 ℓ water) (0.1 %)	NOTE Adequate disease control can be expected if SANTANA 480 SC is applied alone at 150 ml per hectare with the adjuvant Link if this application is part of a resistance management spray programme. It is not recommended to spray SANTANA 480 SC and Link without the addition of Academy 250 SC as the first application in a disease management programme when high disease pressure is expected or when climatic conditions are conducive to disease development. Apply the higher rates of SANTANA 480 SC (150 ml/ha) in a tank mixture with Academy 250 SC (400 ml/ha) under the following conditions:
	100 to 150 ml / ha (5 to 7.5 ml / 10 ℓ water) PLUS 300 to 400 ml / ha (15 to 20 ml / 10 ℓ water) Academy 250 SC PLUS Link <u>Ground application:</u> 50 ml / 100 ℓ water (5 ml / 10 ℓ water) (0.05 %) <u>Aerial application:</u> 100 ml / 100 ℓ water (10 ml / 10 ℓ water) (0.1 %)	<ul style="list-style-type: none"> • When high disease pressure is evident or when climatic conditions are conducive to disease development; • In areas where historically high disease incidences of net blotch and/or ramularia leaf spot are evident; • On barley cultivars that are known to be very prone to leaf and kernel diseases. <p>Consult the Academy 250 SC and Link labels for USE RESTRICTIONS, WARNINGS (including RESISTANCE WARNINGS), PRECAUTIONS and DIRECTIONS FOR USE.</p>

Crop / Disease	Dosage rate	Remarks
<p>Barley (Continued)</p>	<p>150 ml / ha (7.5 ml / 10 l water) PLUS 250 to 300 ml /ha (13 to 15 ml / 10 l water) Potential 500 EC PLUS Link <u>Ground application:</u> 50 ml / 100 l water (0.05 %) (5 ml / 10 l water) <u>Aerial application:</u> 100 ml / 100 l water (0.1%) (10 ml / 10 l water)</p>	<p><u>(Continued from previous page).</u></p> <p>Consult the Potential 500 EC and Link labels for USE RESTRICTIONS, WARNINGS (including RESISTANCE WARNINGS), PRECAUTIONS and DIRECTIONS FOR USE.</p> <p>DO NOT GRAZE CROPS TREATED WITH TANK MIXES CONTAINING POTENTIAL 500 EC.</p>
<p>Barley Ramularia leaf spot (<i>Ramularia collo-cygni</i>)</p>	<p>150 ml / ha (7.5 ml / 10 l water) PLUS Link <u>Ground application:</u> 50 ml / 100 l water (5 ml / 10 l water) (0.05 % Link) <u>Aerial application:</u> 100 ml / 100 l water (10 ml / 10 l water) (0.1 % Link)</p>	<p>For the control of Ramularia leaf spot, apply SANTANA 480 SC preventively as part of a programme application as follows:</p> <ul style="list-style-type: none"> • The programme should contain a total of three (3) spray applications including two (2) SANTANA 480 SC spray applications. • Apply the first application of the programme at stem elongation (BBCH 31 to 32), the second at flag leaf (BBCH 39) and the third and last application at the booting stage (BBCH 45). • SANTANA 480 SC can be applied as a solo treatment. <p><u>Ground application:</u> Apply in 200 to 400 litres of water per hectare or 2 litres of water per 100 m².</p> <p><u>Aerial application:</u> Apply in 30 to 40 litres of water per hectare. Refer to “Aerial application Instructions” above.</p>

Crop / Disease	Dosage rate	Remarks
<p>Canola</p> <p>Blackleg (<i>Leptosphaeria maculans</i>)</p>	<p>SANTANA 480 SC IS RECOMMENDED IN AN INTEGRATED DISEASE MANAGEMENT PROGRAMME. Do not apply more than two (2) applications of SANTANA 480 SC per season.</p> <p>200 ml / ha (20 ml / 10 l water)</p> <p>PLUS</p> <p>Link</p> <p><u>Ground application:</u> 50 ml / 100 l water (0.05 %) (5 ml / 10 l water)</p> <p><u>Aerial application:</u> 100 ml / 100 l water (0.1%) (10 ml / 10 l water)</p>	<p>Apply the first application not later than the 4 to 6 leaf stage (BBCH 14 to 16). Apply a second application at green bud stage (BBCH 51).</p> <p>The first product application must be applied STRICTLY PREVENTATIVELY before any symptoms are noticed.</p> <p><u>Ground application:</u> Apply in 100 to 300 litres of water per hectare or 1 litre of water per 100 m². Ensure full coverage of the whole plant. Water volume/hectare depends on the growth stage and density of the canopy.</p> <p><u>Aerial application:</u> Apply in 30 to 40 litres of water per hectare. Refer to “Aerial application Instructions” above”.</p> <p>Refer to WARNINGS (including RESISTANCE WARNINGS), PRECAUTIONS and DIRECTIONS FOR USE.</p>
<p>Sclerotinia stem rot (<i>Sclerotinia sclerotiorum</i>)</p>	<p>200 ml / ha (20 ml / 10 l water)</p> <p>PLUS</p> <p>Link</p> <p><u>Ground application:</u> 50 ml / 100 l water (0.05 %) (5 ml / 10 l water)</p> <p><u>Aerial application:</u> 100 ml / 100 l water (0.1%) (10 ml / 10 l water)</p>	<p>Apply one preventive application at 20 % to 30 % flowering (BBCH 62 to 63) of the crop.</p> <p><u>Ground application:</u> Apply in 100 to 300 litres of water per hectare 1 litre of water per 100 m². Ensure full coverage of the whole plant. Water volume/hectare depends on the growth stage and density of the canopy.</p> <p><u>Aerial application:</u> Apply in 30 to 40 litres of water per hectare. Refer to “Aerial application Instructions” above”.</p> <p>Refer to WARNINGS (including RESISTANCE WARNINGS), PRECAUTIONS and DIRECTIONS FOR USE.</p>

Crop / Disease	Dosage rate	Remarks
<p>Maize & Sweetcorn</p> <p>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>SANTANA 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>140 ml / ha (5 ml / 10 l water)</p> <p>PLUS</p> <p>400 ml / ha (13.5 ml / 10 l water)</p> <p>Academy 250 SC PLUS Link</p> <p><u>Ground application:</u> 50 ml / 100 l water (0.05%) (5 ml / 10 l water)</p> <p><u>Hand-held Spinning disc applicator and Aerial application:</u> 100 ml / 100 l water (0.1 %) (10 ml / 10 l water)</p> <p>OR</p> <p>140 ml / ha (5 ml / 10 l water)</p> <p>PLUS</p> <p>400 ml / ha (13.5 ml / 10 l water)</p> <p>Mycoblock 250 SC PLUS Link</p> <p><u>Ground application:</u> 50 ml / 100 l water (0.05 %) (5 ml / 10 l water)</p> <p><u>Hand-held Spinning disc applicator and Aerial application:</u> 100 ml / 100 l water (0.1 %) (10 ml / 10 l water)</p> <p>OR</p> <p>140 ml / ha (5 ml / 10 l water)</p> <p>PLUS Link</p> <p><u>Ground application:</u> 50 ml / 100 l water (0.05%) (5 ml / 10 l water)</p> <p><u>Hand-held Spinning disc applicator and Aerial application:</u> 100 ml / 100 l water (0.1 %) (10 ml / 10 l water)</p>	<p>Apply the first application of the SANTANA 480 SC tank-mix at the 5 to 6 leaf stage before any disease symptoms are noticed.</p> <p>A second application of the SANTANA 480 SC tank-mix or solo SANTANA 480 SC with Link is recommended three (3) weeks later.</p> <p>Under continued high disease pressure conditions, a third application with Sparta 375 SC or solo SANTANA 480 SC with Link 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 SANTANA 480 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 SANTANA 480 SC tank-mix or solo application of SANTANA 480 SC with Link.</p> <p><u>Ground application:</u> Apply as a full cover spray in 300 to 500 litres water per hectare or 3 litres of water per 100 m².</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>Consult the Academy 250 SC and Mycoblock 250 SC labels for USE RESTRICTIONS, WARNINGS (including RESISTANCE WARNINGS), PRECAUTIONS and DIRECTIONS FOR USE.</p> <p>NOTE Adequate disease control can be expected if SANTANA 480 SC is applied alone at 140 ml per hectare with the adjuvant Link if this application is part of a RESISTANCE MANAGEMENT spray programme.</p> <p>It is NOT recommended to spray SANTANA 480 SC and Link without the addition of Academy 250 SC or Mycoblock 250 SC as the first application in a disease management programme, when high disease pressure is expected or when climatic conditions are conducive to disease development.</p>

Crop / Disease	Dosage rate	Remarks
<p><u>Maize & Sweetcorn</u></p> <p>(Continued)</p>	<p><u>Row application:</u> 50 ml / 100 l water</p> <p>PLUS 135 ml / 100 l water</p> <p>Academy 250 SC PLUS Link 100 ml / 100 l water (0.1 %) (5 ml / 10 l water)</p> <p>OR</p> <p>50 ml / 100 l water</p> <p>PLUS 135 ml / 100 l water</p> <p>Mycoblock 250 SC PLUS Link 100 ml / 100 l water (0.1 %) (10 ml / 10 l water)</p> <p>OR</p> <p>140 ml / ha (5 ml / 10 l water)</p> <p>PLUS Link</p> <p><u>Ground application:</u> 50 ml / 100 l water (0.05%) (5 ml / 10 l water)</p> <p><u>Hand-held Spinning disc applicator and Aerial application:</u> 100 ml / 100 l water (0.1 %) (10 ml / 10 l water)</p>	<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 Academy 250 SC and Mycoblock 250 SC labels for USE RESTRICTIONS, WARNINGS (including RESISTANCE WARNINGS), PRECAUTIONS and DIRECTIONS FOR USE.</p> <p>NOTE Adequate disease control can be expected if SANTANA 480 SC is applied alone at 50 ml per 100 litres water with the adjuvant Link if this application is part of a RESISTANCE MANAGEMENT spray programme.</p> <p>It is not recommended to spray SANTANA 480 SC and Link without the addition of Academy 250 SC or Mycoblock 250 SC as the first application in a disease management programme when high disease pressure is expected or when climatic conditions are conducive to disease development.</p>
<p><u>Lawns and Turf</u></p> <p>Dollar spot (<i>Sclerotinia</i> spp.)</p> <p>Fading out (<i>Helminthosporium</i> spp.)</p> <p>Brown patch (<i>Rhizoctonia</i> spp.)</p>	<p>1.0 l / ha (350 ml / 100 l water) (35 ml / 10 l water)</p> <hr/> <p>1.0 l / ha (520 ml / 100 l water) (52 ml / 10 l water)</p>	<p><u>Preventive treatment:</u> Commence with applications when conditions are conducive for development of the diseases. Apply in at least 300 litres water per hectare or 10 litres spray mixture per 100 m² at 7 to 10-day intervals.</p> <p><u>Curative treatment:</u> Apply in at least 300 litres water per hectare or 10 litres spray mixture per 100 m², twice within 7 days after appearance of the disease. Thereafter return to the preventive programme as above.</p>

Crop / Disease	Dosage rate	Remarks
<p>Soybeans</p> <p>Soybean rust (<i>Phakopsora pachyrhizi</i>)</p>	<p>SANTANA 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>100 ml / ha (3.5 ml / 10 l water)</p> <p>PLUS</p> <p>300 ml / ha (10 ml / 10 l water)</p> <p>Academy 250 SC PLUS Link <u>Ground application:</u> 50 ml / 100 l water (0.05 %) (5 ml / 10 l water)</p> <p><u>Aerial application:</u> 100 ml / 100 l water (0.1 %) (10 ml / 10 l water)</p> <p>OR</p> <p>100 ml / ha (3.5 ml / 10 l water)</p> <p>PLUS</p> <p>300 ml / ha (10 ml / 10 l water)</p> <p>Mycoblock 250 SC PLUS Link <u>Ground application:</u> 50 ml / 100 l water (0.05 %) (5 ml / 10 l water)</p> <p><u>Aerial application:</u> 100 ml / 100 l water (0.1 %) (10 ml / 10 l water)</p>	<p>Apply the first application of the SANTANA 480 SC tank-mix at the onset of flowering before any disease symptoms are noticed.</p> <p>A second application of the SANTANA 480 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 or 3 litres of water per 100 m².</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 Academy 250 SC and Mycoblock 250 SC labels for USE RESTRICTIONS, WARNINGS (including RESISTANCE WARNINGS), PRECAUTIONS and DIRECTIONS FOR USE.</p>

Crop / Disease	Dosage rate	Remarks
<p>Wheat</p> <p>Brown rust (<i>Puccinia triticina</i>)</p> <p>Stem rust (<i>Puccinia graminis</i>)</p> <p>Speckled leaf and Glume blotch (<i>Septoria</i> spp.)</p> <p>Powdery mildew (<i>Blumeria graminis tritici</i>)</p> <p>Yellow rust (<i>Puccinia striiformis</i>)</p>	<p>SANTANA 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>SANTANA 480 SC has been tested in combination with a number of tank mix partners as mentioned below. The tank mix partner (s) selected should be based on the history of disease pressure in an area, the susceptibility of the cultivar as well as the expected weather conditions which may be conducive to the development of certain pathogens over others.</p> <hr/> <p>150 ml / ha (7.5 ml / 10 l water)</p> <p>PLUS Link</p> <p><u>Ground application:</u> 50 ml / 100 l water (0.05 %) (5 ml / 10 l water)</p> <p><u>Aerial application:</u> 100 ml / 100 l water (0.1%) (10 ml / 10 l water)</p> <hr/> <p>100 to 150 ml / ha (5 to 7.5 ml / 10 l water)</p> <p>PLUS 300 to 400 ml / ha (15 to 20 ml / 10 l water)</p> <p>Academy 250 SC PLUS Link</p> <p><u>Ground application:</u> 50 ml / 100 l water (0.05 %) (5 ml / 10 l water)</p> <p><u>Aerial application:</u> 100 ml / 100 l water (0.1%) (10 ml / 10 l water)</p>	<p>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). The first product application must be applied STRICTLY PREVENTATIVELY, before any symptoms are noticed.</p> <p>Apply the higher rates of SANTANA 480 SC (150 ml/ha) in a tank mixture with Academy 250 SC (400 ml/ha) under the following conditions:</p> <ul style="list-style-type: none"> When high disease pressure is evident or when climatic conditions are conducive to disease development. On cultivars that are known to be very prone to leaf and kernel diseases. <p><u>Ground application:</u> Apply in 200 to 300 litres of water per hectare 2 litres of water per 100 m².</p> <p><u>Aerial application:</u> Apply in 30 to 40 litres of water per hectare. Refer to “Aerial application Instructions” above.</p> <p>NOTE Adequate disease control can be expected if SANTANA 480 SC is applied alone at 150 ml per hectare with the adjuvant Link if this application is part of a resistance management spray programme. It is not recommended to spray SANTANA 480 SC and Link without the addition of Academy 250 SC as the first application in a disease management programme when high disease pressure is expected or when climatic conditions are conducive to disease development.</p> <p>Consult the Academy 250 SC and Link labels for USE RESTRICTIONS, WARNINGS (including RESISTANCE WARNINGS), PRECAUTIONS and DIRECTIONS FOR USE.</p>

Crop / Disease	Dosage rate	Remarks
Wheat (Continued)	<p>150 ml / ha (7.5 ml / 10 ℓ water)</p> <p>PLUS</p> <p>300 to 375 ml /ha Potential 500 EC (15 to 19 ml / 10 ℓ water)</p> <p>PLUS Link</p> <p><u>Ground application:</u> 50 ml / 100 ℓ water (0.05 %) (5 ml / 10 ℓ water)</p> <p><u>Aerial application:</u> 100 ml / 100 ℓ water (0.1%) (10 ml / 10 ℓ water)</p>	<p>Consult the Potential 500 EC and Link labels for USE RESTRICTIONS, WARNINGS (including RESISTANCE WARNINGS), PRECAUTIONS and DIRECTIONS FOR USE.</p> <p>DO NOT GRAZE CROPS TREATED WITH TANK MIXES CONTAINING POTENTIAL 500 EC.</p>

Consult the **Academy 250 SC, Mycoblock 250 SC, Sparta 375 SC, Potential 500 EC** 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:

- **MYCOBLOCK 250 SC** (L 8591) = **FUNGAWAY® 250 SC** (L 8590 / N-AR 1225) (**azoxystrobin**),
- **ACADEMY 250 SC** (L 10034) = **FACULTY 250 SC** (L 10032) (**Picoxystrobin**),
- **SPARTA 375 SC** (L 8403 / N-AR 1340) = **FLUSILAZIM 375 SC** (L 8400 / W 130493) **Flusilazole + Carbendazim**,
- **POTENTIAL 500 EC** (L 9161) = **FLOURISH 500 EC** (L 9164) (**Spiroxamine**) and
- **LINK** (L 8675) = **DIRECT** (L 8680)

FUNGAWAY® 250 SC, ACADEMY 250 SC, SPARTA 375 SC, DIRECT, LINK and **POTENTIAL 500 EC** are registered products of **VILLA CROP PROTECTION (PTY) LTD.**

MYCOBLOCK 250 SC, FACULTY 250 SC, FLUSILAZIM 375 SC and **FLOURISH 500 EC** are registered products of **UNIVERSAL CROP PROTECTION (PTY) LTD.**

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