

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



Fungicide

PARADOX 125 SE

Reg. No. L 10216 Act No. 36 of 1947

4: 19/07/2023 – Aug2023

A suspo-emulsion fungicide for the control of diseases on crops as listed.

ACTIVE INGREDIENTS

pyraclostrobin (strobilurin)	62.5 g a.i./l
epoxiconazole (triazole)	62.5 g a.i./l

GROUP	11;3	FUNGICIDE
--------------	-------------	------------------

Hazard Statements:

May be fatal if swallowed and enters airways.
 Causes skin irritation.
 Causes serious eye damage.
 Suspected of causing cancer.
 May damage fertility or the unborn child.
 Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

Avoid release into the environment.
 Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.



DANGER



villa 

UN Number: 3082

Registration holder: UNIVERSAL CROP PROTECTION (PTY) LTD.
 Co. Reg. No. 1983/008184/07
 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: +27 82 446 8946
 24 HR Transport / Spill Emergency no: (Hazcall24) +27 86 044 4411
 (Client: Villa Crop Protection)

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

DIRECTIONS FOR USE ENCLOSED

Batch Number:

Date of Manufacture:

PARADOX 125 SE

Reg. No. L 10216 Act No. 36 of 1947

FRAC FUNGICIDE GROUP CODE: 11;3

ACTIVE INGREDIENTS:

pyraclostrobin (strobilurin)..... 62.5 g a.i/l

epoxiconazole (triazole)62.5 g a.i/l

Registration holder:

UNIVERSAL CROP PROTECTION (PTY) LTD.

Co. Reg. No. 1983/008184/07

65 Botes Road, Glen Marais, Kempton Park, 1619

Tel. (011) 396 2233

WARNINGS

Allow the following number of days between last application and harvest or grazing:	
Barley	70 days
Maize and sweetcorn	30 days
Wheat	60 days

IMPORTANT

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 fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye damage.
Suspected of causing cancer.
May damage fertility or the unborn child.
Very toxic to aquatic life with long lasting effects.

- Handle with care.
- Store in the original container tightly closed and in a dry, cool, well-ventilated area.
- Store away from foodstuffs, fertilisers and seeds.
- Keep out of reach from children, uninformed persons and animals.
- **PARADOX 125 SE** has been tested on some of the most important commercial cultivars without any phytotoxic effects. More susceptible cultivars may be released in the future, which need to be tested; for this apply **PARADOX 125 SE** to a limited test area before commercial applications are made.
- **Re-entry:** Do not enter treated area until spray deposit has dried unless wearing protective clothing.
- Do not graze treated barley, maize or sweetcorn or use as fodder.
- **Aerial application:** Notify all of the inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings. Do not spray over or allow the 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:**

Obtain, read and follow all safety instructions before use.
Wash hands thoroughly after handling. Do not touch eyes.
Avoid release to the environment.

Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
IF SWALLOWED: Get emergency medical help immediately.
IF ON SKIN: Wash with plenty of water and non-abrasive soap.
IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.
IF exposed or concerned, get medical advice.
Do NOT induce vomiting.
If skin irritation occurs: Get medical help.
Take off contaminated clothing and wash it before reuse.
Collect spillage.
Store locked up.
Dispose of contents/container to suitable landfill in accordance with local regulations.

- Do not inhale fumes or spray mist.
- Do not eat, drink or smoke while preparing or applying the spray mix, or before washing face and hands.
- Avoid spray drift onto other crops, grazing, rivers, dams and other areas not under treatment.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Clean equipment before and after use. Dispose of wash water where it will not contaminate crops, pastures, rivers, dams or other water sources.
- **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.

Relevant hazardous components	
Pyraclostrobin	62.5 g/l
Epoxiconazole	62.5 g/l
MEG	<100 g/l
Tersperse 4894	<50 g/l
Soprophor BSU	<30 g/l
Proxel GXL	<1 g/l
Acetophenone	<150 g/l
Solgard 150 ULN	<310 g/l
Acetic acid	<10 g/l

FIRST AID TREATMENT

- **General advice:** Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure and if symptoms persist consult a doctor. If exposed or concerned, get medical advice.
- **Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.
- **Skin:** Remove contaminated clothing and shoes. Wash skin gently and thoroughly with cold water and non-abrasive soap. **Obtain medical attention if irritation occurs.**
- **Eyes:** Flush eyes with clean water. Lift eyelids to facilitate irrigation. If present, remove contact lenses and continue rinsing. **Seek medical attention.**
- **Ingestion:** **Get emergency medical help immediately** or call a poison control centre for treatment advice. **Do not induce vomiting.** Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water.

NOTE TO PHYSICIAN

Symptomatic treatment (decontamination, vital functions) and supportive therapy as indicated, no known specific antidote.

MODE OF ACTION

PARADOX 125 SE is a contact, translaminar fungicide with protective and curative action. It functions by inhibiting C-14-demethylase which functions sterol biosynthesis. In addition, **PARADOX 125 SE** contains a quinone outside inhibitor which blocks electron transfer at the cytochrome bc1 complex thereby inhibiting mitochondrial respiration. Secondary effects of treatments with **PARADOX 125 SE** include increasing greenness of leaves, delaying senescence, improving tolerance against biotic and abiotic stresses, and improving the efficiency of use of water and nitrogen.

RESISTANCE MANAGEMENT

For resistance management, **PARADOX 125 SE** is a group code 3 and 11 fungicide. Any fungus population may contain individuals naturally resistant to **PARADOX 125 SE** and other group code 3 or 11 fungicides. The resistant individuals can eventually dominate the disease population if these fungicides are used repeatedly. These resistant fungi may not be controlled by **PARADOX 125 SE** or any other group code 3 and 11 fungicides. 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.
- Refer to individual product labels when alternating products or when using tank mixtures with registered products.
- Integrate other control methods (chemical, cultural, biological) into disease control programmes.
- Do not exceed two applications of **PARADOX 125 SE** per growing season.
- Do not reduce the recommended dose rate for treatments with **PARADOX 125 SE**.
- Do not use other DMI (triazole-) or QoL- fungicides or related fungicides in the same programme with **PARADOX 125 SE**.

Since the occurrence of resistance cannot be forecast, users are advised to keep treated crops under close observation. If treatment is not effective following the use of **PARADOX 125 SE** as recommended, a resistant strain may be present. If a resistant strain is positively identified, consideration should be given to prompt use of a fungicide with a different mode of action, for which there is no record of resistance to the relevant disease. Universal Crop Protection (Pty) Ltd will not accept any liability for performance failures in the event of a build-up of disease resistance resulting from inadequate resistance management practices as indicated on the label. For specific information on resistance management, contact the registration holder of this product or visit the FRAC website <http://www.frac.info/frac/index.html>.

USE RESTRICTIONS

- Do not apply **PARADOX 125 SE** to any crop or situation not mentioned in this label.
- Do not apply this product in combination or tank mixture with any other product or agricultural remedy which is not specifically listed on this label. Universal Crop Protection (Pty) Ltd accepts no responsibility for any negative effects experienced if the instructions on this label are not adhered to, unless a Villa Crop Protection (Pty) Ltd representative was consulted beforehand.

DIRECTIONS FOR USE: Use only as directed.

MIXING INSTRUCTIONS

Half fill the spray tank with clean water. Do not use brackish water. Measure the required amount of **PARADOX 125 SE** and premix this with at least 10 litres of water.

Whilst agitating, add this mixture to the spray water and continue filling the tank to the required volume.

Ensure the mixture is homogenous before application and agitate before and during 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 may only be done by a registered aerial application operator using a registered and correctly calibrated aircraft according to the instructions of SANS Code 10118 (Aerial Application of Agricultural Remedies). It is important to 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:

Equipment

- Use suitable atomising equipment that will produce the desired droplet size, as well as coverage of the target area, and will ensure the minimum loss of product through drift.
- The operator must use a nozzle set-up that will produce a droplet spectrum with the lowest possible relative span.
- All nozzles and atomisers should be positioned within the inner 60 to 75 % of the wingspan to prevent droplets from entering the wingtip vortices.

Application Parameters

- A minimum volume of 30 to 40 litres spray mixture per ha is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy, nor be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended.
- A droplet coverage of 50 to 70 droplets per cm² must be recovered at the target.
- A droplet spectrum with a VMD of 250 microns is recommended. Ensure that the production of fine droplets, with a VMD less than 150 microns, is restricted to a minimum.
- The height of the spray boom should be maintained at between 3 and 4 m above the target.
- Do not spray when the aircraft is in a climb, at the top of a turn, during a dive, or when banking.

Meteorological Conditions

- The difference between the wet and dry bulb readings, as determined using a whirling hygrometer, must not exceed 8 °C.
- Do not spray under turbulent, unstable conditions or during the heat of the day when rising thermals and downdraughts occur.
- Do not spray under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions (relative humidity 80% and above) as this may cause:
 - Reduced efficacy due to suspension and evaporation of small droplets in the air (which leads to inadequate coverage).
 - Damage to other sensitive crops and/or non-target areas through drifting of the spray cloud away from the targeted area.
- Do not spray when the wind speed exceeds 15 km per hour.

General

- Ensure that fields are accurately marked and that the aerial spray operator knows exactly which fields to spray. Indicate adjacent environmentally sensitive areas or sensitive neighbouring crops, beehives or water sources that could be affected by the pesticide.
- Obtain an assurance from the aerial spray operator that the above requirements will be met, and that the relevant data will be compiled in a logbook and kept for future reference.

All spray applications should be made with suitable equipment that is in good working order and regularly calibrated to ensure the correct coverage is achieved for the respective method of application.

RECOMMENDATIONS

Crop & Disease	Dosage Rate	Remarks
<u>Barley</u> Leaf rust (<i>Puccinia hordei</i>) Powdery mildew (<i>Erysiphe graminis</i>)	1.0 ℓ / ha	Apply as soon as infection is noticed. Repeat 3 to 4 weeks later if necessary. Ground application: 200 to 400 litres water per hectare. Aerial application: 30 to 40 litres water per hectare. Do not apply more than two applications of PARADOX 125 SE per growing season.
<u>Wheat</u> Leaf rust (<i>Puccinia triticina</i>) Powdery mildew (<i>Erysiphe graminis</i>)	1.0 ℓ / ha	Apply when infection is noticed but not later than flag leaf stage. Apply a second application under conditions of high disease pressure 3 to 5 weeks later. <u>Ground application:</u> 200 to 400 litres water per hectare. <u>Aerial application:</u> 30 to 40 litres water per hectare.

Crop & Disease	Dosage Rate	Remarks
<p>Maize and Sweetcorn</p> <p>Northern leaf blight (<i>Setosphaeria turnica</i>)</p> <p>Rust (<i>Puccinia sorghi</i>)</p> <p>Grey leaf spot (<i>Cercospora zeina</i>)</p>	<p>1.6 ℓ / ha</p>	<p>The use of PARADOX 125 SE in an integrated disease management programme is recommended. For reliable and consistent disease control, preventative spray programmes should be used.</p> <p>Apply the first application of PARADOX 125 SE at the 5 to 6 leaf stage (Growth stage 31, first node detectable). Apply the second application at growth stage 51 (tassel detectable). Under prolonged, high disease conditions, a third application 3 to 4 weeks later with an unrelated, registered fungicide, is recommended.</p> <p>In areas where low disease pressure is expected, apply the second application of PARADOX 125 SE at growth stage 35 (8 leaf stage). This growth stage is regarded as the last possible stage to enter fields with a conventional tractor. If longer disease control is required, apply the second application of PARADOX 125 SE at growth stage 51 as recommended above.</p> <p>The risk of high disease pressure is increased by the following factors:</p> <ul style="list-style-type: none"> • Extended favourable climatic conditions. • High density plantings. • Source of inoculum (often associated with minimum till practises) • Susceptibility of cultivars or varieties planted • Delayed initiation of preventative fungicide programme. <p>Apply as a full cover spray using well maintained and calibrated equipment. Ensure applicators deliver a fine and evenly distributed spray pattern.</p> <p><u>Ground application:</u> 150 to 300 litres water per hectare. <u>Back-pack sprayer with handheld boom:</u> at least 50 to 70 litres per hectare. <u>Aerial application:</u> 40 litres per hectare.</p>
	<p>550 ml / 100 ℓ water</p>	<p><u>Row application for low density plantings:</u> based on an overall ground application of 1.6 litres per hectare.</p> <p>PARADOX 125 SE in 300 litres per hectare. To ensure total coverage of plants use sufficient water (not less than 100 litres per hectare). Apply using a tandem fitting, with two (2) solid- or hollow nozzles mounted on the boom and positioned above each row.</p> <p>Do not apply more than two (2) applications of PARADOX 125 SE per growing season.</p>