DIRECTIONS FOR USE ENCLOSED

Fungicide



INDICATE 250 SC

Reg. No. L 9310 Act No. 36 of 1947 N-AR 1482 / W 130688

5:25/7/2022 - Aug2022

A suspension concentrate fungicide systemic action for the control of fungal diseases on crops as listed.

ACTIVE INGREDIENTS

azoxystrobin (strobilurin) epoxiconazole (triazole)

125 g/e 125 q/e

GROUP 3;11

FUNGICIDE



DANGER

Hazard Statements:

May cause an allergic skin reaction. May cause cancer.

May damage fertility or the unborn baby.

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

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



Co. Reg. No. 1983/008184/07 PO Box 801, Kempton Park, 1620 Tel. (011) 396 2233 Website: www.villacrop.co.za

24 HR EMERGENCY NUMBERS:

Griffon Poison Centre: +27 82 446 8946 24 HR Transport / Spill Emergency no: (Hazcall24) +27 86 044 4411 (Client: Villa Crop Protection)



Date of Manufacture:

INDICATE 250 SC

Reg. No. L 9310 / N-AR 1482 / W 130688 Act No. 36 of 1947

FRAC FUNGICIDE GROUP CODE: 3 + 11

ACTIVE INGREDIENTS:

azoxystrobin (strobilurin) 125 g/ ℓ epoxiconazole (triazole) 125 g/ ℓ

Registration holder:

UNIVERSAL CROP PROTECTION. (PTY) LTD.

Co. Reg. No. 1983/008184/07

P.O. Box 801, KEMPTON PARK, 1620, Tel. (011) 396 2233

WARNINGS

Allow the following number of days between the last application and harvest or grazing of the crops as listed below:	
Barley and Wheat (Do not graze barley and wheat)	60 days
Groundnuts	28 days
Maize including Sweet Corn	30 days
Soybeans	40 days
Sorghum	40 days

NOTE

THE MAXIMUM RESIDUE (MRL'S) LEVELS WILL NOT BE EXCEEDED, PROVIDED APPLICATIONS ARE APPLIED AS HEREWITH PRESCRIBED. WHEN PRODUCTION IS DESTINED FOR THE EXPORT MARKET, THE EXPORT AGENCY OF CONCERN MUST BE CONTACTED, PRIOR TO THE USE OF INDICATE 250 SC IN A SPRAY PROGRAMME.

Hazard statements:

May cause an allergic skin reaction.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.
May cause cancer.
May damage fertility or the unborn child.

- Handle with care.
- Store the product in the original container in a cool, dry, well-ventilated place away from food, seed, feedstuff and other agricultural chemicals.
- 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 area to be sprayed and issue the necessary warnings. Do not spray 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 products not indicated on the label and the occurrence of resistance of the disease to the remedy concerned, as well as by the method, time and accuracy of application. The registration holder further does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned, due to failure of the user to follow the label instructions or to the occurrence of conditions, which could not have been foreseen in terms of the registration. Consult the supplier in event of any uncertainty.

PRECAUTIONS

Precautionary statements:

Obtain, read and follow all safety instructions before use.

Contaminated work clothing should not be allowed out of the workplace.

Avoid release into the environment.

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Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles	
IF ON SKIN: Wash with plenty of water and non-abrasive soap.	
IF exposed or concerned, get medical advice. See specific treatments on the label.	
If skin irritation or rash occurs: Get medical help.	
Collect spillage.	
Store locked up.	
Dispose of contents/container to suitable landfill in accordance with local regulations.	

- Avoid inhalation of the spray mist.
- Avoid eye and skin contact.
- In case of eye contamination, rinse the eyes thoroughly with plenty of clean water for at least 15 minutes, holding the eyelid(s) open. Obtain medical assistance immediately.
- Wash contaminated clothing after use.
- Do not eat, drink or smoke whilst mixing and applying the product or before washing hands and face and change of clothing.
- Prevent drift onto other crops, grazing, rivers, dams or areas not under treatment or to nearby water sources.
- Thoroughly clean 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 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.
- 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.

Relevant hazardous components	
Epoxiconazole	125 g/ℓ
Azoxystrobin	125 g/ℓ
MEG	< 100 g/ℓ
Formaldehyde	< 5 g/ℓ

FIRST AID TREATMENT

- 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.
- Inhalation: If vapours or mists have been inhaled, move victim to fresh air and remove source of contamination if safe to do so. Administer artificial respiration if patient is not breathing, if breathing is laboured supply oxygen. Only qualified personnel should administer oxygen. Seek medical attention.
- **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 if irritation develops.
- **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. If vomiting occurs keep head lower than hips to prevent aspiration. Obtain medical attention of the affected person is not feeling well.

RESISTANCE WARNING

INDICATE 250 SC is a group code 3 + 11 fungicide. Any fungus population may contain individuals naturally resistant to **INDICATE 250 SC** and other group code 3 + 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 **INDICATE 250 SC** or any other group code 3 + 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.

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- do not exceed two (2) applications of INDICATE 250 SC per season.
- 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:

Azoxystrobin which is a quinone-outside inhibitor. This blocks the electron transfer between cytochrome b and c1 which results in inhibition of mitochondrial respiration. **Epoxiconazole** works as an eradicant by encapsulating fungal haustoria, which are then cut off from their nutrient supply and therefore die.

DIRECTIONS FOR USE: Only use as indicated.

General information:

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

Compatibility:

- INDICATE 250 SC is compatible with the adjuvant Direct.
- The compatibility of INDICATE 250 SC with other products may vary. A physical compatibility test must always be performed before such a tank mixture is sprayed. Water quality may influence the compatibility of INDICATE 250 SC.
- When INDICATE 250 SC is used in conjunction with any other agricultural remedy, adhere to all WARNINGS, PRECAUTIONS and DIRECTIONS FOR USE mentioned on that label.

Mixing instructions:

- Half fill the spray tank with clean water.
- Shake the INDICATE 250 SC container well before use.
- Premix the required quantity of **INDICATE 250 SC** with at least 10 litres of water.
- Add the premix to the water in the spray tank.
- Agitate well to obtain a homogeneous emulsion.
- Fill the spray tank with water to the required level while maintaining agitation, to ensure thorough mixing.
- Maintain agitation while spraying.
- If another product is to be mixed with **INDICATE 250 SC**, the required quantity of the other product should be premixed, prior to slowly adding to the spray mixture after the **INDICATE 250 SC**.
- Do not leave the prepared spray mixture in the spray tank for any length of time, e.g., overnight.

APPLICATION

General:

INDICATE 250 SC should be applied to protect crops and prevent diseases.

Ground application:

INDICATE 250 SC can be applied with conventional high volume spray equipment. It is important that the sprayer be in good working order and correctly calibrated prior to application, to ensure that the correct delivery rate and even distribution of the spray mixture is obtained.

Aerial application:

Aerial application of **INDICATE 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:

- <u>Volume</u>: A spray mixture volume of 30 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 to 40 droplets per cm² must be recovered at the target area.
- <u>Droplet size</u>: 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.

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- <u>Flying height</u>: Maintain the height of the spray boom at 3 to 4 meters above the target. Do not spray when aircraft is in a climb, at the top or during a dive, or when banking.
- Use suitable <u>atomising equipment</u> (hydraulic nozzles or rotary atomizers) 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 atomisers within the inner 60 to 75 % of the wingspan to prevent droplets from entering the <u>wingtip vortices</u>.
- The difference in <u>temperature</u> 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 <u>inversion conditions</u> (spraying in or above the inversion layer) and/or <u>high humidity conditions</u> (relative humidity 80 % and above) may lead to the following:
 - reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage),
 - 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 and Disease	Dosage rate m// ha OR 100 / water	Remarks
Soybeans	Ground application	
Soybean rust	600 mℓ / ha	Apply the first application of INDICATE 250 SC at
(Phakopsora pachyrhizi)		the onset of flowering before any disease
	PLUS	symptoms are noticed.
		A second application of INDICATE 250 SC is
	50 m ℓ Direct / 100 ℓ water	recommended 3 to 4 weeks later . Under expected high disease pressure conditions, a 3
	OR	weekly spray interval is recommended.
	Aerial application 600 mℓ / ha	Ground application: Apply as a full cover spray in 300 to 500 litres water per hectare.
	PLUS	Aerial application: Apply in 30 to 40 litres water per hectare. Refer to
	100 mℓ Direct / 100 ℓ	"Aerial application Instructions" above.
	water	, , , , , , , , , , , , , , , , , , ,
Barley	Water	
Net blotch	Ground application	Annhadha Cadana Badan dhan dha 🔻
(Pyrenophora teres)	800 mℓ / ha	Apply the first application not later than the 7-leaf stage.
Leaf spot	PLUS	Apply a second application 3 to 4 weeks later if disease pressure is evident (normally at flag leaf
(Rhynchosporium secalis)		stage before appearance of the head).
Leaf rust	50 m <i>ℓ</i> Direct / 100 <i>ℓ</i> water	
(Puccinia hordei)	OR	The first product application must be applied STRICTLY PREVENTATIVE before any
Powdery mildew	Acrial application	symptoms are noticed.
(Erysiphe graminis)	Aerial application 800 mℓ / ha	Ground application: Apply in 200 to 400 litres of water per hectare.
	PLUS	Aerial application: Apply in 30 to 40 litres of water per hectare. Refer
	100 mℓ Direct / 100 ℓ	to "Aerial application Instructions" above.
	water	

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Crop and Disease	Dosage rate mℓ/ ha OR 100 ℓ water	Remarks
Maize & Sweetcorn Grey leaf spot (Cercospora zeae-maydis) Northern leaf blight (Exserohilum turcicum)	Ground application	INDICATE 250 SC IS RECOMMENDED IN AN INTEGRATED DISEASE MANAGEMENT PROGRAMME. IN ORDER TO ACHIEVE CONSISTENT AND RELIABLE DISEASE CONTROL, PREVENTIVE FUNGICIDE APPLICATIONS ARE CRITICALLY
Rust	800 mℓ / ha	IMPORTANT.
(Puccinia sorghi)	PLUS	Apply the first application of INDICATE 250 SC at the 5 to 6 leaf stage before any disease
	50 mℓ Direct /100 ℓ water	symptoms are noticed. A second application of INDICATE 250 SC is recommended 3 weeks later. Under continued high disease pressure conditions, a third
	OR	application with Flusilazim 375 SC is recommended, 3 to 4 weeks later.
	Hand-held Spinning disc applicator and Aerial application 800 mℓ / ha	In certain areas/conditions, where low disease presence is expected, apply a single application of INDICATE 250 SC at the 5 to 6 leaf stage. If extended disease control is required, revert back
	PLUS	to the above mentioned, follow-up application of INDICATE 250 SC .
	100 m ℓ Direct / 100 ℓ water	Ground application: Apply as a full cover spray in 300 to 500 litres water per hectare. Hand-held Spinning disk applicator: Apply 50 to 70 litres water per hectare. Aerial application: Apply in 30 to 40 litres water per hectare. Refer to "Aerial application Instructions" above.
	Row application for low density plantings 270 mℓ / 100 ℓ water	Row application for low density plantings: e.g., in the Free State and Western parts of RSA: This dosage is based on an overall ground application of 800 ml per hectare, in 300 litres water per hectare.
	PLUS 100 mε Direct / 100 ε	Apply, using a tandem fitting with two solid- or hollow cone nozzles, mounted on the boom above each row.
	water	Use sufficient water (not less than 100 litres per hectare), to ensure total coverage of the plants.

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Crop and Disease	Dosage rate mℓ/ ha OR 100 ℓ water	Remarks
Wheat Brown rust (Puccinia triticina) Stem rust (Puccinia graminis) Speckled leaf and Glume blotch (Septoria spp.) Eyespot (Pseudocercosporella herpotrichoides) Powdery mildew (Erysiphe graminis)	Ground application 800 mℓ / ha PLUS 50 mℓ Direct / 100 ℓ water OR Aerial application 800 mℓ / ha PLUS	The first product application must be applied STRICTLY PREVENTATIVE before any symptoms are noticed. Ground application: Apply in 200 to 300 litres of water per hectare. Aerial application: Apply in 30 to 40 litres of water per hectare. Refer
Yellow rust / Stripe rust (Puccinia striformis)	100 m <i>ℓ</i> Direct / 100 <i>ℓ</i> water	to "Aerial application Instructions" above.
Sorghum Leaf blight (Exserohilum turcicum) Rust (Puccinia purpurea) Sooty stripe (Ramulispora sorghi)	Ground application 800 mℓ / ha PLUS 50 mℓ Direct / 100 ℓ water OR Aerial application 800 mℓ / ha PLUS	In certain areas/conditions, where low disease presence is expected, apply a single application of INDICATE 250 SC at the 5 to 6 leaf stage. If extended disease control is required, revert back to the above mentioned, follow-up application of INDICATE 250 SC. Ground application:
	100 m <i>ℓ</i> Direct / 100 <i>ℓ</i> water	Apply as a full cover spray in 300 to 500 litres water per hectare. <u>Aerial application:</u> Apply in 30 to 40 litres water per hectare. Refer to "Aerial application Instructions" above.

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Crop and Disease	Dosage rate mt/ ha OR 100 / water	Remarks
Groundnuts Leaf spot (Cercospora spp.) Leaf blotch / Web spot (Phoma arachidicola) Rust (Puccinia arachidis)	Ground application 600 mt / ha PLUS 50 mt Direct / 100 t water OR Aerial application 600 mt / ha PLUS 100 mt Direct / 100 t	Apply the first application of INDICATE 250 SC at the onset of disease development (first infection noticed on the basal leaves). A second application of INDICATE 250 SC is
Black wattle (plantations) (Acacia mearnsii) Rust (Uromucladium spp.)	water	INDICATE 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.
	Ground application 50 mℓ /100 ℓ water PLUS light mineral oil (250 mℓ / 100 ℓ water). OR	Apply the first application of INDICATE 250 SC at the onset of the raining season when active growth of the trees is expected. A second application of INDICATE 250 SC is recommended four (4) weeks later. Under continued high disease pressure conditions, additional applications with Propiconazole 250EC are recommended at four (4) weekly intervals throughout the raining season and active growth of the trees.
	Aerial application 1500 mℓ / ha PLUS 100 mℓ Direct / 100 ℓ water	Do not apply more than two (2) INDICATE 250 SC applications per growing season. Ground application: Apply in at least 2000 to 3000 litres water per hectare depending on tree size and density. Ensure thorough coverage of the tree frames, twigs, and leaves. Aerial application: Apply in at least 40 litres water per hectare. Consult the Propiconazole 250EC labels for USE RESTRICTIONS, WARNINGS (including)

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

- **DIRECT** (L 8680) = **LINK** (L 8675) = **SOLWET** (L 8679),
- FLUSILAZIM 375 SC (L 8400 / W 130493) = SPARTA 375 SC (L 8403) (Flusilazole + Carbendazim) and

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PROPICONAZOLE 250EC (L 7306) = PROPIZOLE 250 EC (L 7561 / W1301396).

DIRECT, LINK, FLUSILAZIM 375 SC and PROPICONAZOLE 250EC are registered products of UNIVERSAL CROP PROTECTION (PTY) LTD.

PROPIZOLE 250 EC and SPARTA 375 SC are registered products of VILLA CROP PROTECTION (PTY) LTD.

SOLWET is a registered product of **SPECTRUM RESEARCH SERVICES**.

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