

DIFENOBIN 325 SC

FUNGICIDA

Reg No. L0000 Act 36 of 1947
Fungicide Group Codes 11 & 3

A broad-spectrum fungicide with systemic, translaminar and contact activity, formulated as a suspension concentrate, for the control of various diseases on crops as listed

ACTIVE INGREDIENTS

Azoxystrobin (strobilurin) 200 g/l
Difenoconazole (triazole) 125 g/l



DVA

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Net contents:

5 L

Batch Number

Date of manufacture

UN Number: 3082

Registration Holder

DVA Chemicals South Africa
Co. Reg. no.2006/000931/07
Diaz Office Park, Block C
Unit 17, Mossel Bay, 6506

Emergency number (Poisoning): (021) 931 6129



CAUTION



DIFENOBIN 325 SC

WARNINGS:

Allow the following withholding periods between the last application and harvest.

Dry beans	45 days
Groundnuts	28 days
Maize, sweetcorn	14 days
Bulb Vegetables (Chives, garlic, leeks, onions)	7 days

NOTE: Compliance with these withholding periods will ensure that residues do not exceed local Maximum Residue Limits. Consult the relevant exporting body about pre-harvest interval requirements if the crop is intended for the export market.

- Harmful if swallowed.
- Toxic to fish and harmful to other aquatic organisms.
- May cause long-term adverse effects in aquatic environments.
- Store away from food and feed.
- Keep out of reach of children, uninformed persons and animals.
- Be aware: Do not enter treated area until spray deposit has dried.

Aerial application: Notify all inhabitants in the immediate vicinity of the area 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 effective under all conditions because the action and effect thereof may be affected by factors such as abnormal soil, 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 to 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:

- Do not inhale spray mist.
- Avoid contact with skin and eyes.
- Wash with soap and water after use or accidental skin contact.
- In case of eye contact, immediately flush the eyes with clean, cold water.
- Wash contaminated clothing daily.
- Do not eat drink or smoke whilst mixing or applying this product or before washing hands and face and changing clothing.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Wear protective clothing (rubber gloves and a face shield) when handling or applying the product.
- Avoid spray drift onto other crops, grazing, rivers or dams.
- Clean applicator thoroughly after use and dispose of rinse water where it will not contaminate crops, grazing, rivers or dams.
- Rinse the empty container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsing to the contents of the spray tank.
- Destroy the empty container and do not use it for any other purpose.
- The triple-rinsed container may be sent to an approved recycling company.

RESISTANCE MANAGEMENT

For resistance management, **DIFENOBIN 325 SC** is classified as a Group Code 11 and 3 fungicide. Any fungus population may contain individuals naturally resistant to **DIFENOBIN 325 SC** and other Group Code 11 and 3 fungicides. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly and exclusively in programmes. These resistant fungi may not be controlled by **DIFENOBIN 325 SC** or any other Group Code 11 and 3 fungicides.

To delay fungicide resistance:

Avoid exclusive repeated use of fungicides from the same fungicide group code. Alternate or use in tank mixtures with products from different fungicide Group Codes.

Refer to individual product labels when alternating products or when using tank mixtures.

Integrate other control methods (chemical, cultural, biological) into disease control programmes.

General:

- **DIFENOBIN 325 SC** should always be applied preventively as prescribed in the recommendations table.
- **DIFENOBIN 325 SC** must be applied as a full cover spray.
- Do not reduce the dosage rates below those recommended on the label.
- Never use **DIFENOBIN 325 SC** as a corrective or curative treatment or after the unsuccessful application of any product.
- When tank mixing or alternating with other fungicides, use mixing partners that provide satisfactory disease control when used alone at the recommended mixing rate.
- For specific information on resistance management contact the distributor or visit the **FRAC** website at <http://www.frac.info/>

DIRECTIONS FOR USE:

 Use only as indicated.

Compatibility:

DIFENOBIN 325 SC is compatible with most fungicides, insecticides and acaricides, however products containing heavy metals should be avoided. Compatibility should be dependent on the partner formulation and also the water quality. Test small samples of the proposed mixture for physical compatibility before mixing them in the spray tank.

RECOMMENDATIONS:

DRY BEANS

CROP/DISEASE:	DOSE:	REMARKS:
Anthraxnose (<i>Colletotrichum lindemuthianum</i>)	Ground application 500 m t /ha	• Apply two (2) consecutive sprays 14 days apart starting at flower initiation.
Rust (<i>Uromyces appendiculatus</i>)	Spray volume: • Tractor application: 250 - 500 t water/ha	• Do not exceed two (2) applications of DIFENOBIN 325 SC per season.

MAIZE, SWEETCORN and GRAIN SORGHUM

CROP/DISEASE:	DOSE:	REMARKS:
Grey leaf spot (<i>Cercospora</i> spp.)	Ground application 500 - 1000 m t /ha	• Start application before 3 % of the total leaf area shows disease symptoms OR as soon as symptoms appear on the basal 3 - 5 leaves.
Northern corn leaf blight (<i>Setosphaeria</i> [=Exserohilum]) (=Helminthosporium turcicum)	Spray volumes: • Tractor application: 250 - 450 t water/ha	• In all cases, but particularly with northern leaf blight, it is vitally important that applications are purely preventive, i.e. applications must be made in good time for effective disease control.
Rust (<i>Puccinia sorghi</i>)	• High clearance tractor application: 150 - 300 t water/ha • Knapsack sprayer application: 60 - 70 t water/ha	• Apply at 21 - 28 day intervals. Use the shorter application interval if disease pressure is very high. • In certain cases where the initial application was applied at a very early stage, a third application may be made. • In the case of short season hybrids, when the first spray was applied after pollination, this will probably be sufficient to control the disease and further sprays may not be necessary. • Do not apply more than three (3) sprays of DIFENOBIN 325 SC per season

BULB VEGETABLES (Chives, garlic, leeks, onions)

CROP/DISEASE:	DOSE:	REMARKS:
Botrytis leaf blight (<i>Botrytis</i> spp.)	Ground application 500 - 1000 t water/ha	Apply as part of a protectant programme before disease occurs when conditions are conducive for disease development.
Cercospora leaf spot (<i>Cercospora</i> spp.)	Spray volume: • Tractor application: 250 - 1000 t water/ha	Apply as part of a 7 to 10 days spray schedule.
Powdery mildew (<i>Leveillula taurica</i>)		Do not apply more than one (1) application of DIFENOBIN 325 SC before following up with products with a different mode of action.
Purple blotch (<i>Alternaria porri</i>)		Do not exceed four (4) applications of DIFENOBIN 325 SC per season.
Stemphylium leaf blight (<i>Stemphylium vesicarium</i>)		Apply with an adequate water volume to ensure complete coverage. DIFENOBIN 325 SC can be used in a spray programme with other registered products not containing azoxystrobin or difenoconazole.

Mixing instructions:

Half fill the spray tank with clean water; add the required volume of **DIFENOBIN 325 SC** and then add the remaining water while stirring continuously.

For mixtures, add **DIFENOBIN 325 SC** first, followed by the tank mix partner product unless this is in the form of soluble sachets, in which case these should be added first.

Application:

All applications of **DIFENOBIN 325 SC** must be made with appropriate equipment that is properly calibrated, clean and in good working order. Apply as a full cover spray using the spray volumes as indicated in the relevant tables to ensure good, even coverage of all parts of the plant for maximum efficacy. Avoid spray overlap as crop injury may occur.

Thorough and continuous agitation during application is essential. Ensure that agitation takes place for a few minutes prior to commencement of spraying after normal operational stops e.g. lunch break. Do not let the spray mixture stand for long periods of time e.g. overnight.

The application must be repeated if it rains within two hours after application.

Ground Application

DIFENOBIN 325 SC may be applied with conventional high volume spray equipment that has been calibrated to ensure that the correct dosage is applied and that the distribution of the spray volume will be uniform throughout the target area.

Ensure good coverage of the whole plant (the stems and leaves) by using enough water and suitable spraying equipment. Do not apply through any ultra-low volume (ULV) spray system.

Aerial application:

Use only in crops where aerial application is indicated.

Aerial application of **DIFENOBIN 325 SC** may only be done by a registered aerial application operator using a correctly calibrated, registered aircraft according to the instructions of SANS 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 are met:

a.) Application parameters:

- **Volume:** A droplet volume of 30 - 40 t/ha is recommended. As **DIFENOBIN 325 SC** has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy or be held responsible for any adverse effects if the product is applied aerially at a lower volume rate than recommended above.
- **Droplet coverage:** Droplet coverage of 25 - 35 droplets per cm² must be recovered at the target.
- **Droplet size:** A droplet spectrum with a VMD of 280 - 300 microns is recommended. Limit the production of fine droplets (less than 150 microns - high drift and evaporation potential) to a minimum.
- **Flying height:** Maintain the height of the spray boom at 3 - 4 metres above the target. Do not spray when aircraft is in a climb, at the top of a turn, during a dive or when banking.

b.) Equipment:

- Use suitable atomising equipment (hydraulic nozzles or rotary atomisers) that will produce the desired droplet size and coverage but which will ensure the minimum loss of product either through end drift (within target field) or ex drift (outside target field).
- The operator must use a setup that will produce a droplet spectrum with the lowest possible Relative Span.
- All nozzles / atomisers should be positioned within the inner 60% to 75% of the wingspan to prevent droplets from entering the wingtip vortices.

c.) Meteorological conditions:

- 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/h or is lower than 5 km/h.
- Stop spraying under turbulent, unstable and dry conditions during the heat of the day when rising thermals and downdrafts occur.
- 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:
- 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.
- Under the following climatic conditions drift could occur up to 3 - 5 km from the nearest spray path of the aircraft:
- Cloudy weather with relative humidity above 80 % and low air movement of less than 5 km/h.
- When such conditions prevail, aerial application should NOT be carried out where sensitive crops, seedlings or deciduous fruit trees e.g. apples in budding or early development stages are present within 5 km of the nearest spray path of the aircraft.

b.) General

- Ensure that the aerial spray operator knows which fields to spray.
- Supply the precise identification to the operator of the fields to be sprayed preferably by means of a map or GPS coordinates. Ensure the fields are accurately marked.
- Indicate to the operator 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 relevant data will be entered in a logbook and kept for future reference.

GROUNDNUTS (PEANUTS)

CROP/DISEASE:	DOSE:	REMARKS:
Early leaf spot (<i>Cercospora arachidicola</i>)	Ground application 500 m t /ha	• Apply two (2) consecutive sprays 14 - 21 days apart starting at first signs of disease, or at flower initiation
Web blotch (<i>Phoma arachidicola</i>)	Spray volume: • Tractor application: 300 - 400 t water/ha	(10 - 12 weeks after planting) if no disease is present. • Do not exceed two (2) applications of DIFENOBIN 325 SC per season.



CAUTION

