



BITRAD DIFENOCONAZOLE 250 EC

Reg. No. L10087 (Act No 36 of 1947)

Reg. Nr. L10087 (Wet Nr 36 van 1947)

**Read the label before use
Keep out of reach of children**

An emulsifiable concentrate systemic fungicide for the control of diseases in crops as indicated.

'n Emulgeerbare konsentraat sistemiese swamdoder vir die beheer van siektes in gewasse soos aangedui.

	Hazard statement Flammable liquid and vapor May be fatal if swallowed and enters airways (aspiration hazard) Causes skin irritation Causes serious eye damage May cause respiratory irritation May cause drowsiness or dizziness Suspected of causing cancer Very toxic to aquatic life with long lasting effects Precautionary statement Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Keep container tightly closed
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Danger

FRAC FUNGICIDE GROUP CODE	3	FRAC SWAMDODERGROEPKODE
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ACTIVE INGREDIENT

difenoconazole (triazole)

.....250 g/l

AKTIEWE BESTANDDEEL

difenokonasool (triasool)

NET VOLUME

1 l

NETTO VOLUME

**REGISTERED BY /
GEREGISTREER DEUR:**

BITRAD AGRI (PTY) LTD
Co./Mpy Reg. No. 2008/021787/07
PO Box/Posbus 51454
WIERDAPARK 0149

**DISTRIBUTED BY /
VERSPREI DEUR:**

**BATCH NUMBER
DATE MANUFACTURED**

UN number: 3082

**LOTNOMMER
DATUM VERVAARDIG**

VN-nommer: 3082

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Active Ingredient / Aktiewe bestanddeel:

difenoconazole (triazole) / difenokonasool (triasool) 250 g/l

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CAUTION VERSIGTIG

WARNINGS

- WITHHOLDING PERIOD: THE FOLLOWING MINIMUM NUMBER OF DAYS MUST BE ALLOWED BETWEEN LAST APPLICATION AND HARVEST OR USE AS FODDER:

Apples and pears 14 days
Grapes 28 days
Maize 14 days

NOTE: Compliance with these withholding periods will ensure that residues do not exceed local maximum residue limits, but the import tolerances of other countries might possibly be exceeded. If the crop to be treated is intended for export, consult the relevant importing or exporting body regarding the use of this product, maximum residue limits and recommended withholding periods.

- Flammable liquid and vapor
- May be fatal if swallowed and enters airways (aspiration hazard).
- Causes skin irritation
- Causes serious eye damage
- May cause respiratory irritation
- May cause drowsiness or dizziness.
- Suspected of causing cancer
- Very toxic to aquatic life with long lasting effects
- Do not graze or use treated maize as fodder.
- Handle with care.
- A mild skin and moderate eye irritant.
- Toxic to fish, other aquatic organisms, and other animals.
- Store in original container, tightly closed in a cool well-ventilated place, away from sun and damp, food and feedstuffs. Avoid storage temperatures below 10 °C and above 35 °C.
- **Flammable** - Do not store or use near open flame.
- 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 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 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 pathogen 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 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

- If medical advice is needed, have product container or label at hand.
- Keep out of reach of children.
- Obtain, read and follow all safety instructions before use.
- Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking.
- Keep container tightly closed.
- Ground/ bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Avoid breathing dust/fumes/gas/mist/vapours/spray.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Wear protective gloves, protective clothing, eye, and face protection.
- Wash hands and face thoroughly after handling. Do not touch eyes.
- If exposed or concerned, get medical help.
- Get medical help if you feel unwell.
- Do NOT induce vomiting.
- Collect spillage.
- IF SWALLOWED: Get medical help immediately.
- IF ON SKIN: Wash with plenty of water.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- If skin irritation occurs, get medical help.
- Take off contaminated clothing and wash it before reuse.
- In case of fire: Use carbon dioxide, dry chemical, or water spray to extinguish.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- Keep container tightly closed.
- Store in a well-ventilated place. Keep cool.
- Store locked up.
- Dispose of contents or container to an approved waste disposal facility
- Avoid contact with skin and eyes.
- Wear rubber gloves and face shield when handling the concentrate.
- Do not eat, drink or smoke whilst mixing or spraying or before washing hands and face.
- Wash with soap and water after use or accidental skin contact.
- Wash contaminated clothing daily.
- Avoid drift of spray mist onto other crops, grazing, rivers and dams and areas not under treatment.
- Clean applicator thoroughly after use and dispose of wash water where it will not contaminate crops, grazing, rivers and dams.
- Triple rinse empty container in the following manner: Invert the empty container over the spray or mixing tank and allow to drain 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 minimum of 10% of that of the container. Add the rinsing to the contents of the spray tank before destroying the container in the prescribed manner.
- Destroy empty container by perforation and flattening and do not re-use for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

RELEVANT SUBSTANCE

Composition	%
Difenoconazole	<25 %
Light Aromatic Petroleum Solvent	<70 %
Calcium Dodecyl Benzene Sulfonate	>4 %
Oleyl alcohol, ethoxylated	>4 %

RESISTANCE WARNING

For resistance management, **BITRAD DIFENOCONAZOLE 250 EC** is a group **3** fungicide. Any fungus population may contain individuals naturally resistant to **BITRAD DIFENOCONAZOLE 250 EC** and other group **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 **BITRAD DIFENOCONAZOLE 250 EC** or other group **3** fungicides.

To delay fungicide resistance:

- Avoid exclusive repeated use insecticides from the same insecticide group code.
- Alternate or tank mix with products from different fungicide group codes.
- Integrate other control methods (chemical, cultural, biological) into disease control programs.

For further information, contact your local distributor.

GROUND APPLICATION

Row crop

Apply in 300 to 500 liter of water per hectare. When using a conventional high volume spray equipment or mist blower, use hollow cone nozzles that deliver medium to fine droplets. Calibrate the spray equipment accurately and during application, ensure the correct dosage rate per hectare is applied and good coverage of crop and even distribution of spray mixture is achieved.

Deciduous fruit orchards. Volume water to be applied per hectare

The volume of water to be applied per hectare in deciduous fruit orchards is calculated according to the Tree Row Volume Formula as described by Unrath:

The formula is as follows:
$$\frac{\text{Tree height} \times \text{tree diameter} \times 937}{\text{Row width}} = \text{Volume water to be applied/ha}$$

The measurements used in the formula are those of the tree in full leaf cover. Because deciduous fruit trees are not always in full leaf the water volume to be applied per hectare at the earlier growth stages is as follows:

- | | |
|---------------------------------------|-----------------------------|
| From green-tip to 30 % blossom | - 60 % of HV to be applied |
| From ca. full blossom to ca. November | - 80 % of HV to be applied |
| From ca. beginning of December | - 100 % of HV to be applied |

When pesticides are applied as low volume sprays the correct quantity of pesticide, as calculated for high volume applications, must be applied per hectare.

Grapevines

The quantity of **DIFENOCONAZOLE 250 EC** to be applied per hectare should be calculated according to the requirements for high volume application. The following guidelines can be used:

Growth stage	High volume spray mixture required in liter per hectare	
	Table grapes	Wine grapes
Shoot length 2,5 cm to 25 cm	500 - 750	250 - 500
25 cm shoot length to just prior to flowering	750 – 1 000	500 - 750
Flowering to pea berry stage	1000 - 1200	750 – 1 000

AERIAL APPLICATION

Aerial application of **BITRAD DIFENOCONAZOLE 250 EC** may only be done by a registered Aerial Application Operator using a correctly calibrated, registered aircraft according to the instructions of SANS 10118:2009 (The Aerial Application of 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 liter 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: 25 to 35 droplets per cm² must be recovered at the target area.
- Droplet size: A droplet spectrum with a VMD of 280 to 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 to 4 meters above the target. Do not spray when aircraft dives, is in a climb or when banking.
- Use suitable atomising 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 atomisers 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:
 - reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage).
 - Damage to other sensitive crop and/or non-target areas through drifting of the suspended spray cloud 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.

DIRECTIONS FOR USE

Use only as directed.

GENERAL INFORMATION

The active ingredient, difenoconazole, is a local systemic fungicide with limited acropetal movement. When applied in a protective spray program **BITRAD DIFENOCONAZOLE 250 EC** effectively controls the pathogens of the diseases mentioned in the table below.

COMPATIBILITY

BITRAD DIFENOCONAZOLE 250 EC is compatible with mancozeb 800 wettable powders and captab 500 suspension concentrates for use in apples and pears. The compatibility of **BITRAD DIFENOCONAZOLE 250 EC** with other products may be influenced by the formulation of the products involved as well as the quality of the water. Since the formulation of other products may change without the knowledge of Bitrad Agri (Pty) Ltd and the quality of water may vary from farm to farm, a physical compatibility test should always be carried out prior to application.

MIXING INSTRUCTIONS

Half fill the spray tank with clean water and add the required amount of **BITRAD DIFENOCONAZOLE 250 EC** while agitating. Fill the spray tank then to the required volume with water. Maintain agitation of spray mixture. Preferably agitation should be maintained during application of the spray mixture.

When a wettable powder or suspension concentrate is sprayed as a tank mixture with **BITRAD DIFENOCONAZOLE 250 EC**, the wettable powder or suspension concentrate should be mixed first in the spray tank as given on the labels of these fungicides and well agitated after which the **BITRAD DIFENOCONAZOLE 250 EC** is added and the spray tank filled to its final volume.

Ensure thorough agitation of the mixture in the spray tank during mixing and spraying.

Spray mixtures must be sprayed out immediately and not allowed to stand in the spray tank.

CROP / DISEASE	DOSAGE	REMARKS
APPLES AND PEARS Scab <i>(Venturia spp.)</i>	GROUND APPLICATION 6 mℓ plus 100 mℓ captab 500 SC or 75 g mancozeb 800 WP per 100 ℓ water	Apply as a full cover spray to point of run-off in a protective spray program during periods when conditions are favourable for the development of scab. Start applying at green tip stage and repeat every 7 days to the end of the pre-blossom stage. Continue applications in post-blossom period repeating applications every 10 to 14 days. Refer 'Deciduous fruit orchards. Volume water to be applied per hectare' under 'GROUND APPLICATION'
MAIZE AND SWEET CORN Grey leaf spot <i>(Cercospora. zea-maydis)</i> Northern leaf blight <i>(Helminthosporium. turcicum)</i>	AERIAL APPLICATION 300 mℓ/ha	Grey leaf spot: Start spraying when disease is present on the basal (bottom) leaves and before symptoms show on the three leaves immediately below cob and before symptoms exceed 2% of the leaf area. A repeat application may be necessary 14 to 21 days later. Northern leaf blight: Start spraying at first signs of disease and before 2% of leaf area is infected with disease. Repeat application 14 to 21 days later.
TABLE AND WINE GRAPES Powdery mildew <i>(Oidium tuckeri)</i>	12 mℓ/100 ℓ water	Apply in a spray program as a full cover spray to the point of run-off. Ensure thorough coverage at all times. Start spraying when the first shoots are 10 to 25 cm long and repeat sprays at intervals of 14 days. Do not apply more than 4 sprays per season. The last spray should not be applied later than bunch closure (berry touch completed). For the volume spray mixture required per hectare for table and wine grapes see 'Grapevines' under 'GROUND APPLICATION'.

WAARSKUWINGS

- ONTHOUDINSPERIODE: DIE VOLGENDE MINIMUM AANTAL DAE MOET VERLOOP TUSSEN LAASTE TOEDIENING EN OES:

Appels en pere	14 dae
Druive	28 dae
Mielies	14 dae

LET WEL: Nakoming van hierdie onthoudingsperiodes sal verseker dat die plaaslike maksimum residu limiete nie oorskry word nie, maar mag dalk nie voldoen aan die invoervereistes van ander lande nie. Indien die gewas wat behandel gaan word bestem is vir uitvoer, skakel met die betrokke invoer- of uitvoerliggaam rakende die gebruik van hierdie produk, maksimum residu vereistes en aanbevole onthoudingsperiodes.

- Vlambare vloeistof en damp.
- Kan dodelik wees wanneer dit ingesluk word en lugweë binnedring (aspirasiegevaar).
- Veroorsaak velirritasie.
- Veroorsaak ernstige oogskade.
- Kan respiratoriese irritasie veroorsaak.
- Kan lomerigheid of duiseligheid veroorsaak.
- Word daarvan verdink dat dit kanker veroorsaak.
- Baie giftig vir waterlewe met langdurige effekte.
- Moet nie behandelde mielies bewei of as voer gebruik nie.
- Hanteer versigtig.
- 'n Ligte vel- en matige oogirritant.
- Giftig vir visse, ander waterorganismes en ander diere.
- Bêre in oorspronklike houer, dig toegemaak in 'n koel goed belugte plek, weg van son en vogtigheid, voedsel en voer.
- **Vlambaar** – moet nie naby oop vlam bêre of gebruik nie.
- Hou buite bereik van kinders, oningeligte persone en diere.
- **Herbetreding:** Moet nie behandelde gebied betree alvorens die spuit-neerslag droog is nie, tensy beskermende klere gedra word.
- Moet nie as 'n lugbespuiting toedien nie.
- **Lugtoediening:** Stel alle inwoners in die omgewing van die gebied wat bespuit gaan word in kennis en reik die nodige waarskuwings uit. Moet nie oor aangrensende gebiede of water spuit of toelaat dat spuitnewel dit besoedel nie.

Alhoewel hierdie middel omvattend onder 'n groot verskeidenheid toestande getoets is, waarborg die registrasiehouer nie dat dit onder alle toestande doeltreffend sal wees nie aangesien die werking en effek daarvan beïnvloed kan word deur faktore soos abnormale grond-, klimaats- en bergingstoestande; kwaliteit van verdunningswater; verenigbaarheid met ander stowwe wat nie op die etiket aangedui is nie en die voorkoms van weerstand van die patoëen teen die betrokke middel sowel as die metode, tyd en akkuraatheid van toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei, die omgewing of vir nadelige effek op mens en dier of vir 'n gebrek aan prestasie van die betrokke middel as gevolg van die versuim deur die gebruiker om etiketaanwysings na te kom of as gevolg van die ontstaan van toestande wat nie kragtens die registrasie voorsien kon word nie. Raadpleeg die verskaffer in geval van enige onsekerheid.

VOORSORGMAATREËLS

- Indien mediese advies benodig word, hou produkhouer of etiket byderhand.
- Hou buite bereik van kinders.
- Verkry, lees en volg alle veiligheidsinstruksies voor gebruik.
- Hou weg van hitte, warm oppervlak, vonke, oop vlamme en ander ontstekingsbronne. Geen rook nie.
- Hou houer dig toe.
- Grond-/verbindehouer en ontvangtoerusting.
- Gebruik ontploffingsvaste elektriese/ventilerende/beligting/toerusting.
- Gebruik slegs gereedskap wat nie vonk nie.
- Tref voorsorgmaatreëls teen statiese ontlading.
- Vermyn asemhaling van stof/dampe/gas/mis/sproei.
- Was hande en gesig deeglik na hantering.
- Gebruik slegs buite of in 'n goed geventileerde area.
- Vermyn vrylating na die omgewing.

- Dra beskermende handskoene, beskermende klere, oog- en gesigbeskerming.
- Was hande en gesig deeglik na hantering. Moenie aan oë raak nie.
- Indien blootgestel of bekommerd, kry mediese hulp.
- Kry mediese hulp as jy onwel voel.
- MOENIE braking veroorsaak nie.
- Versamel gemors.
- INDIEN INGESLUK: Kry onmiddellik mediese hulp.
- INDIEN OP DIE VEL(of hare): Trek onmiddellik alle gekontameneerde klere uit. Spoel vel af met water/stort.
- INDIEN INGESAEM: Verwyder persoon na vars lug en hou gemaklik om asem te haal.
- Indien velirritasie voorkom, kry mediese hulp.
- Trek besoedelde klere uit en was dit voor hergebruik.
- In geval van brand: Gebruik koolstofdiksied, droë chemikalieë of watersproei om te blus.
- INDIEN IN OË: Spoel dadelik uit met water vir 'n paar minute. Verwyder kontaklense indien teenwoordig en maklik om te doen. Gaan voort met spoel.
- Hou houer dig toe.
- Berg in 'n goed geventileerde plek. Hou koel.
- Stoor die produk toegesluit.
- Gooi inhoud of houer weg na 'n goedgekeurde afvalverwyderingsfasiliteit
- Moet nie dampe of spuitnewel inasem nie.
- Voorkom aanraking met oë en vel.
- Dra rubberhandskoene en gesigskerm wanneer konsentreer hanteer word.
- Moet nie eet, drink of rook tydens menging of toediening of voordat hande en gesig gewas en ander klere aangetrek is nie.
- Was met seep en water na gebruik en in geval van toevallige aanraking met vel.
- Was besoedelde klere daaglik.
- Voorkom wegdrywing van spuitnewel na ander gewasse, weiding, riviere, damme en areas nie onder behandeling nie.
- Maak toedieningstoerusting deeglik skoon na gebruik en gooi waswater weg waar die nie gewasse, weiding, riviere en damme sal besoedel nie.
- Spoel leë houer driekeer as volg uit: Keer die leë houer om oor die spuitenk of mengbak en dreineer vir minstens 30 sekondes nadat die vloeitot 'n gedrup verminder het. Spoel die houer daarna driekeer uit met 'n volume water gelykstaande aan 'n minimum van 10% van die van die houer. Gooi die spoelwater by die inhoud van die spuitenk voordat die houer op die voorgeskrywe wyse vernietig word.
- Vernietig die leë houer deur gate daarin te maak en plat te slaan en moet vir geen ander doel gebruik nie.
- Voorkom besoedeling van voedsel, voer, drinkwater en eetgerei.

Relevante stowwe

Komposisie	%
Difenoconazole	<25 %
Light Aromatic Petroleum Solvent	<70 %
Calcium Dodecyl Benzene Sulfonate	>4 %
Oleyl alcohol, ethoxylated	>4 %

WEERSTANDWAARSKUWING

Vir weerstandsbestuur is **BITRAD DIFENOCONAZOLE 250 EC** 'n groepkode **3** swamdoder. Enige populasie van 'n spesifieke swam mag individue insluit wat 'n natuurlike weerstand teen **BITRAD DIFENOCONAZOLE 250 EC**, of enige ander groepkode **3** swamdoder het. Indien hierdie swamdoders herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die swampopulasie oorheers. Hierdie weerstandbiedende swamme sal waarskynlik nie deur **BITRAD DIFENOCONAZOLE 250 EC** of enige ander groepkode **3** swamdoder beheer word nie.

Om weerstand teen swamdoders te vertraag:

- Vermoë eksklusiewe herhaaldelike gebruik van swamdoders met dieselfde groepkode.
- Wissel af met, of gebruik tenkengsels van swamdoders uit ander groepkodes.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies) in swamdoderprogramme.

Vir spesifieke inligting oor weerstandsbestuur, kontak die verspreider van hierdie produk.

GRONDTOEDIENING

Rygewasse

Dien in 300 tot 500 liter water per hektaar toe. Wanneer 'n konvensionele hoë volume spuitapparaat en newelblaser gebruik word, gebruik holkeëlsputpunte wat 'n medium tot fyn druppelgrootte lewer. Die spuitapparate moet akkuraat gekalibreer word en tydens toediening moet daar seker gemaak word dat die korrekte dosis per hektaar toegedien word en van goeie bedekking van gewas en eweredige verspreiding van spuitmengsel.

Sagtevrugteboorde: Volume water wat per hektaar toegedien moet word

Die volume water wat per hektaar in sagtevrugteboorde toegedien moet word, word volgens die Boomryvolume-formule soos deur Unrath beskryf, bereken:

Die formule is as volg:

$$\frac{\text{Boom hoogte} \times \text{boom diameter} \times 937}{\text{Ry wydte}} = \text{Volume water/ha wat toegedien moet word}$$

Die afmetings wat in die formule gebruik word, is dié van die boom met volle blaarbedekking.

Aangesien sagtevrugteboome nie altyd ten volle met blare bedek is nie, is die volume water wat per hektaar toegedien moet word tydens die vroeë groeistadia van die bome, as volg:

Van groenpunt tot 30 % blom	- 60 % van die HV wat toegedien moet word
Van ca. volblom tot ca. November	- 80 % van die HV wat toegedien moet word
Van ca. begin Desember	- 100 % van die HV wat toegedien moet word

Wanneer plaagbeheermiddels as lae volume bespuitings toegedien word, moet die korrekte hoeveelheid plaagbeheermiddel, soos bereken vir hoë volume bespuitings, per hektaar toegedien word.

Wingerde

Die hoeveelheid **BITRAD DIFENOCONAZOLE 250 EC** wat per hektaar toegedien moet word moet volgens ooreenkomstige behoefte vir hoë volume bespuiting bereken word. Gebruik die volgende as riglyn:

Groeistadium	Hoë volume spuitmengsel benodig in liter per hektaar	
	Tafeldruiwe	Wyndruiwe
Lootlengte 2,5 cm tot 25 cm	500 - 750	250 - 500
25 cm lootlengte tot net voor blom	750 – 1 000	500 - 750
Blom tot ertjekorrelstadium	1 000 – 1 200	750 – 1 000

LUGTOEDIENING

BITRAD DIFENOCONAZOLE 250 EC kan slegs deur 'n geregistreerde lugbespuitingsoperateur met 'n korrek gekalibreerde, geregistreerde vliegtuig volgens die instruksies van SANS 10118:2009 (The Aerial Application of Pesticides) uit die lug bespuit word. Verseker dat die spuitmengsel eweredig oor die teikenarea versprei word, en die verlies aan spuitmengsel tydens toediening tot 'n minimum beperk word. Dit is daarom belangrik om aan die volgende vereistes te voldoen:

- Volume: 'n Spuitmengsel volume van 30 liter per hektaar word aanbeveel. Hierdie produk is nie teen 'n verlaagde volume getoets nie. Die registrasiehouer kan nie effektiwiteit waarborg, of verantwoordelik gehou word vir enige nadelige effekte indien hierdie produk teen 'n laer volume, as hierbo aanbeveel, toegedien word nie.
- Druppel bedekking: 25 tot 35 druppels per cm² moet op die teikenarea herwin word.
- Druppelgrootte: 'n Druppelspektrum met 'n VMD van 280 tot 300 mikrons word aanbeveel. Beperk die produksie van druppels kleiner as 150 mikrons (hoë drywing en verdampingspotensiaal) tot 'n minimum.
- Vlieg hoogte: Handhaaf die hoogte van die spuitbalk bo die teiken op 3 tot 4 meter. Moet nie spuit wanneer die vliegtuig duik, uitklim of draai nie.
- Gebruik geskikte atomiseringsapparaat wat die vereiste druppelgrootte en bedekking sal produseer, maar die minste verlies van produk verseker. Die spuitstelsel moet 'n druppelspektrum met die kleinste moontlike relatiewe span produseer.
- Plaas al die atomiseerders in die binneste 60 tot 75% van die vlerkspan om te verhoed dat druppels binne-in die vlerkpuntvorteks beweeg.

- Die verskil in temperatuur tussen die nat- en droëboltermometer van 'n swaaihirometer, moet nie 8°C oorskry nie.
 - Staak bespuiting indien die windspoed 15 km per uur oorskry.
 - Staak bespuiting tydens turbulente, onstabiele en droë toestande gedurende die hitte van die dag.
 - Bespuiting onder temperatuur inversie toestande (deur bo of binne die inversie laag te spuit) en/of hoë lugvog toestande (relatiewe humiditeit 80% en meer) mag tot volgende probleme aanleiding gee:
 - verlaagde effektiwiteit aangesien die druppels as 'n wolk in die lug bly hang en moontlik verdamp (onvoldoende bedekking op teiken).
 - skade aan nie-teiken gewasse of sensitiewe areas as gevolg van wegdrywing van die spuitwolk na nie-teiken area.
 - Verseker dat die Lugbespuitingsoperateur presies weet watter lande bespuit moet word.
- Dit is noodsaaklik om 'n versekering van die Lugbespuitingsoperateur te verkry dat aan al die bogenoemde vereistes voldoen sal word en dat data van belang in 'n logboek saamgevat is vir toekomstige verwysing.

GEBRUIKSAANWYSINGS

Gebruik slegs soos aangedui.

ALGEMENE INLIGTING

Die aktiewe bestanddeel, difenakonasool, is 'n swamdoder wat lokaalsistemies is en beperkte akropetale beweging het. Wanneer in 'n beskermende spuitprogram toegedien word, is **BITRAD DIFENOCONAZOLE 250 EC** effektief vir die beheer van siektepatogene soos in die tabel hier onder genoem.

VERENIGBAARHEID

BITRAD DIFENOCONAZOLE 250 EC, is verenigbaar met mancozeb 800 benatbare poeier en captab 500 suspensie konsentrate vir gebruik in appels en pere. Dit is nie verenigbaar met Bordeaux-mengsel en kopersulfaat nie. Die verenigbaarheid van **BITRAD DIFENOCONAZOLE 250 EC** met ander produkte mag deur die formulering van die betrokke produkte asook die kwaliteit van die water beïnvloed word. Aangesien die formulering van die ander produkte sonder die wete van Bitrad Agri (Pty) Ltd mag verander endiekwaliteit van water van plaas tot plaas mag verskil, moet 'n fisiese verenigbaarheidstoets altyd voor bespuiting gedoen word.

MENGINSTRUKSIES

Maak die spuittenk halfvol met water en voeg die benodigde hoeveelheid **BITRAD DIFENOCONAZOLE 250 EC** by terwyl geroer word. Vul die spuittenk dan met water tot die verlangde volume. Hou aan om die spuitmengsel te roer. Dit word aanbeveel om roering tydens bespuiting van die spuitmengsel te volhou. Wanneer 'n benatbare poeier of suspensiekonsentraat saam met **BITRAD DIFENOCONAZOLE 250 EC** in 'n tenkmengsel gespuit word, moet die benatbare poeier of suspensiekonsentraat eers in die spuittenk gemeng word soos aangedui op die etikette van hierdie swamdoders en goed geroer word waarna die **BITRAD DIFENOCONAZOLE 250 EC** bygevoeg kan word en spuittenk tot verlangde volume gevul word. Verseker dat die spuitmengsel in spuittenk deeglik geroer word gedurende die aanmaak en bespuiting daarvan. Spuitmengsel moet dadelik gespuit word en nie toegelaat word om in die spuittenk te staan nie.

GEWAS / PLAAG	DOSIS	OPMERKINGS
APPELS EN PERE Skurfsiekte (<i>Venturia</i> spp.)	GRONDTOEDIENING 6 mℓ plus 100 mℓ kaptab 500 SC of 75 g mankoseb 800 WP per 100 ℓ water	Dien as 'n voldekbepuiting tot punt van afloop toe in 'n beskermende spuitprogram gedurende periodes waar toestande gunstig is vir die ontwikkeling van skurfsiekte. Begin spuit by groenpuntstadium en herhaal elke 7 dae tot aan die einde van die voorblomstadium. Gaan voort met bespuitings in die nablomperiode en herhaal bespuitings elke 10 tot 14 dae. Lees 'Sagtevrugteboorde: Volume water wat per hektaar toegedien moet word' onder 'GRONDTOEDIENING'.

GEWAS / PLAAG	DOSIS	OPMERKINGS
MIELIES EN SUIKERMIELIES Grysblaarvlek <i>(Cercospora. zeae-maydis)</i> Noordelike blaarskroei <i>(Helminthosporium. turcicum)</i>	LUGTOEDIENING 300 ml/ha	Grysblaarvlek: Begin spuit wanneer die siekte op die onderste blare van die plant voorkom en voor simptome op die drie blare direk onder die mieliekop en op meer as 2% van die blaaroppervlakte voorkom. 'n Bespuiting mag 14 tot 21 dae later nodig wees. Noordelike blaarskroei: Begin spuit met eerste tekens van die siekte en voor 2% van die blaaroppervlakte met die siekte besmet is. Herhaal bespuiting 14 tot 21 dae later.
TAFEL- en WYNDRUIWE Poeieragtige skimmel <i>(Oidium tuckeri)</i>	12 ml/100 l water	Dien in 'n spuitprogram as 'n voldekbepuiting tot die punt van afloop, toe. Maak seker dat deeglike bedekking ten alle tye verkry word. Begin spuit wanneer die lote 10 tot 25 cm lank is en herhaal bespuitings elke 14 dae. Moet nie meer as 4 bespuitings per seisoen toedien nie. Die laaste bespuiting moet nie later as trostoemaak [wanneer die stadium waar die korrels aan mekaar raak (berry touch) voltooi is] toegedien word nie. Vir die volume spuitmengsel wat per hektaar benodig word vir tafel- en wyndruiwe lees 'Wingerde' onder 'GRONDTOEDIENING'.