TEBUZIM 300 SC

Registration No. L10739 (Act No. 36 of 1947) Registrasie Nr. L10739 (Wet Nr. 36 van 1947)

Read the label before use
Keep out of reach of children and animals

A systemic suspension concentrate fungicide mixture for the control of the diseases on WHEAT as listed.

'n Sistemiese suspensiekonsentraat swamdodermengsel vir die beheer van die siektes op KORING soos aangedui.

Hazard Statements
Causes mild skin irritation.
May cause an allergic skin reaction.
May cause genetic defects.
May damage fertility; May damage the unborn child.
Very toxic to aquatic life with long lasting effects.

Precautionary Statements
Obtain, read and follow all safety instructions before use.
Avoid breathing dust/fume/gas/mist/ vapours/spray.

Danger

ACTIVE INGREDIENT:
Tebuconazole (triazole). 167 g/ℓ
Carbendazim (benzimidazole) 133 g/ℓ

AKTIEWE BESTANDDEEL:
Tebukonasool (triasool) 167 g/ℓ
Karbendasim (bensimidasool) 133 g/ℓ

Manufactured for and registered by/Vervaardig vir en geregistreer deur:
Sharda International Africa (PTY) LTD
Reg. No./Reg. Nr. 2010/002268/07
P. O. Box/Posbus 82021, Southdale, 2135
Tel: 031-764 3011

UN No./VN Nr. 3082

BATCH NUMBER LOT NOMMER	
DATE OF EXPIRY VERVAL DATUM	

NET CONTENTS / NETTO INHOUD

5 ℓ

REMOVE AFRIKAANS

ENGLISH

WARNINGS:

- WHEAT: DO NOT HARVEST OR GRAZE WITHIN 77 DAYS OF LAST APPLICATION.
- NOTE: The recommended withholding period between last application and harvest meets local residue requirements but may not meet export requirements. If the treated crop is intended for the export market, consult the relevant exporting body before application of the product, regarding pre-harvest interval requirements.
- Causes mild skin irritation.
- May cause an allergic skin reaction.
- May cause genetic defects.
- May damage fertility; May damage the unborn child.
- Very toxic to aquatic life with long lasting effects.
- Poisonous when absorbed through the skin or swallowed or inhaled.
- Irritating to the eye.
- Store in a cool place away from food and feedstuffs.
- 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 of the immediate area to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate adjacent areas or water. Please refer to the SANS Code of Practice for the aerial application of agricultural chemicals.

Although this fungicide 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 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:

- Obtain, read and follow all safety instructions before use.
- Avoid breathing dust/fume/gas/mist/ vapours/spray.
- Avoid release to the environment.
- Wear protective gloves/protective clothing/eye protection/face protection.
- IF ON SKIN: Wash with plenty of water and soap.
- If skin irritation occurs: Get medical help.
- Collect spillage.
- Store locked up.
- Dispose of contents/container to...
- Wash contaminated clothing daily.
- Do not eat, drink or smoke whilst mixing, applying or before washing hands and face.
- Avoid drift of spray on to other crops, grazing, rivers, dams and areas not under treatment.
- Clean applicator after use, dispose of wash water where it will not contaminate crops, grazing, rivers and dams.
- Rinse empty container three times with a volume water equal to at least one tenth of that of the container and add the rinsing's to the contents of the spray tank before disposing of the container in the prescribed manner.
- Prevent contamination of food, feedstuffs, drinking water and eating utensils.

RELEVANT SUBSTANCES:

Components	%
Tebuconazole	< 20
Carbendazim	< 15
Residues (petroleum), catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts	< 1
1,2-Benzisothiazol-3(2H)-one	< 1
Sodium hydroxide	< 1

RESISTANCE MANAGEMENT:

For resistance management, Tebuzim 300 SC is a group code 3 and 1 fungicide. Any fungus population may contain individuals naturally resistant to Tebuzim 300 SC and other group code 3 and 1 fungicides. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly. These resistant fungi may not be controlled by Tebuzim 300 SC or any other group code 3 and 1 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.
- Integrate other control methods (chemical, cultural, biological) into disease control programs.

For specific information on resistance management contact the registration holder of this product.

AERIAL APPLICATION: Aerial application of Tebuzim 300 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 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▯ 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/h.
- 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 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.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

MIXING INSTRUCTIONS: Pour the required quantity of Tebuzim 300 SC into the water while agitating. Do not allow the Tebuzim 300 SC spray mixture to stand any length of time before using.

Crop/Disease	Dosage rate	Remarks
WHEAT: (1)Tebuzim 300 SC should be applied at the first signs of infection before 5 % infection level is reached. (2)A second application 21 days after the initial application is recommended for wheat with a high yield potential, particularly in cases where the initial application was made early (first node stage) or when other diseases develop later in the season.		
Eye spot (*Pseudocercosporella herpotrichoides*) Powdery mildew (*Erysiphe graminis*) Speckled leaf blotch (*Septoria tritici*) Leaf rust (*Puccinia recondita*)	GROUND APPLICATION 750 mℓ/ha applied in 300 ℓ water AERIAL APPLICATION 750 mℓ/ha applied in 30 ℓ water GROUND APPLICATION 1125 mℓ/ha applied in 300 ℓ water AERIAL APPLICATION 1350 mℓ/ha applied in 30 ℓ water	Apply at first to second node stage. Spray as soon as symptoms are noticed, but not later than the flag leaf stage. Repeat application should symptoms reappear. Application must be made not later than the appearance of flag leaf. Spray as soon as symptoms are noticed, but not later than the flag leaf stage. Repeat application should symptoms reappear.

AFRIKAANS

WAARSKUWINGS:

- Onthoudings periode: Laat die volgende aantal dae toe tussen laaste toediening en oes (voer):
  Koring 77dae.
  Nota: Implimenteering van hierdie onthoudingsperiodes sal verseker dat die maksimum residuvlak (MRL) nie oorskry sal word nie.
- Skadelik indien ingesluk.
- Giftig vir visse en waterorganismes.
- Vermy oog en vel kontak want dit mag oog en vel irritasie veroorsaak.
- Berg weg van voedsel en voer.
- Hou buite bereik van kinders, oningeligte persone en diere.
- Herbetreding: Moet nie die behandelde area betree alvorens die spuitneerslag nie droog is nie, tensy beskermende klerasie gedra word.
- Lugtoediening: Stel alle inwoners in die onmiddellike 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 swamdoder 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 bergingtoestande; kwaliteit van verdunningswater, verenigbaarheid met ander stowwe wat nie op die etiket aangedui is nie, en die voorkoms van weerstand van die plaag 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 of dier, of vir **'n** gebrek aan prestasie as gevolg van die versuim van die gebruiker om etiketaanwysings na te kom of as gevolg van die ontstaan van toestande wat nie kragtens die registrasie voorsien kan word nie. Raadpleeg die verskaffer in geval van enige onsekerheid.

VOORSORGMAATREËLS

- Moenie eet, drink of rook tydens hantering van hierdie produk.
- Voorkom besoedeling van voedsel, voer, eetgerei en drinkwater.
- Dra handskoene en gesigskerm wanneer die konsentraat hanteer word.
- In die geval van oog kontak, spoel die oë met skoon water vir ten minste 15 minute uit.
- In die geval van toevallige velkontak was deeglik met seep en water.
- In die geval van besoedelde klere, verwyder en was deeglik.
- Spoel die leë houer drie keer uit met 'n volume water gelykstaande aan 'n minimum van 10% van die houer. Gooi die spoelwater by die inhoud van die spuittenk.
- Vernietig die leë houer deur gate daarin te maak en plat te slaan en moet vir geen ander doel gebruik nie.
- Vermy kontak met die spuitnewel tydens bespuiting.
- Voorkom die oorwaai van spuitmis na ander gewasse, weiding, riviere, damme of gebiede wat nie onder behandeling is nie.
- Maak die spuitapparaat deeglik skoon na gebruik en raak ontslae van uitspoelwater waar dit nie gewasse, weiding, riviere of damme sal besoedel nie.

Weerstandswaarskuwing;

Tebuzim 300 SC is 'n groepkode 3 en 1 swamdoder. Enige populasie van 'n spesifieke swam mag individue insluit wat 'n natuurlike weerstand teen Tebuzim 300 SC, of enige ander groepkode 3 en 1 swamdoder, het. Indien hierdie swamdoders herhaaldelik aangewend word, kan die weerstandbiedende swam uiteindelik die swampopulasie oorheers. Hierdie weerstandbiedende swampopulasie sal waarskynlik nie deur Tebuzim 300 SC of enige ander groepkode 3 en 1 swamdoder beheer word nie
Om weerstand teen swamdoders te vertraag: Vermy die eksklusiewe herhaaldelike gebruik van swamdoders met dieselfde groepkode. Wissel af met, of gebruik tenkmengsels van produkte in verskillende swamdodergroepkodes.

- Om te verhoed dat swampopulasies teen Tebuzim 300 SC bestand word, is dit noodsaaklik dat bespuitings van Tebuzim 300 SC met ander geregistreerde swamdoders van 'n verskillende swamdodergroep afgewissel word. Hierdie bestandheidbestuurstrategie moet nie afwisseling of tenkmengsels met swamdoders waar bestandheid voorkom of met die selfde werking insluit nie.
- Tebuzim 300 SC moet altyd soos aanbeveel toegedien word.
- Moenie die dosis wat op die etiket aanbeveel is, verminder nie.

Integreer ander beheermaatreëls (chemies, verbouing, biologies) in die swamdoder programme.
Vir spesifieke inligting oor weerstandsbestuur kontak die registrasiehouer van hierdie produk.

GEBRUIKSAANWYSINGS **Gebruik slegs soos aanbeveel.**

Verenigbaarheid: Tebuzim 300 SC is met baie swamdoders, insekdoders en mytdoders mengbaar. Mengbaarheid sal deur die formulasie van die tenkmengselproduk en die water kwaliteit beïnvloed word. 'n Kleinskaalse verenigbaarheidstoets met die tenkmengsel moet gedoen word voordat grootskaalse toediening.

Menginstruksies: Die houer moet onmiddellik na die giet van die benodigde hoeveelheid Tebuzim 300SC met die dop toegemaak word. Maak die spuittenk met skoon water halfvol; voeg die benodigde hoeveelheid Tebuzim 300SC by; maak die spuittenk tot by die gewenste volume vol. Indien ander produkte in 'n tenkmengsel gebruik gaan word, moet hulle eers met 'n klein hoeveelheid water verdun word en daarna by die spuittenk gevoeg voordat dit vol gemaak word.
Die spuitmengsel moet gedurende meng en bespuiting aanhoudend geroer word. Moet nie die spuitmengsel toelaat om sonder roering te staan nie.Alle etiket aanbevelings van die tenkmengsel produkte moet nagekom word.

Spuittoediening:
Alle spuittoerusting moet skoon en korrek gekalibreer word.
Grondspuittoerusting: Spuit tussen 150 en 400 ▯/ha afhangend van die gewas groeistadium.
Verseker dat die spuitvolume 'n egalige spuitdruppel verspreiding op die teiken plantoppervlaktes sal gee.
Indien dit binne 2 uur na bespuiting reën, sal dit nodig wees om die bespuiting te herhaal.

Lugbespuiting:
Tebuzim 300SC kan slegs deur 'n geregistreerde Lugbespuitingsoperateur met 'n korrek gekalibreerde, geregistreerde vliegtuig volgens die instruksies van SABS Kode 10118 (Aerial Application of Agricultural 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 - 40 liter per ha 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.
- Vlieghoogte: 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 swaaihigrometer, moet nie 8°C oorskry nie.
- Stop bespuiting indien die windspoed 15 k/uur oorskry.
- Stop 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.

GEWAS AANBEVELINGS;

Dien Tebuzim 300 SC as 'n volle dekbespuiting toe in 250ℓ - 500ℓ water/ha

Gewas / siekte	Toediening dosis	Aanmerkings
KORING: (1) Dien Tebuzim 300 SC toe sodra eerste tekens van besmetting waargeneem word voordat 5% besmetting bereik word. (2) 'n Tweede toeding 21 dae na eerste toediening word aanbeveel vir koring met 'n hoë opbrengs potensiaal, veral waar die eerste toediening vroeg aangewend was , voor eerste knoop stadium, of wanneer ander siektes later in die seisoen mag ontwikkel.		
Oogvlek (*Pseudocercosporella herpotrichoides*) Poeieragtige skimmel (*Erysiphe graminis*) Blaarvlek (*Septoria tritici*) Blaarroes (*Puccinia recondita*)	Grondtoediening 750 mℓ/ha toegedien in 300 ℓ water Lugbespuiting 750 mℓ/ha toegedien in 30 ℓ water GRONDTOEDIENING 1125 mℓ/ha toegedien in 300 ℓ water Lugbespuiting 1350 mℓ/ha toegedien in 30 ℓ water	Dien toe teen eerste of 2 de node stadium Begin bespuiting sodra eerste tekens van besmetting waargeneem word maar nie later as die vlagblaarstadium nie. Herhaal bespuiting indien simptome weer verskyn. Toediening moet nie later geskiet as die verskyning van die vlagblaar nie Begin toediening sodra simptome van besmetting waargeneem word maar nie later as vlagblaarstadium nie. Herhaal bespuiting indien besmetting weer verskyn.