



HYPER 28 SC

Reg. No. L10305, Act No. 36 of 1947 | Reg. Nr. L10305, Wet Nr. 36 van 1947

A Suspension concentrate systemic fungicide for the preventive control of Leaf rust, Net blotch and Yellow rust in Barley and Yellow rust, leaf rust, Powdery mildew, glume blotch and Speckled leaf blotch in Wheat and Leaf Rust (Phakopsora pachyrhizi) in Soya beans.

'n Gesuspenseerde konsentraat sistemiese swamdoder vir die voorkomende beheer van Geelroes, Blaarroes en Netvlek in gars en Blaarroes, Geelroes, poeieragtige meeldou, Vaalblaar en Bruinaarsiekte in koring en Blaarroes (Phakopsora pachyrhizi) in Soya beans.

FUNGICIDE Group 11 & 3

ACTIVE INGREDIENT:

200g/l Azoxystrobin SC
80 g/l Cyproconazole SC

SWAMDODER groep 11 & 3

AKTIEWE BESTANDDEEL:

200g/l Azoxystrobin SC
80 g/l Cyproconazole SC

Registration Holder / Registrasiehouer

Sharda International Africa (PTY) LTD

Reg. No./Reg. Nr. 2010/002268/07

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HYPER 28 SC® is the registered trade mark of Sharda International Africa cc
HYPER 28 SC® is die geregistreerde handelsmerk van Sharda International Africa cc

BATCH NUMBER LOT NOMMER	
EXPIRY DATE VERVAL DATUM	

NET CONTENTS /
NETTO INHOUD

5 l

UN No./VN Nr. 3082



HARMFUL
SKADELIK



WARNINGS:• **Withholding periods:**

Barley	63 days
Wheat	63 days
Soya Beans	40 days

Note: Compliance with these withholding periods will ensure that residues do not exceed local Maximum Residue Limits.

- Harmful if swallowed.
- Toxic to fish and harmful to other aquatic life.
- Avoid contact with skin or eyes since this product may cause eye and skin irritation.
- Store away from food and feed.
- Keep out of reach of children, uninformed persons and animals.
- **Re-entry:** 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 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 this fungicide, 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 eat drink or smoke whilst handling this product.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Wear rubber gloves and a face shield when handling the concentrate.
- In the case of eye contact, immediately rinse eyes with clean water for at least 15 minutes.
- In the case of skin contact, wash thoroughly with soap and water.
- In the case of contaminated clothes, remove them and wash thoroughly.
- Rinse the empty container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsings to the contents of the spray tank.
- Destroy the container in the prescribed manner by flattening and perforation and do not use for any other purpose.
- While spraying, avoid contact with the spray.
- Avoid spray drift onto other crops, grazing, rivers, dams or areas not under treatment.
- Clean applicator thoroughly after use and dispose of wash water where it will not contaminate crops, grazing, rivers or dams.

Resistance Management

For resistance management, **Hyper 28 SC** is classified as a Group 3 fungicide. Any fungus population may contain individuals naturally resistant to **Hyper 28 SC** and other Group 3 fungicides. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly and exclusively in programs. These resistant fungi may not be controlled by **Hyper 28 SC** or any other Group 3 fungicides.

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

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

- **Hyper 28 SC** should always be applied as recommended.
- Do not reduce the dosage rates below that recommended on the label.

DIRECTIONS FOR USE

Use only as indicated.

Compatibility:

Hyper 28 SC is compatible with many fungicides, insecticides and acaricides. However, compatibility will be influenced by the formulation of tank mix product and the spray water quality. A small scale compatibility test with any tank mix must be carried out before any large scale application.

Mixing Instructions:

Replace the container cap immediately after pouring the required quantity of **Hyper 28 SC**.

Half fill the spray tank with clean water; add the required quantity of **Hyper 28 SC** to the spray tank; fill the spray tank to the required capacity. If other products are to be used in a tank mix, they should be diluted with a small quantity of water, thoroughly mixed and then added to the spray tank before filling to the required capacity.

The spray mixture must be agitated during mixing and spraying. Do not allow the spray mix to stand without agitation.

All label recommendations of tank mix products must be followed.

Spray Application:

All spray equipment must be clean and correctly calibrated.

Ensure a spray volume that will give an even spray droplet distribution on the target plant surfaces.

Ground equipment: Spray 150 to 450 l per ha depending on crop growth stage.

If it rains within 2 hours of application, it will be necessary to re-apply the product.

Aerial Application:

Aerial application of **Hyper 28 SC** may only be done by a registered Aerial Application Operator using a correctly calibrated, registered aircraft according to the instructions of SABS 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:

- **Volume:** A spray mixture volume of 30 to 40 l 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 on the target area.
- **Droplet size:** A droplet spectrum with a VMD of 280 to 300 microns is recommended. Limit the production of fine droplets of 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 metres 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.

Crop Recommendations:

Apply **Hyper 28 SC** as a full cover spray in 250 l - 500 l water/ha

CROP/ DISEASE	DOSAGE RATE	REMARKS
Wheat Yellow rust (<i>Puccinia recondita</i>) Yellow/stripe rust (<i>Puccinia striiformis</i>) Powdery mildew (<i>Erysiphe graminis</i>) Glume blotch (<i>Septoria nodorum</i>) Speckled leaf blotch (<i>Septoria tritici</i>)	500 ml/ha	Ground and aerial application. Apply first application after third leave before 5% infection of laeve surface infection. Repeat second application 21 days later . Do not make more than two applications of HYPER 28SC during the same season.
Barley Yellow rust (<i>Puccinia striiformis tritici</i>) Leaf rust (<i>Puccinia hordei</i>) Net blotch (<i>Rhynchosporium secalis</i>)	500 ml/ha	Ground and aerial application. Apply first application at first signs of infection but not after six leave stage. Second application 21 days later. Do not make more than two applications of HYPER 28SC during the same season.
Soya Beans Leaf Rust (<i>Phakopsora pachyrhizi</i>)	300 ml/ha	Ground and aerial application. Start first application at first signs of infection or at start of flowering. Follow up with second application 22 days later. Do not make more than two applications of HYPER 28SC during the same season.

WAARSKUWINGS

- Onthoudingsperiode: Laat die volgende aantal dae toe tussen laaste toediening en oes (voer):

Gars	63 dae
Koring	63 dae
Soja Bone	40 dae

Nota: Implementering van hierdie onthoudingsperiodes sal verseker dat die maksimum residuvlak (MRL) nie oorskry sal word nie.

- Skadelik indien ingesluk.
- Giftig vir visse en waterorganismes.
- Vermyn 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 versum van die gebruiker om etiket aanwysings 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.

VOORSORGMATREËLS

- 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 klerie, verwyder en was deeglik.
- Spoel die lê 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 spuit tenk.
- Vernietig die lê houer deur gate daarin te maak en plat te slaan en moet vir geen ander doel gebruik nie.
- Vermyn kontak met die spuitnewel tydens bespuiting.
- Voorkom die oorwaai van spuitnewel na ander gewasse, weiding, riviere, damme of gebiede wat nie onder behandeling is nie.
- Maak die spuit apparaat deeglik skoon na gebruik en raak ontslae van uitspoelwater waar dit nie gewasse, weiding, riviere of damme sal besoedel nie.

Weerstandswaarskuwing

Hyper 28 SC is 'n groepkode 11 & 3 swamdoder. Enige populasie van 'n spesifieke swam individue insluit wat 'n natuurlike weerstand teen **Hyper 28 SC**, of enige ander groepkode 11 & 3 swamdoder, het. Indien hierdie swamdoders herhaaldelik aangewend word, kan die weerstandbiedende swam uiteindelik die swampopulasie oorheers. Hierdie weerstandbiedende swampopulasie sal waarskynlik nie deur **Hyper 28 SC** of enige ander groepkode 11 & 3 swamdoder beheer word nie.

Om weerstand teen swamdoders te verhoog:

- Vermyn die eksklusiewe herhaaldelike gebruik van swamdoders met dieselfde groepkode. Wissel af met, of gebruik tenkingsels van produkte in verskillende swamdodergroepcodes.
- Om te verhoed dat swampopulasies teen **Hyper 28 SC** bestand word, is dit noodsaaklik dat bespuitings van **Hyper 28 SC** met ander geregistreerde swamdoders van 'n verskillende swamdodergroep afgewissel word. Hierdie bestandheidsbestuurstrategie moet nie afwisseling of tenkingsels met swamdoders waar bestandheid voorkom of met die selfde werking insluit nie.
- Hyper 28 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:

Hyper 28 SC is met baie swamdoders, insekdoders en mytdoders mengbaar. Mengbaarheid sal deur die formulering van die tenkingselprodukt en die water kwaliteit beïnvloed word. 'n Kleinskaalse verenigbaarheidstoets met die tenkingsel moet gedoen word voordat grootskaalse toediening.

Menginstruksies:

Die houer moet onmiddellik na die giet van die benodigde hoeveelheid **Hyper 28 SC** met die dop toegemaak word.

Maak die spuitenk met skoon water halfvol; voeg die benodigde hoeveelheid **Hyper 28 SC** by; maak die spuitenk tot by die gewenste volume vol. Indien ander produkte in 'n tenkingsel gebruik gaan word, moet hulle eers met 'n klein hoeveelheid water verdun word en daarna by die spuitenk 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 tenkingsel produkte moet nagekom word.

Spuittoediening:

Alle spuittoerusting moet skoon en korrek gekalibreer word.

Grondspuittoerusting: Spuit tussen 150 en 400 l/ha afhangend van die gewas groeistadium. Verseker dat die spuitvolume 'n egalige spuitdruppel verspreiding op die teiken plantoppervlakte sal gee.

Indien dit binne 2 uur na bespuiting reën, sal dit nodig wees om die bespuiting te herhaal.

Lugbespuiting:

Hyper 28 SC 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 drying 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 km/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 wegdrying 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.

Gewasaanbevelings:

Dien **Hyper 28 SC** as 'n volle dekbespuiting toe in 250l - 500l water/ha

GEWAS/ SIEKTE	DOSIS	OPMERKINGS
Koring Blaarroes (<i>Puccinia recondita</i>) Poeieragtige meeldou (<i>Erysiphe graminis</i>) Geelroes/streeproes (<i>Puccinia striiformis</i>) Vaalblaar (<i>Septoria tritici</i>) Bruinaarsiekte (<i>Septoria nodorum</i>)	500 ml/ha Spuitvolumes: Grondtoediening: 200 - 300 l water/ha Lugtoediening: 30 - 40 l water/ha	Grond- en lugbespuiting. Dien eerste bespuiting toe na derde blaar voor 5% van die blaaroppervlakte besmet is. Herhaal tweede bespuiting 21 dae later Moet nie meer as twee bespuitings doen met HYPER 28 SC gedurende dieselfde seisoen nie.
Gars Geelroes (<i>Puccinia striiformis tritici</i>) Blaarroes (<i>Puccinia hordei</i>) Netvlek (<i>Rhynchosporium secalis</i>)	500 ml/ha Spuitvolumes: Trektoediening: 200 - 300 l water/ha Lugtoediening: 30 - 40 l water/ha	Grond- en lugbespuiting. Dien toe met eerste tekens van infeksie maar nie na 6 blaarstadium nie. Volg op met tweede bespuiting 21 dae later. Moet nie meer as twee bespuitings doen met HYPER 28 SC gedurende dieselfde seisoen nie.
Soja bone Soja boon roes (<i>Phakopsora pachyrhizi</i>)	300 ml/ha Spuitvolumes: Trektoediening: 200 - 300 l water/ha Lugtoediening: 30 - 40 l water/ha	Grond- en lugbespuiting. Dien toe met eerste simptome van besmetting of met aanvang van blom en volg op met tweede bespuiting 22 dae later. Moet nie meer as twee bespuitings doen met HYPER 28 SC gedurende dieselfde seisoen nie.