



SOPRANO 125 SC

Reg. No. / Nr L 8338 Act / Wet 36 of / van 1947

A suspension concentrate systemic fungicide for the control of diseases as listed on barley and coffee.	'n Suspensiekonsentraat sistemiese swamdoder vir die beheer van siektes soos aangedui op gars en koffie.
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HRAC FUNGICIDE GROUP CODE	3	HRAC SWAMDODER GROEPKODE
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ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL

Epoxiconazole (triazole)125 g / ℓ Epoksikonasool (triasool)

NET VOLUME / NETTO VOLUME

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REGISTRATION HOLDER / REGISTRASIEHOUER

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Batch number Lotnommer

Date of manufacture Vervaardigingsdatum

				CAUTION VERSIGTIG		
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WARNINGS

Allow the following number of days between last application and harvest:

Barley (do not graze)	60 days
Coffee.....	28 days

- Handle with care.
- Toxic to fish.
- Store away from food, feed and drinking water.
- Keep under lock and key out of reach of children, uninformed persons and animals.
- **Aerial application:** Notify all inhabitants in the immediate vicinity of the area to be treated and issue the necessary warnings. Do not spray over water or adjacent areas or allow the spray mist to drift over it.
- **Re-entry interval:** Do not enter treated field until spray deposit has dried unless wearing protective clothing.

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 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

- Do not inhale spray mist.
- Do not eat, drink or smoke while the product is being handled.
- Avoid contamination of food, feed, drinking water and eating utensils.
- Avoid contact with skin and eyes. Wear rubber gloves and a face shield when the concentrate is being handled. If it comes into contact with the eyes, rinse immediately with water. If it comes into contact with the skin, wash off immediately. If it is spilled onto clothes, take them off and wash immediately.
- Prevent spray drift onto other crops, grazing, rivers or dams.
- Invert the empty container over the spray 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 equivalent to at least 10% of the container. Add the rinsings to the contents of the tank before destroying the container by perforating and flattening it.
- After use, clean the applicator thoroughly and dispose of the wash water where it will not contaminate other crops, grazing, rivers or dams.

RESISTANCE WARNING

For resistance management **SOPRANO 125 SC** is a group code 3 fungicide. Any fungal population may contain individuals naturally resistant to **SOPRANO 125 SC** and other group code 3 fungicide. The resistant individuals can eventually dominate the fungal population if these fungicides are used exclusively and repeatedly in programs. These resistant fungi may not be controlled by **SOPRANO 125 SC** or any other group code 3 fungicides. To delay fungicide resistance:

- Avoid exclusive repeated use of fungicides from the same group codes. Alternate or tank mix with products from different fungicide group codes.

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

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

DIRECTIONS FOR USE

Use only as directed.

COMPATIBILITY

SOPRANO 125 SC is compatible with BROMOTRIL P 500 SC (Reg. No. L 7019) and MAKHRO MCPA (Reg. No. L 7809). The compatibility of **SOPRANO 125 SC** can, however, be influenced by the quality of the dilution water and the products with which it is mixed. It is therefore advisable to test for compatibility by mixing small amounts together before mixing in the spray tank.

APPLICATION

Ground application:

SOPRANO 125 SC can be applied by means of any suitable medium or high volume spray apparatus provided it is equipped with an efficient agitation mechanism, is able to distribute the spray mixture evenly over the target area and is calibrated correctly.

Aerial application:

Aerial application of **SOPRANO 125 SC** may only be done by a registered Aerial Application Operator using a correctly calibrated, registered aircraft according to the instructions of SANS Code 0118 (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 l / ha 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 aurally at a lower volume rate than recommended above.
- **Droplet coverage:** 25 - 35 droplets / cm² must be recovered at the target area.
- **Droplet size:** A droplet spectrum with a VMD of 280 - 300 micron is recommended. Limit the production of fine droplets less than 150 micron (high drift and evaporation potential) to a minimum.
- **Flying height:** Maintain the height of the spray boom at 3 - 4m above the target. Do not spray when aircraft is diving, climbing 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 - 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:
 - a) reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage).

- b) 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/ DISEASE	DOSAGE RATE	REMARKS
BARLEY Leaf rust (<i>Puccinia hordei</i>)	0.8 ℓ / ha	Commence application as soon as infection is noticed and if necessary repeat the application 3 – 5 weeks later in 200 – 400 ℓ water / ha Aerial application: Apply in 30 – 40 ℓ water / ha.
Leaf spot (<i>Rhynchosporium secalis</i>)	0.8 ℓ / ha	Commence application when infection occurs between the 7 and flag leaf stage in 200 – 400 ℓ water / ha. Aerial application: Apply in 30 – 40 ℓ water / ha.
Net blotch (<i>Pyrenospora teres</i>)	0.8 ℓ / ha	Apply as a preventative application between the 7 and flag leaf stages. If necessary repeat 3 – 5 weeks later. Use 200 – 400 ℓ water / ha. Aerial application: Apply in 30 – 40 ℓ water / ha.
COFFEE Coffee rust (<i>Hemileia vastatrix</i>)	0.6 ℓ / ha	Apply SOPRANO 125 SC as a preventative spray preferably in January. Use in a spray programme with other registered, non-triazole fungicides e.g. copper containing products. Repeat the application 28 days later if there are medium to high disease-pressure conditions. Do not exceed two SOPRANO 125 SC applications in one season. Use 500 – 1000 ℓ water / ha to ensure thorough wetting of plants.

WAARSKUWINGS

Laat die volgende aantal dae toe tussen die laaste toediening en oes:

Gars (moet nie bewei) 60 dae
Koffie 28 dae

- Hanteer versigtig.
- Giftig vir visse.
- Berg weg van voedsel, voer en drinkwater.
- Berg onder slot en grendel buite bereik van kinders, oningeligte persone en diere.
- **Lugtoediening:** Stel alle inwoners in die onmiddelijke omgewing wat behandel gaan word in kennis en reik die nodige waarskuwings uit. Moet nie oor water of aangrensende gebiede spuit of toelaat dat die spuitnewel daarvoor dryf nie.
- **Herbetredingsinterval:** Moet nie behandelde gebied binnegaan voordat die spuitneerslag droog is nie tensy beskermende klere gedra word.

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 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 siekte 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 van die betrokke middel 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 kon word nie. Raadpleeg die verskaffer in geval van enige onsekerheid.

VOORSORGMATREELS

- Moenie spuitmis inasem nie.
- Moet nie eet, drink of rook terwyl die produk hanteer word nie.
- Verhoed besoedeling van voedsel, voer, drinkwater en eetgerei.
- Vermyn kontak met die vel en oë. Dra rubberhandskoene en 'n gesigskerm as die konsentraat hanteer word. Indien dit in die oë kom spoel onmiddellik met water uit. Indien dit met die vel in aanraking kom, was dit onmiddellik af. Indien dit op klere gemors het, trek dit uit en was dit onmiddellik.
- Verhoed dat die spuitnewel oorwaai na ander gewasse, weiding, riviere of damme.
- Keer die leë houer om oor die spuit- of mengtenk en laat vir ten minste 30 sekondes dreineer nadat die vloeitot 'n gedrup verander het. Spoel daarna die leë houer drie keer uit met 'n volume water gelykstaande aan minstens 10% van die volume van die houer. Gooi die spoelwater in die tenk voordat die leë houer vernietig word deur dit te perforeer en plat te druk.
- Maak die toediener deeglik skoon na gebruik en gooi die waswater uit waar dit nie gewasse, weidings, riviere of damme sal besoedel nie.

WEERSTANDSWAARSKUWING

Vir weerstandsbestuur in **SOPRANO 125 SC** 'n groepkode 3 swamdoder. Enige swampopulasie mag individue hê wat 'n natuurlike weerstand teen **SOPRANO 125 SC** en ander groepkode 3 swamdoders het. Die weerstandbiedende individue kan uiteindelik die swampopulasie domineer indien hierdie swamdoders eksklusief en aanhoudend gebruik word in programme. Hierdie weerstandbiedende swamme mag nie deur **SOPRANO 125 SC** en ander groepkode 3 swamdoders beheer word nie. Om die voorkoms van weerstand te vertraag, kan die volgende gedoen word.

- Vermoed die eksklusiewe aanhoudende gebruik van swamdoders in dieselfde swamdodergroepkodes. Wissel af of maak tenkmengsel met swamdoders van ander swamdodergroepkodes.
- Integreer ander beheermetodes (chemiese, bewerking, biologies) in swamdoder beheerprogramme.

Vir spesifieke inligting rakende weerstandsbestuur, skakel die registrasiehouer van hierdie produk.

GEBRUIKSAANWYSINGS

Gebruik slegs soos aangedui

VERENIGBAARHEID

SOPRANO 125 SC is verenigbaar met BROMOTRIL P 500 SC (Reg. Nr L 7019) en MAKHRO MCPA (Reg. Nr L 7809). Die verenigbaarheid van **SOPRANO 125 SC** kan beïnvloed word deur die kwaliteit van verdunningswater en die produkte waarmee dit vermeng word. Dit word dus aanbeveel dat klein hoeveelhede eers vooraf vermeng word voor dit in die spuittenk vermeng word.

TOEDIENING

Grondtoediening:

SOPRANO 125 SC kan deur middel van enige geskikte medium- of hoë volume spuitapparaat toegedien word, mits dit toegerus is met 'n doeltreffende roermeganisme, in staat is om die spuitmengsel eweredig oor die teikenoppervlak te versprei en korrek gekalibreer is.

Lugtoediening:

SOPRANO 125 SC kan slegs deur 'n geregistreerde Lugbespuitingsoperateur met 'n korrek gekalibreerde, geregistreerde vliegtuig volgens die instruksies van SANS Kode 0118 (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 l / 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.
- Druppelbedekking: 25 - 35 druppels / cm² moet op die teikenarea herwin word.
- Druppelgrootte: 'n Druppelspektrum met 'n VMD van 280 - 300 mikron word aanbeveel. Beperk die produksie van druppels kleiner as 150 mikron (hoë drywing en verdampingspotensiaal) tot 'n minimum.
- Vlieghoogte: Handhaaf die hoogte van die spuitbalk bo die teiken op 3 - 4m. 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 binnste 60 - 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 swaaihieter, moet nie 8°C oorskry nie.
- Stop bespuiting indien die windspoed 15km / u 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 doeltreffendheid 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.

TOEDIENINGSHOEVEELHEDE

GEWAS / SIEKTE	DOSIS	OPMERKINGS
GARS Blaarroes <i>(Puccinia hordei)</i> Blaarvlek <i>(Rhynchosporium secalis)</i> Netvlek <i>(Pyrenophora teres)</i>	0.8 ℓ / ha 0.8 ℓ / ha 0.8 ℓ / ha	Begin met toediening sodra die siekte waargeneem word. Indien nodig moet die bespuiting 3 – 5 weke later herhaal word. Dien toe in 200 – 400 ℓ water / ha. Lugtoediening: Dien toe in 30 – 40 ℓ water / ha. Dien toe in 200 – 400 ℓ water / ha as die siekte tussen die 7 en vlagblaarstadiums voorkom. Lugtoediening: Dien in 30 – 40 ℓ water / ha toe. Dien as ‘n voorkomende bespuiting toe in 200 – 400 ℓ water / ha toe. Indien nodig, herhaal 3 – 5 weke later. Lugtoediening: Dien in 30 – 40 ℓ water / ha toe.
KOFFIE Koffieroes <i>(Hemileia vastatrix)</i>	0.6 ℓ / ha	Dien SOPRANO 125 SC as ‘n voorkomende bespuiting, verkieslik in Januarie toe. Gebruik in ‘n spuitprogram met ander geregistreerde nie-triasoolmiddels soos bv. Koperbevattende middels. Herhaal die toediening 28 dae later indien die infestasië druk toestand medium tot hoog is. Moet nie meer as twee SOPRANO 125 SC toedienings in een seisoen toedien nie. Gebruik 500 – 1000 ℓ water / ha om ‘n deeglike benatting te verseker.