



# SOPRANO<sup>®</sup> 125 SC

Reg. no. L8338 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.

FRAC FUNGICIDE GROUP CODE                      3                      FRAC SWAMDODER GROEPKODE

## ACTIVE INGREDIENT/AKTIEWE BESTANDEEL

epoxiconazole (triazole) ..... 125 g/l ..... epoksikonasool (triasool)

## NET VOLUME/NETTO VOLUME

..... l

## REGISTRATION HOLDER/REGISTRASIEHOUER

ADAMA South Africa (Pty.) Ltd.

Reg. no. 1992/001741/07

21 Viben Street

7560 Brackenfell

T: +27 21 982 1460 F: +27 21 982 5810

infocpt@adama.com

**SOPRANO<sup>®</sup> is a registered trademark of a company of the ADAMA GROUP.  
SOPRANO<sup>®</sup> is 'n geregistreerde handelsmerk van 'n maatskappy van die ADAMA GROEP.**

## CONTACT IN EMERGENCY/KONTAK IN NOOD

Griffon Poison Information Centre: +27 82 446 8946

Batch number .....  
Date of manufacture .....

Lotnommer .....  
Datum van vervaardiging .....

UN no.: 3082



## WARNINGS

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

<b>Barley (do not graze)</b> .....	60 days
<b>Coffee</b> .....	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 this.
- **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 humans 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 handling the product.
- 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 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 equivalent to at least 10 % of the volume 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 the purpose of resistance management **SOPRANO® 125 SC** is classified as 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 fungicide 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. L7019) and MAKHRO MCPA (Reg. no. L7809). 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 10118 (Aerial Application of Agricultural Pesticides). Ensure that the spray mixture is distributed evenly over the target area and that the loss of spray mixture 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 aerially at a lower volume rate than recommended above.
- Droplet coverage: 25–35 droplets/cm<sup>2</sup> 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 to 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:
  - 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.
- It is important to obtain 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 AND DISEASE	DOSAGE RATE	REMARKS
<b>BARLEY</b> Leaf spot ( <i>Rhynchosporium secalis</i> )	0.8 l/ha	Commence application when infection occurs between the 7-leaf and flag leaf stage in 200–400 l water/ha.  Aerial application: Apply in 30–40 l water/ha.
Net blotch ( <i>Pyrenophora teres</i> )	0.8 l/ha	Apply as a preventative application between the 7 and flag leaf stages. If necessary repeat 3 to 5 weeks later. Use 200–400 l water/ha.  Aerial application: Apply in 30–40 l water/ha.
<b>COFFEE</b> Coffee rust ( <i>Hemileia vastatrix</i> )	0.6 l/ha	Apply <b>SOPRANO® 125 SC</b> as a preventative spray preferably in January. Apply in a spray programme with other registered, non-triazole fungicides, e.g. copper-containing products.  Repeat the application 28 days later if medium to high disease pressure conditions occur. Do not exceed two <b>SOPRANO® 125 SC</b> applications in one season. Use 500–1000 l water/ha to ensure thorough wetting of plants.

## WAARSKUWINGS

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

<b>Gars (moet nie bewei nie)</b> .....	60 dae
<b>Koffie</b> .....	28 dae

- Hanteer versigtig.
- Giftig vir visse.
- Berg weg van voedsel, voer en drinkwater.
- Berg agter slot en grendel buite bereik van kinders, oningeligte persone en diere.
- **Lugtoediening:** Stel alle inwoners in die onmiddellike omgewing van die gebied wat behandel moet word in kennis en reik die nodige waarskuwings uit. Moet nie oor water of aangrensende gebiede spuit of toelaat dat die spuitnewel daaroor dryf nie.
- **Herbetredingsinterval:** Moet nie die 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.**

## VOORSORGMAATREËLS

- Moenie spuitmis inasem nie.
- Moet nie eet, drink of rook terwyl die produk hanteer word nie.
- Verhoed kontaminasie 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 vloeï tot '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 ander gewasse, weidings, riviere of damme sal besoedel nie.

## WEERSTANDSWAARSKUWING

Vir weerstandsbestuur is **SOPRANO® 125 SC** geklassifiseer as '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 oorheers 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:

- Vermyn 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, kontak die registrasiehouer van hierdie produk.

## GEBRUIKSAANWYSINGS

**Gebruik slegs soos aangedui.**

## VERENIGBAARHEID

**SOPRANO® 125 SC** is verenigbaar met BROMOTRIL P 500 SC (Reg. nr. L7019) en MAKHRO MCPA (Reg. nr. L7809). 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 om verenigbaarheid te toets deur klein hoeveelhede eers vooraf te meng voor dit in die spuitmengsel 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 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 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/cm<sup>2</sup> 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 minimum 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 swaaihigrometer moet nie 8 °C oorskry nie.
- Stop bespuiting indien die windspoed 15km/h oorskry.
- Stop bespuiting tydens turbulente, onstabiele en droë toestande gedurende die hitte van die dag.
- Bespuiting onder temperatuur inversietoestande (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 ander sensitiewe gewasse en/of nie-teikenareas as gevolg van wegdrywing van die spuitwolk vanaf die 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 EN SIEKTE	DOSIS	OPMERKINGS
<b>GARS</b> Blaarvlek <i>(Rhynchosporium secalis)</i>	0.8 l/ha	Begin toediening as die siekte tussen die 7-blaar- en vlagblaarstadiums voorkom. Dien toe in 200–400 l water/ha.  Lugtoediening: Dien in 30–40 l water/ha toe.
Netvlek <i>(Pyrenophora teres)</i>	0.8 l/ha	Dien as 'n voorkomende bespuiting toe tussen die 7- en vlagblaarstadium. Indien nodig, herhaal 3 tot 5 weke later. Dien toe in 200–400 l water/ha.  Lugtoediening: Dien in 30–40 l water/ha toe.
<b>KOFFIE</b> Koffieroes <i>(Hemileia vastatrix)</i>	0.6 l/ha	Dien <b>SOPRANO® 125 SC</b> 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 infestasiedruktoestande medium tot hoog is. Moet nie meer as twee <b>SOPRANO® 125 SC</b> toedienings in een seisoen toedien nie. Gebruik 500–1000 l water/ha om 'n deeglike benatting van plante te verseker.