BISTRO 250 SC

Withholding periods:

Citrus (excluding lemons)………………………………………………………………………… 77 Days

NOTE: Withholding periods above are based on local requirements for residue levels and may differ from other countries to which treated products may be exported.

- Handle with care
- May cause eye and skin irritation. Harmful if swallowed or inhaled. Toxic to fish and other aquatic life.
- Store under lock and key in a cool place .
- Store away from food, feed, seed and other agricultural chemicals.
- Keep away from children, uninformed persons and animals.
- **Re-entry**: Do not enter treated area until spray deposit has dried unless wearing protective clothing.
- **BISTRO 250 SC** has been tested on the most important commercial cultivars without any phytotoxic effects. More susceptible cultivars may be released in future, which will need to be tested; for this, apply **BISTRO 250 SC** to a limited test area before commercial applications are made.

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 the 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

- Avoid contact with eyes, skin and inhalation of fumes and spray mist.
- Wear protective clothes and face shield when preparing the spray mixture and during spraying.
- In case of direct contact with skin, wash with soap and water.
- In case of direct eye contact, rinse for several minutes with clean water and seek medical advice if necessary.
- Wash contaminated clothing daily.
- Do not eat, drink or smoke while preparing or applying the spray mix or before washing face and hands.
- Avoid drift of spray mist onto other crops, grazing, rivers, dams and other areas not under treatment.
- Clean equipment before and after use. Dispose of wash water where it will not contaminate crops, pastures, rivers, dams or other water sources.
- Rinse empty container three times with a volume of water equal to a minimum of 10 % of that of the container. Add rinsings to the contents of the spray tank before destroying the container in the prescribed manner.
- Destroy empty containers in an approved manner and do not use the empty container for any other purpose.
- Prevent contamination of food, feed, drinking water and eating utensils.

FIRST AID TREATMENT

Inhalation: Remove patient to fresh air. Loosen clothing around neck. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. **Seek medical assistance immediately.**

Skin contact: Immediately remove contaminated clothing and flush body and clothes with large amounts of water. Wash contaminated clothing before re-use. Seek medical assistance if irritation persists.

Eye contact: Flush eyes with plenty of water for at least 15 minutes holding eyelids open. Remove contact lenses. **Seek medical assistance immediately**.

Ingestion: Never give anything by mouth to an unconscious person. Do not induce vomiting. For advice, contact the National Poisons Centre. **Seek medical assistance immediately**.

NOTE TO PHYSICIAN
No specific antidote, treat symptomatically.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED.

Read the entire label before application.

MODE OF ACTION

BISTRO 250SC is a fungicide with protective, curative, eradicative, residual, translaminar and systemic properties. It acts by inhibiting spore germination and mycelia growth and also shows antisporulant activity.

RESISTANCE MANAGEMENT

For resistance management, **BISTRO 250SC** is a group code 11 fungicide. Any fungus population may contain individuals naturally resistant to **BISTRO 250SC** and other group code 11 fungicides. The resistant individuals can eventually dominate the disease population if these fungicides are used repeatedly. These resistant individuals may not be controlled by **BISTRO 250SC** or any other group code 11 fungicide.

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.
- A spray programme of mixtures or alternations with remedies with a different mode of action may delay resistant strain build-up.
- Integrate other control methods (chemical, cultural, biological) into disease control programmes.

Refer to the FRAC Website **(www.frac.info/frac/index.htm)** for the latest guidelines.

Since the occurrence of resistance cannot be forecast, users are advised to keep treated crops under close observation. If treatment is not effective following the use of **BISTRO 250SC** as recommended, a resistant population may be present. If a resistant population is positively identified, consideration should be given to prompt use of a fungicide with a different mode of action for which there is no record of resistance to the relevant disease. For specific information on resistance management, contact the registration holder of this product.
BISTRO 250SC should be applied principally on a preventative basis. The total number of strobilurin applications should not constitute more than 40% of the total number of fungicide applications made to the crop in one season. The first and last treatments in a spray programme should not be carried out with **BISTRO 250SC**.

USE RESTRICTIONS

- The uptake and activity of translaminar compounds can be reduced when crops are under severe drought and/or nutrient stress conditions. Therefore, do not apply **BISTRO 250SC** under such conditions.
- Avoid the use of **BISTRO 250SC** on crops showing visible signs of physiological stress as product efficacy may be reduced.
- Spray programmes with **BISTRO 250SC** should commence before the disease/diseases become established.
- Do not apply **BISTRO 250SC** to any crop or situation not mentioned in this label.

- Do not apply this product in combination or tank mixture with any other product or agricultural remedy which is not specifically listed on this label. Meridian Agrochemical Company (Pty) Ltd accepts no responsibility for any negative effects experienced if the instructions on this label are not adhered to, unless a Meridian representative was consulted beforehand.
- Only apply **BISTRO 250SC** using an accurate and safe application technique.
- If **BISTRO 250SC** is used in a tank mix with other recommended products, consideration should be given to the restrictions of those respective products.

COMPATIBILITY

The compatibility of **BISTRO 250SC** with other products depends on the formulations of the respective products as well as the quality of the spray water to be used. As formulations change from time to time it is recommended that a physical compatibility test be done prior to the tank mixture being made. When mixing **BISTRO 250SC** with other products, follow all label instructions of the respective products carefully. **BISTRO 250SC** is compatible with copper oxychloride, **Mancozeb 800 WP** and light narrow range mineral oils.

MIXING INSTRUCTIONS

Half fill the spray tank with clean water. Mix the required amount of **BISTRO 250SC** and **Mancozeb 800 WP** or copper oxychloride with a small quantity of water before adding it to the spray tank. Add the individual mixed products separately to the spray water in the tank while agitating. Fill the spray tank to the desired volume while agitating. Add the required amount of mineral oil while maintaining constant agitation. Should tank mixtures with other products be made, follow the respective manufacturers' label recommendations. **Tank mixtures must be sprayed out immediately and not allowed to stand in the spray tank.** Maintain constant agitation throughout application. Spraying equipment must be flushed out thoroughly at the end of the spraying operation.

APPLICATION METHODS

Ensure that the equipment is correctly calibrated and is checked regularly during application to ensure even and accurate application. **Constant agitation throughout the spray operation is essential**. Only clean water should be used. Should rain occur before the spray deposit has dried completely, reapplication may be necessary.

<u>Citrus:</u>

Use water volumes that will ensure the complete coverage of trees.
Older trees: 30-50L/tree
Younger trees: 20-40L/tree
Remove all out of season citrus fruit before commencement of the spray program.

RECOMMENDATIONS

CROP AND DISEASE	Dosage/100L water	REMARKS
CITRUS **Citrus black spot** (*Guignardia citricarpa*)	20mL **BISTRO 250SC** + 150g **Mancozeb 800 WP** + 150g copper oxychloride + 300mL light narrow range mineral oil	Apply only as a high volume spray. Start the treatment programme by applying **Mancozeb 800 WP** (200 g/100L water) as soon as possible after 100% petal drop. Follow-up 21 days later with the 1st application of **BISTRO 250SC** (approximately mid to end October) and repeat with a 2nd application of **BISTRO 250SC** six weeks later (approximately end of November to beginning of December). If conditions remain favourable for infection a further one to two applications of **Mancozeb 800 WP** (200 g/100 mL water) should be made at 21 - 24 day intervals in order to provide protection during January and February. The recommended rate of copper oxychloride is based on a formulation containing 850 g copper oxychloride/kg.

NOTES:

- **BISTRO 250SC** should be applied principally on a preventative basis and applications should start as early in the growing season as possible.
- Do not apply more than 3 consecutive sprays of **BISTRO 250SC** or any other strobilurin type fungicide per 'block'.

- Separate the first and second **BISTRO 250SC** treatments by spraying at least twice with registered fungicides with modes of action different to that of the strobilurin type fungicides.
- Do not apply more than 6 applications of **BISTRO 250SC** or any other strobilurin type fungicide per season.
- Ensure good coverage of the crop.

ACKNOWLEDGEMENT OF TRADEMARKS

Mancozeb 800 WP	(L 9169)	Meridian Agrochemical Company (Pty) Ltd

Onthoudingsperiodes:

Sitrus (Suurlemoene uitgesluit) .... 77 dae

NOTA: Bogenoemde onthoudingsperiodes is gebasseer op plaaslike vereistes vir residuvlakke en mag verskil van ander lande waarheen behandelde produkte moontlik uitgevoer mag word.

- Hanteer versigtig.
- Kan oog- en velirritasie veroorsaak.
- Skadelik indien ingeneem of ingeasem.
- Giftig vir visse en ander waterorganismes.
- Berg agter slot-en-grendel in 'n koel plek.
- Berg weg van voedsel, voer, saad en ander landbouchemikalieë.
- Hou buite bereik van kinders, oningeligte persone en diere.
- **Herbetreding:** Moet nie behandelde gebiede betree alvorens die spuitneerslag droog is nie, tensy beskermende oorklere gedra word.
- **BISTRO 250SC** is sonder enige fitotoksisiteitskade op die mees belangrikste kommersiële kultivars getoets. Meer sensitiewe kultivars mag in die toekoms vrygestel word wat eers getoets moet word; hiervoor moet **BISTRO 250SC** eers op ‘n klein toetsoppervlakte aangewend word, alvorens groot kommersiële bespuitings gemaak 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 die 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 die geval van enige onsekerheid.

VOORSORGMAATREËLS

- Vermy kontak met oë, vel en inaseming van dampe of spuitnewel.
- Dra beskermende klere en gesigskerm wanneer die spuitmengsel vermeng word en tydens toediening.
- In die geval van direkte kontak met die vel, was met seep en water.
- In die geval van direkte oogkontak, spoel vir 'n paar minute uit met skoon water en kry mediese hulp indien nodig.
- Was besoedelde klere daagliks.
- Moet nie eet, drink of rook tydens toediening of vermenging nie, of voordat die gesig en hande gewas is nie.
- Vermy wegdrywing van spuitnewel na ander gewasse, weiding, riviere, damme en ander gebiede wat nie onder behandeling is nie.
- Maak toedieningsapparaat skoon voor en na gebruik. Gooi die waswater weg waar dit nie gewasse, weiveld, riviere, damme of enige ander waterbronne sal besoedel nie.
- Spoel die leë houer **drie keer** uit met 'n volume water gelykstaande aan 'n minimum van 10% van die inhoud van die houer. Gooi die spoelwater by die inhoud van die spuittenk voordat die houer op die voorgeskrewe wyse vernietig word.
- Vernietig leë houers op 'n goedgekeurde wyse en moet dit vir geen ander doel gebuik nie.
- Vermy besoedeling van voedsel, voer, drinkwater en eetgerei.

NOODHULPBEHANDELING

Inaseming: Verwyder die pasiënt na gebied met vars lug. Maak klere om die nek los. Laat pasient lê, hou hom/haar warm en rustig. Indien asemhaling vlak of gestop het, verseker dat die lugweë oop is en pas kunsmatige asemhaling toe. **Verkry onmiddellik mediese hulp.**

Velkontak: Verwyder besoedelde klere en spoel die liggaam en klere met groot hoeveelhede water. Was besoedelde klere voor hergebruik. Verkry mediese hulp indien irritasie voortduur.

Oogkontak: , Hou ooglede oop. Verwyder kontaklense. Spoel oë met groot hoeveelheid water vir ten minste 15 minute. **Verkry onmiddellik mediese hulp.**

Ingesluk: Moet nooit iets per mond aan 'n bewustelose persoon gee nie. Moenie braking induseer nie. Vir advies, kontak die Nasionale Gifstowwe Sentrum by 0800 333 44. **Verkry onmiddellik mediese hulp.**

NOTA AAN GENEESHEER
Geen spesifieke teenmiddel, behandel simptomaties.

GEBRUIKSAANWYSINGS: Gebruik slegs soos voorgeskryf.

Lees die volledige etiket voor toediening.

METODE VAN WERKING

BISTRO 250SC is 'n swamdoder met voorkomende, genesende, uitwissende, nawerkende, translaminêre en sistemiese eienskappe. Die werking is om spoorontkieming en miseliumgroei te inhibeer, en toon ook 'n antispoor werking.

WEERSTANDSBESTUUR

Vir weerstandsbestuur, is **BISTRO 250SC** 'n Groepkode 11 swamdoder. Enige swampopulasie mag individue insluit wat 'n natuurlike weerstand teen **BISTRO 250SC** of enige ander Groepkode 11 swamdoder het. Indien hierdie swamdoders herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die swampopulasie oorheers. Hierdie weerstandswamme sal waarskynlik nie deur **BISTRO 250SC** of enige ander Groepkode 11 swamdoder, beheer word nie.

Om weerstand teen swamdoders te vertraag:

- Vermy die eksklusiewe en herhaaldelike gebruik van swamdoders in dieselfde groepkode. Wissel af met, of gebruik tenkmengsels van produkte in verskillende swamdodergroepkodes.
- 'n Spuitprogram of tenkmengsels met middels met 'n ander metode van werking kan die opbou van weerstandbiedende druk, vertraag.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies) in siektebeheerprogramme.

Verwys na die **FRAC** Webwerf (**www.frac.info/frac/index.htm**) vir die nuutste riglyne.

Aangesien die voorkoms van weerstand nie voorspel kan word nie, word gebruikers aangeraai om behandelde gewasse noukeurig dop te hou. Indien die behandeling nie doeltreffend is nie na bespuiting met **BISTRO 250SC** soos aanbeveel, mag 'n weerstandbiedende ras teenwoordig wees. Indien 'n weerstandbiedende ras positief geïdentifiseer word, moet oorweging geskenk word aan die gebruik van 'n swamdoder met 'n ander metode van werking waarvoor daar geen rekord van weerstand teen die betrokke siektes is nie. Vir spesifieke inligting oor weerstandsbestuur kontak die registrasiehouer van hierdie produk.

BISTRO 250SC moet hoofsaaklik toegepas word op 'n voorkomende basis. Die totale aantal strobilurienbespuitings behoort nie meer as 40% van die totale aantal swamdoderbespuitings op die gewas in een seisoen te wees nie. Die eerste en laaste behandelings in 'n spuitprogram moet nie met **BISTRO 250SC** gedoen word nie.

GEBRUIKSBEPERKINGS

- Die opname en aktiwiteit van translaminêre verbindings kan verlaag word wanneer gewasse onder ernstige droogte- en/of voedingstekort-toestande verkeer. Moet dus nie **BISTRO 250SC** onder sulke omstandighede toedien nie.
- Vermy die gebruik van **BISTRO 250SC** op gewasse wat sigbare tekens van fisiologiese stres toon, aangesien die produk se doeltreffendheid hierdeur verminder word.
- Spuitprogramme met **BISTRO 250SC** moet begin voordat die siekte(s) gevestig is.
- Moet nie **BISTRO 250SC** toedien op enige gewas of situasie wat nie op hierdie etiket verskyn nie.
- Moet nie hierdie produk in kombinasie of tenkmengsels toedien met enige ander produk of landboumiddel wat nie spesifiek op die etiket gelys is nie. Meridian Agrochemical Company (Edms.) Bpk. aanvaar geen verantwoordelikheid vir enige negatiewe gevolge indien die instruksies op die etiket nie nagekom word nie, tensy 'n Meridian verteenwoordiger vooraf geraadpleeg is.
- Dien **BISTRO 250SC** slegs toe met akkurate en veilige toedieningsmetodes.
- Indien **BISTRO 250SC** met ander produkte in tenkmengsels gebruik word, moet die gebruiksaanwysings van daardie betrokke produk in ag geneem word.

VERENIGBAARHEID

Die verenigbaarheid van **BISTRO 250SC** met ander produkte hang af van die formulering van die betrokke produkte asook die kwaliteit van die spuitwater. Omdat formulerings van tyd tot tyd kan verander, word dit aanbeveel dat 'n fisiese verenigbaarheidstoets uitgevoer word voordat die tenkmengsel gemaak word. Wanneer **BISTRO 250SC** met ander produkte gemeng word, moet al die aanwysings van die etiket van die betrokke produkte versigtig gevolg word. **BISTRO 250SC** is verenigbaar met **Koperoksichloried**, **Mancozeb 800 WP** en **Ligte Medium Spuitolies**.

MENGINSTRUKSIES

Maak die spuittenk halfvol met skoon water. Meng die benodige hoeveelheid **BISTRO 250SC, Mancozeb 800 WP** of **Koperoksichloried** met 'n klein hoeveelheid water voordat dit by die spuittenk gevoeg word. Voeg die gemengde produkte apart in die spuitwater van die tenk terwyl geroer word. Vul die tenk met water tot by die verlangde volume terwyl geroer word en voeg die benodighede hoeveelheid minerale olie by. Indien tenkmengsels met ander produkte opgemaak word, moet die betrokke vervaardiger se aanbevelings op die etiket gevolg word. **Tenkmengsels moet onmiddellik uitgespuit word en nie toegelaat word om oornag te staan nie.** Handhaaf konstante roering tydens toediening. Spuittoerusting moet deeglik aan die einde van toediening uitgespoel word.

TOEDIENINGSMETODES

Verseker dat die spuitapparaat korrek gekalibreer is en gereeld nagegaan word tydens toediening om **egalige en akkurate** toediening te verseker. **Aanhoudende roering gedurende toediening is noodsaaklik.** Slegs skoon water moet gebruik word. Indien dit sou reën voordat die spuitmiddel heeltemal droog geword het, mag 'n herbespuiting noodsaaklik wees.

Sitrus:

Gebruik watervolumes wat die volledige dekking van die bome sal verseker.
Ouer bome: 30-50L/boom
Jonger bome: 20-40L/boom
Verwyder alle buite-seisoen sitrusvrugte voor die aanvang van die spuitprogram.

AANBEVELINGS

GEWAS EN SIEKTE	DOSIS/100L water	OPMERKINGS
SITRUS Swartvlek (*Guignardia citricarpa*)	20mL **BISTRO 250SC** + 150g **Mancozeb 800 WP** + 150g koperoksichloried + 300mL Ligte Medium Spuitolie.	Dien slegs as 'n hoë-volume bespuiting toe. Begin die beheerprogram so gou as moontlik na 100% blomblaarval met 'n toediening van **Mancozeb 800 WP** (200 g/100L water). Volg 21 dae later op met die 1ste **BISTRO 250SC** toediening (ongeveer middel tot einde Oktober) en herhaal met 'n 2de toediening van **BISTRO 250SC** ses weke later (ongeveer einde November tot begin Desember). Indien toestande gunstig bly vir laat-seisoen infeksie moet 'n verdere een tot twee toedienings **Mancozeb 800 WP** (200 g/100 L water) met tussenposes van 21-24 dae toegedien word om beskerming tydens Januarie en Februarie te verseker. Die aanbevole koperoksichloried dosis is gebaseer op 'n 850 g koperoksichloried/kg bevattende formulering.

NOTAS:

- **BISTRO 250SC** moet hoofsaaklik op 'n voorkomende basis toegedien word en bespuitings moet so vroeg as moontlik in die seisoen begin.
- Moet nie meer as 3 opeenvolgende bespuitings van **BISTRO 250SC** of enige ander strobilurientipe-swamdoder, per 'blok' toedien nie.
- Skei die eerste en tweede **BISTRO 250SC**-blokke deur ten minste twee bespuitings met geregistreerde swamdoders toe te dien wat 'n ander werkswyse as strobilurientipe-swamdoders het.
- Moet nie meer as 6 bespuitings van **BISTRO 250SC** of enige ander strobilurientipe-swamdoder per seisoen toedien nie.

- Verseker die egalige bedekking van die gewas.

ERKENNING VAN HANDELSMERKE

Mancozeb 800 WP (L 9169)	Meridian Agrochemical Company (Edms.) Bpk.