



ZIMBO

BEFORE USING THIS PRODUCT, READ THE LABEL CAREFULLY


VERWYS NA BESONDERHEDE SOOS OP HOUER / SAK GEDRUK

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ZIMBO

FUNGICIDE



Reg. No. L9429, Act/Wet No. 36 of/van 1947 1:09/12/2013

A suspension concentrate, systemic fungicide for the control of diseases on the crops as listed.

'n Suspensiekonsentraat, sistemiese swamdoder vir die beheer van siektes op gewasse soos aangedui.

FRAC FUNGICIDE GROUP CODE	1	FRAC SWAMDODER GROEPKODE
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ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL




Carbendazim (benzimidazole) 500 g/ℓ Karbendasiem (bensimidasool)

Registration Holder / Registrasiehouer
Meridian Agrochemical Company (Pty.) Ltd. / (Edms.) Bpk.
 Reg. No. 2000/010819/07
 P.O. Box / Posbus 436, Modderfontein, 1645, South Africa / Suid-Afrika




20ℓ

UN Number: 3082



CAUTION / VERSIGTIG

DIRECTIONS FOR USE ENCLOSED REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

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WARNINGS:

Withholding periods:

Avocados	90 Days
Citrus	14 Days
Table grapes.....	4-6 weeks before harvest

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
- Harmful if swallowed.
- Very toxic to fish and other aquatic life.
- Store under lock and key in a cool, dry 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.
- **ZIMBO** 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 **ZIMBO** 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 inhalation of the spray mist
- Avoid contact with eyes and skin
- 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.
- 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 the 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.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED.

Read the entire label before application.

MODE OF ACTION:

ZIMBO is a systemic fungicide with protective and curative action. It is absorbed through the roots and green tissues, with translocation acropetally. It acts by inhibiting development of the germ tubes, the formation of appressoria, and the growth of mycelia.

RESISTANCE MANAGEMENT:

For resistance management, **ZIMBO** is a group code 1 fungicide. Any fungus population may contain individuals naturally resistant to **ZIMBO** and other group code 1 fungicides. The resistant individuals can eventually dominate the disease population if these fungicides are used repeatedly. These resistant individuals may not be controlled by **ZIMBO** or any other group code 1 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 Web Site (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 **ZIMBO** 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.

USE RESTRICTIONS

- **Do not apply after grapes have reached the pea-berry stage (4-6 weeks from harvest)** as this may cause tarnishing.
- 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 **ZIMBO** under such conditions.
- Avoid the use of **ZIMBO** on crops showing visible signs of physiological stress as product efficacy may be reduced.
- Do not apply **ZIMBO** 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 **ZIMBO** using an accurate and safe application technique.
- If **ZIMBO** 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 **ZIMBO** 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 **ZIMBO** with other products, follow all label instructions of the respective products carefully. **ZIMBO** is compatible with **Mancozeb 800 WP** and light narrow range mineral oils.

MIXING INSTRUCTIONS

Half fill the spray tank with clean water. Mix the required amount of **ZIMBO** and **Mancozeb 800 WP** 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, re-application may be necessary.

RECOMMENDATIONS

CROP AND DISEASE	Dosage/100L water	REMARKS
AVOCADOS Cercospora Spot (<i>Pseudocercospora pupurea</i>)	55 m ℓ + 0.5 ℓ narrow distillation range mineral oil.	Apply as a full cover spray. Apply the first application towards the end of November. Apply the second application towards the end of January.
CITRUS Citrus black spot (<i>Guignardia citricarpa</i>) EARLY CULTIVARS	27.5 m ℓ ZIMBO + 200 g / 100 ℓ Mancozeb 800 WP + 0.5 ℓ narrow distillation range mineral oil	<p>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 ZIMBO (approximately mid to end October) and repeat with a 2nd application of ZIMBO 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.</p> <p>For early cultivars: Apply as a medium cover spray between 1-20 December.</p> <p>For trees that are younger than 20 years and growing vigorously. Apply as a medium cover spray between 1-20 December.</p> <p>For old neglected trees with a history of high susceptibility. Apply as a medium cover spray between 15-30 November.</p>
LATE CULTIVARS	55.0 m ℓ ZIMBO + 200 g / 100 ℓ Mancozeb 800 WP + 0.5 ℓ narrow distillation range mineral oil	
FRUIT FOR PROCESSING EARLY CULTIVARS Valencias less than 20 years old.	27.5 m ℓ ZIMBO + 200 g / 100 ℓ Mancozeb 800 WP + 0.5 ℓ narrow distillation range mineral oil	
Valencias older than 20 years old.	55 m ℓ ZIMBO + 200 g / 100 ℓ Mancozeb 800 WP + 0.5 ℓ narrow distillation range mineral oil	
TABLE GRAPES Botrytis rot (<i>Botrytis cinerea</i>)	50 m ℓ ZIMBO /100 ℓ	Apply to table grapes only . Apply once during flowering as the first spray in a recognised <i>Botrytis</i> dicarboximide spray or dusting programme.

NOTES:

- Always start and end the Citrus Black Spot spray programme with a suitably registered contact fungicide such as **Mancozeb 800 WP**.

ACKNOWLEDGEMENT OF TRADEMARKS

Mancozeb 800 WP (L 9169)
WAARSKUWINGS

Meridian Agrochemical Company (Pty) Ltd

WAARSKUWINGS

Onthoudingsperiodes:

Avokado's.....	90 Dae
Sitrus.....	14 Dae
Tafeldruiwe.....	4-6 Weke voor oes

Nota: Die onthoudingsperiodes hierbo genoem is gebaseer op die plaaslike residuvlakke, maar mag dalk verskil van dié in ander lande na wie die behandelde produk uitgevoer word.

BELANGRIK

- Hanteer versigtig.
- Skadelik indien ingesluk.
- Baie giftig vir visse en waterorganismes.
- Stoor agter slot-en-grendel, in koel, droë plek.
- Bêre weg van enige voedsel, saad en ander landbouchemiese middels.
- Hou buite bereik van kinders, oningeligte persone en diere.
- **Herbetreding:** Moenie behandelde gebied betree alvorens die spuitmengsel droog is nie, tensy beskermde oorklere gedra word.
- **ZIMBO** is sonder enige fitotoksiseitskade op die mees belangrikste kommersiële kultivars getoets. Meer vatbare kultivars mag in die toekoms vrygestel word wat eers getoets moet word; hiervoor moet **ZIMBO** 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 grond-, 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 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

- Verhoed die inaseming van die spuitnewel.
- Verhoed kontak met oog en vel.
- Dra altyd beskermende oorklere tydens vermenging en toediening van die produk.
- In die geval van direkte kontak met die vel, was onmiddellik met seep en water.
- In die geval van oogkontak, spoel vir aantal minute deeglik met skoon water.
- Was besoedelde klere daagliks.
- Moenie eet, drink of rook wanneer die spuitmengsel aangemaak of toegedien word nie, of voordat hande en gesig gewas is nie.
- Verhoed dat sproeimis wegdryf na ander gewasse, weidings, riviere, damme en ander areas wat nie onder behandeling is nie.
- Maak alle toerusting voor en na gebruik skoon. Raak ontslae van spoelwater waar dit nie gewasse, weidings, riviere, damme en ander waterbronne sal besoedel nie;
- Spoel die leë houer **drie keer** uit met 'n watervolume gelykstaande aan 'n minimum van 10% van die inhoud van die houer. Die spoelwater moet in die spuittenk uitgegooi word voordat die houer finaal vernietig word.
- Vernietig die houer op die voorgeskrewe wyse en moet dit nie vir enige ander doeleindes gebruik nie.
- Voorkom besoedeling van kos, voer, drinkwater en eetgerei.

GEBRUIKSAANWYSINGS

Gebruik slegs soos aangedui.

Lees die volledige etiket voor die toediening van die produk.

METODE VAN WERKING

ZIMBO is 'n sistemiese swamdoder met 'n beskermde en kuratiewe werking. Die produk word deur die wortels en groenweefsel van die plant deur akropetale translokasie geabsorbeer. Dit werk deurdat dit kiembuisvorming, appresoria-vorming en miseliumgroei inhibeer.

WEERSTANDBESTUUR

Vir weerstandsbestuur is **ZIMBO** 'n groepkode 1 swamdoder. Enige swampopulasie mag individue besit wat natuurlik weerstandbiedend is teen **ZIMBO** en ander groepkode 1 swamdoders. Die weerstandbiedende individue kan uiteindelik die siekte-populasie oorheers indien hierdie swamdoders aanhoudend gebruik word. Hierdie individue mag dalk nie deur **ZIMBO** of enige ander groepkode 1 swamdoder beheer word nie.

Om weerstand teen swamdodes te vertraag:

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

Verwys na die FRAC Webtuiste (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 met **ZIMBO** soos aanbeveel nie doeltreffend was nie, mag 'n weerstandbiedende populasie teenwoordig wees. Indien 'n weerstandbiedende populasie positief geïdentifiseer word, moet daar onmiddellik oorweging geskenk word aan die gebruik van 'n swamdoder met 'n ander metode van werking, waarvan daar geen rekord van weerstand teen die betrokke siekte is. Vir spesifieke inligting oor weerstandsbestuur kontak die registrasiehouer van hierdie produk.

GEBRUIKSBEPERKINGS

- **Moet nie op druiwe toedien nadat dit die ertjekorrelstadium bereik het nie (4 – 6 weke voor oestyd)** omdat dit verkleuring tot gevolg kan hê.
- Die opname en werking van translaminêre produkte kan verlaag word wanneer gewasse onder ernstige droogte- of voedingstekorttoestande verkeer. Moet daarom nie **ZIMBO** onder hierdie omstandighede toegedien nie.
- Vermyn die gebruik van **ZIMBO** op gewasse wat sigbare tekens van fisiologiese stres wys, aangesien dit die produk se effektiwiteit mag verlaag.
- Moenie **ZIMBO** op enige gewas of situasie toedien wat nie in die etiket genoem word nie.
- Moenie hierdie produk in kombinasie of in tenkmengsels met enige ander produk of plaagbeheer toedien wat nie spesifiek op die etiket gelys is nie. Meridian Agrochemical Company (Edms.) Bpk. aanvaar geen verantwoordelikheid vir enige negatiewe effek ondervind indien die instruksies, wat op die etiket aangedui is, nie nagevolg word nie, tensy 'n Meridian verteenwoordiger vooraf geraadpleeg is.
- Dien **ZIMBO** slegs met akkurate en veilige toedieningsmetodes toe.
- Indien **ZIMBO** in tenkmengsel met ander aanbevole produkte gebruik word, moet oorweging geskenk word aan die beperkings van daardie betrokke produkte.

VERENIGBAARHEID

Die verenigbaarheid van **ZIMBO** met ander produkte hang van die formulering van die betrokke produkte af, sowel as die gehalte van die spuitwater wat gebruik word. Deurdat formulering van tyd tot tyd verander word aanbeveel om 'n verenigbaarheidstoets vooraf te doen alvorens 'n tenkmengsel gemaak word. Wanneer **ZIMBO** met ander produkte vermeng word, moet al die etiketinstruksies van daardie betrokke produkte ook versigtig gevolg word. **ZIMBO** is verenigbaar met **Mancozeb 800 WP** en ligte medium minerale olies.

MENGINSTRUKSIES

Vul die spuittenk halfvol met skoon water. Vermeng die verlangde volume **ZIMBO** en **Mancozeb 800 WP** met 'n klein volume water voordat dit in die spuittenk gegooi word. Voeg die individuele vermengingsprodukte apart in die spuitwater terwyl roering plaasvind. Vul die spuittenk tot by die verlangde volume terwyl konstante roering plaasvind. Voeg die verlangde hoeveelheid minerale olie in die tenk terwyl roering plaasvind. Indien tenkmengsel met ander produkte opgemaak word, moet die etiketaanbevelings van die onderskeie vervaardigers gevolg word.

Tenkmengsels moet onmiddellik uitgespuit word en nie toegelaat word om in die spuittenk te staan nie. Verseker konstante roering tydens die toediening. Die spuittoerusting moet deeglik uitgespoel word aan die einde van die spuitsessie.

TOEDIENINGSMETODES

Maak seker dat die spuittoerusting korrek gekalibreer is en gereeld tydens toediening nagegaan word om egalige en akkurate toediening te verseker. **Konstante roering deur die hele spuitproses is noodsaaklik.** Slegs skoon water moet gebruik word. 'n Tweede bespuiting mag nodig wees indien dit reën voordat die spuitneerslag behoorlik droog geword het.

AANBEVELINGS

GEWAS EN SIEKTE	Dosis/100 ℓ Water	OPMERKINGS
AVOKADO'S Cercospora Vlek (<i>Pseudocercospora pupurea</i>)	55 ml + 0.5 ℓ smalbestek minerale olie	Dien as 'n voldebespuiting toe. Dien die 1ste toediening nader aan die einde van November toe. Die 2de toediening aan die einde van Januarie.
SITRUS Sitrus swartvlek (<i>Guignardia citricarpa</i>) VROEË KULTIVARS LAAT KULTIVARS	27.5 ml ZIMBO + 200g/100 ℓ Mancozeb 800 WP + 0.5 ℓ smalbestek minerale olie 55.0 ml ZIMBO + 200g/100 ℓ Mancozeb 800 WP + 0.5 ℓ smalbestek minerale olie	Begin die behandeling deur Mancozeb 800WP (200g/100 ℓ water) so gou moontlik na 100% blomblaarval toe te dien. Volg 21 dae later op met die eerste toediening van ZIMBO (omtrent middel tot einde Oktober) en herhaal met tweede toediening van ZIMBO ses weke later (omtrent einde Nov tot begin Des). Indien toestand vir infeksie gunstig bly, moet 'n verdere een of twee Mancozeb 800WP (200g/100 ℓ water) toedienings met 21 – 24 dae-intervalle gedoen word om beskerming gedurende Januarie en Februarie te verseker. Vir vroeë kultivars: Dien toe as 'n medium dekbespuiting tussen 1 – 20 Desember. Vir bome jonger as 20 jaar met kragtige groei. Dien toe as medium dekbespuiting tussen 1 – 20 Desember. Vir bome wat afgeskeep is en met geskiedenis van hoë vatbaarheid:

<p>VRUGTE VIR PROSESSERING</p> <p>VROEË KULTIVARS Valencias minder as 20 jaar oud.</p> <p>Valencias ouer as 20 jaar</p>	<p>27.5 ml ZIMBO + 200g/100 l Mancozeb 800 WP + 0.5 l smalbestek minerale olie</p> <p>55 ml ZIMBO + 200g/100 l Mancozeb 800 WP + 0.5 l smalbestek minerale olie</p>	<p>Dien toe as 'n medium dekbespuiting tussen 15 – 30 November.</p>
<p>TAFELDRUIWE Botrytis vrot (<i>Botrytis cinerea</i>)</p>	<p>50 ml ZIMBO/100 l water</p>	<p>Dien slegs op tafeldruiwe toe. Dien slegs eenkeer gedurende blomstadium toe, as die eerste bespuiting in 'n erkende <i>Botrytis</i> dikarboksimied spuit- of stuifprogram.</p>

NOTAS

- Begin en eindig altyd die Sitrus-swartvlekprogram met 'n gepaste geregistreerde kontakswamdoder soos **Mancozeb 800 WP**.

ERKENNING VAN HANDELSMERKE

Mancozeb 800 WP (L 9169)

Meridian Agrochemical Company (Edms.) Bpk.