



CAPTAN 500 SC

BEFORE USING THIS PRODUCT, READ THE LABEL CAREFULLY		
VERWYS NA BESONDERHEDE SOOS OP HOUER / SAK GEDRUK	CAPTAN 500 SC	
	FUNGICIDE	
		
	Reg. No. L10979, Act/Wet No. 36 of/van 1947	
GEBRUIKSAANWYSINGS INGESLUIT	1:19/01/2021	
	A suspension concentrate fungicide for the control of diseases in crops as indicated.	
	'n Suspensiekonsentraat swamdoder vir die beheer van siektes in gewasse soos aangedui.	
DIRECTIONS FOR USE ENCLOSED REFER TO DETAILS AS PRINTED ON CONTAINER / BAG	FRAC FUNGICIDE GROUP CODE	
	M4	
	FRAC SWAMDODERGROEPKODE	
ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL		
Captan (phthalimide) 500 g/l Kaptan (ptalimied)		
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		
		
UN Number: 3082		
		
		
CAUTION / VERSIGTIG		
		

WARNINGS

Withholding period: Minimum number of days between last application and harvest or feeding.

Apples, Pears, Olives.....14 days

IMPORTANT: The recommended withholding period between last application and harvest meets local residue requirements, but may not meet export requirements.

- Handle with care.
- Irritating to eyes and mildly irritating to skin.
- May cause sensitization by skin contact.
- Toxic to fish and wildlife.
- Store under lock and key in the original, tightly closed container in a cool, dry, well-ventilated area.
- Store away from food, feed, seed and fertilisers.
- Keep away from children, uninformed persons and animals.
- **Re-entry:** Do not enter treated area 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 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.

GLOBALLY HARMONIZED SYSTEM, EU (GHS)

Pictogram:



Signal word: Danger

Hazard Statements:

- **H302:** Harmful if swallowed.
- **H317:** May cause an allergic skin reaction.
- **H318:** Causes serious eye damage.
- **H331:** Toxic if inhaled.
- **H351:** Suspected of causing cancer.
- **H400:** Very toxic to aquatic life.

Precautionary Statements:

- **P201:** Obtain special instructions before use.
- **P202:** Do not handle until all safety precautions have been read and understood.
- **P260:** Do not breathe mist/fumes/vapours/spray.
- **P262:** Do not get in eyes, on skin, or on clothing.
- **P264:** Wash face and hands thoroughly after handling.
- **P270:** Do not eat, drink or smoke when using this product.
- **P271:** Use only outdoors or in a well-ventilated area.
- **P273:** Avoid release to the environment.
- **P280:** Wear protective gloves/protective clothing/eye protection/face protection.
- **P284:** In case of inadequate ventilation wear respiratory protection.
- **P403+233:** Store in a well-ventilated place. Keep container tightly closed.

PRECAUTIONS

- Avoid inhalation of fumes and spray mist.
- Avoid contact of product with skin and eyes.
- Wear protective clothing (e.g. coverall, rubber gloves and boots) and eye protection when preparing the spray mixture and during spraying.
- In case of direct contact with skin, immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with a non-abrasive soap and water. Seek medical assistance if irritation develop.
- In case of direct eye contact, flush eyes with plenty of water for 15 minutes, holding eyelids open. Remove contact lenses, if present, after the first 5 minutes. Seek medical assistance if irritation persists.
- Do not eat, drink or smoke while preparing or applying the spray mix, or before washing face and hands and changing clothes.
- Wash contaminated clothing before re-use.
- Store away from food and feed and keep out of reach of children and animals.
- Avoid spray drift onto other crops, grazing, rivers, dams and other areas not under treatment.
- Clean equipment before and after use. Dispose of rinsate where it will not contaminate crops, pastures, rivers, dams or other water sources.
- Invert the empty container over the spray tank and allow to drain for at least 30 seconds after the flow has slowed to a drip. Rinse the empty container **THREE TIMES** with a volume of water equal to a minimum of 30 % 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 by perforating and flattening before disposal in a safe way.
- DO NOT use the empty container for any other purpose.
- Prevent contamination of food, feed, drinking water and eating utensils.

MODE OF ACTION

CAPTAN 500 SC is a non-systemic fungicide with protective and curative action. It is a non-specific thiol reactant and functions by inhibiting respiration.

RESISTANCE MANAGEMENT

For resistance management, **CAPTAN 500 SC** is a group code M4 fungicide. Any fungus population may contain individuals naturally resistant to **CAPTAN 500 SC** and other group code M4 fungicides. The resistant individuals can eventually dominate the disease population if these fungicides are used repeatedly. These resistant fungi may not be controlled by **CAPTAN 500 SC** or any other group code M4 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.
- Refer to individual product labels when alternating products or when using tank mixtures with registered products.
- 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.

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 **CAPTAN 500 SC** as recommended, a resistant strain may be present. If a resistant strain 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 resistance management information, contact the registration holder of this product.** Refer to the FRAC website (www.frac.info/frac/index.htm) for the latest guidelines.

USE RESTRICTIONS

- Use of **CAPTAN 500 SC** on Forelle pears should be avoided.
- Apply according to good agricultural practices: Integrated Pest Management (IPM) and anti-resistant management programmes.
- Do not apply **CAPTAN 500 SC** 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.
- If **CAPTAN 500 SC** is used in a tank mix with other recommended products, consideration should be given to the restrictions of those respective products.

DIRECTIONS FOR USE

Use only as directed.

MIXING INSTRUCTIONS

Shake the container well before use and replace the cap directly after use. Fill the spray tank to a third of the desired volume with clean water. Whilst agitating, add the recommended amount of **CAPTAN 500 SC** to the spray water and continue filling the tank. Fill the spray tank to the desired volume while maintaining agitation. Do not use brackish water. Do not leave the spray mixture to settle or stand before applying. If spraying is interrupted, the spray mixture in the tank should be agitated properly before spraying is commenced. **Tank mixtures must be sprayed out immediately and not allowed to stand in the spray tank overnight.** Spraying equipment must be thoroughly flushed out at the end of the spraying operation.

APPLICATION TECHNIQUES

CAPTAN 500SC may be applied using conventional ground application spray equipment. Calibrate the apparatus before application to ensure that the correct dosage is applied. Ensure that application equipment is in good working order. The distribution of the spray volume must be uniform throughout the target area. **Constant agitation throughout the spray operation is essential.** Only clean water should be used. Ensure good coverage by using the spray volumes as indicated.

RECOMMENDATIONS

CROP & DISEASE	DOSAGE RATE	REMARKS
APPLES AND PEARS Scab <i>(Venturia inaequalis)</i>	150 – 200 ml / 100 l water	Before flowering: Start application at green-tip stage and repeat at 7-day intervals. After flowering: Continue with 3 – 4 applications depending on the weather conditions and with intervals of 10 – 14 days. Use the higher dosage rate under severe infestation. Note: • Application of CAPTAN 500 SC may result in the development of leaf spots on sensitive apple cultivars (Such as Pearmain, Delicious, Cox) and on sensitive pear cultivars. Use on Forelle pears should be avoided. • Do not apply in combination with sulphur, lime sulphur, other sulphur-containing products or mineral oil, or after a lime sulphur application.
OLIVES Leaf Spot <i>(Cycloconium oleaginum)</i>	150 – 200 ml / 100 l water	Apply two (2) high-volume applications to the point of runoff. Apply one (1) in spring before the new flush appears and then a second in autumn before the start of winter.

TOBACCO SEEDBEDS Anthrachnose <i>(Colletotrichum destructivum)</i> Black Root Rot <i>(Thielaviopsis vasicola)</i> Black Shank <i>(Phytophthora nicotianae)</i> Damping-off <i>(Pythium, Fusarium and Rhizoctonia spp)</i>	200 mℓ / 100 ℓ water	Apply 15 ℓ / 10 m ² as a soil drench 3 weeks after germination and wash into the soil with 40 ℓ of water. Repeat applications every 10 – 14 days until transplanting.
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WAARSKUWINGS

Onthoudingsperiode: Minimum aantal dae tussen laaste toediening en oes of beweiding.

Appels, Pere, Olywe 14 dae

BELANGRIK: Die aanbevole onthoudingsperiode tussen laaste toediening en oes voldoen aan plaaslike residuvlakke, maar mag dalk nie aan die vereistes vir uitvoer voldoen nie.

- Hanteer versigtig.
- Irriterend vir oë en matig irriterend vir vel.
- Mag gevoeligheid deur velkontak veroorsaak.
- Giftig vir visse en wildlewe.
- Bêre agter slot-en-grendel in die oorspronklike, digsluitende houer in 'n koel, droë en goedgeventileerde area.
- Bêre weg van voedsel, voer, saad en kunsmis.
- Hou buite bereik van kinders, oningeligte persone en diere.
- **Herbetreding:** Moenie behandelde gebied betree alvorens die neerslag droog is nie, tensy beskermende oorklere 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. Die werking en doeltreffendheid daarvan kan beïnvloed word deur faktore soos abnormale grond-, klimaats- en bergingstoestande; kwaliteit van verdunningswater, verenigbaarheid met ander stowwe wat nie op die etiket aangedui word nie en die voorkoms van weerstand van die siektes teen die betrokke middel, sowel as die metode, tyd en akkuraatheid van die toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei, die omgewing of vir nadelige invloede 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 die geval van enige onsekerheid.

VOORSORGMATREËLS

- Vermyn die inaseming van dampe en spuitnewel.
- Vermyn kontak van die produk met vel en oë.
- Dra beskermende klere (bv. oorpak, rubber-handskoene en -stewels) en gesigbeskerming tydens voorbereiding van die spuitmengsel en gedurende die spuitproses.
- In geval van direkte velkontak, spoel liggaam en klere onmiddellik met groot hoeveelhede water. Verwyder besoedelde klere en skoeisel. Was geaffekteerde dele met nie-skurende seep en water. Verkry mediese hulp indien irritasie ontwikkel.
- In geval van direkte oogkontak, spoel oë met genoegsame water vir 15 minute, terwyl ooglede oop gehou word. Indien teenwoordig, verwyder kontaklense na 5 minute. Verkry mediese hulp indien irritasie voortduur.
- Moenie eet, drink of rook tydens voorbereiding of toediening van die spuitmengsel nie, of voordat gesig en hande gewas is en skoon klere aangetrek is nie.
- Was besoedelde klere voor hergebruik.
- Bêre weg van voedsel en voer en hou buite bereik van kinders en diere.
- Vermyn wegdrywing van spuitnewel na ander gewasse, weiding, riviere, damme en gebiede wat nie behandel moet word nie.
- Maak toedieningsapparaat voor en na gebruik skoon. Uitspoelwater moet nie gewasse, weidings, riviere, damme of ander waterbronne besoedel nie.
- Keer die lê houer om oor die spuitenk of mengbak en dreineer vir minstens 30 sekondes nadat die vloeitot 'n gedrup verminder het. Spoel die houer daarna **DRIE KEER** uit met 'n volume water gelykstaande aan 'n minimum van 30 % van die inhoud van die houer. Gooi die spoelwater by die inhoud van die spuitenk voordat die houer op die voorgeskrywe manier vernietig word.
- Vernietig lê houers deur gate daarin te maak en dit plat te maak voordat daarvan op 'n verantwoordelike manier kan weggedoen word.
- MOENIE die houer vir enige ander doel gebruik nie.
- Vermyn die besoedeling van kos, voer, drinkwater en eetgerei.

METODE VAN WERKING

CAPTAN 500 SC is 'n nie-sistemiese swamdoder met 'n beskermende en genesende werking. Dit is 'n nie-spesifieke tioen reaktans en funksioneer deur die inhibering van respirasie.

WEERSTANDSBESTUUR

Vir weerstandsbestuur is **CAPTAN 500 SC** 'n groepkode M4 swamdoder. Enige swampopulasie mag individue bevat wat natuurlike weerstand teen **CAPTAN 500 SC** of enige ander groepkode M4 swamdoder het. Die weerstandbiedende individue kan uiteindelik die siektepopulasie oorheers indien hierdie swamdoder herhaaldelik aangewend word. Hierdie weerstandbiedende swamme sal waarskynlik nie deur **CAPTAN 500 SC** of enige ander groepkode M4 swamdoder beheer word nie.

Om weerstand teen swamdoders te vertraag:

- Vermoë die eksklusiewe herhaaldelike gebruik van swamdoders met dieselfde groepkode. Wissel af met, of gebruik tenkmengsels van, produkte in verskillende swamdodergroepkodes.
- Sien individuele produkietikette wanneer daar tussen produkte of tenkmengsels met geregistreerde produkte afgewissel word.
- 'n Spuitprogram van mengsels of die afwisseling met middels wat 'n ander metode van werking het, kan die opbou van weerstandbiedende druk, vertraag.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies) in siektebeheerprogramme.

Aangesien die voorkoms van weerstandbiedendheid moeilik is om te bepaal, is dit uiters belangrik om die behandelde gewasse noukeurig te ondersoek. Indien die behandeling nie effektief was met die gebruik van **CAPTAN 500 SC** soos voorgeskryf nie, mag daar 'n weerstandbiedende-populasie teenwoordig wees. Indien so 'n weerstandbiedende-populasie positief geïdentifiseer word, moet daar onmiddellik 'n swamdoderbespuiting wat 'n ander werkswyse het, waar daar geen bewys van weerstand teen die siekte voorkom, gedoen word. **Vir spesifieke inligting oor weerstandsbestuur kan die registrasiehouer van hierdie produk gekontak word.** Verwys na die FRAC webwerf by <http://www.frac.info/frac/index.html> vir nuutste riglyne.

GEBRUIKSBEPERKINGS

- Die gebruik van **CAPTAN 500 SC** op Forelle pere moet vermy word.
- Dien toe volgens goeie landboupraktyke: Geïntegreerde Plaagbestuur (IPM) en anti-weerstand bestuurprogramme.
- Moenie **CAPTAN 500 SC** op enige gewas of situasie aanwend wat nie in die voorskrifetiket verskyn nie.
- Moenie hierdie produk in kombinasie of tenkmengsel met enige ander produk of landboumiddel gebruik wat nie spesifiek op hierdie 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.
- Indien **CAPTAN 500 SC** in 'n tenkmengsel met ander aanbevole produkte gebruik word, moet oorweging aan die beperkings van daardie betrokke produkte geskenk word.

GEBRUIKSAANWYSINGS

Gebruik slegs soos aangedui.

MENGINSTRUKSIES

Skud die houer goed voor gebruik en sit die prop direk na gebruik op. Vul die spuittenk tot 'n derde van die verlangde volume met skoon water. Terwyl roering plaasvind, voeg die aanbevole hoeveelheid **CAPTAN 500 SC** by die spuitwater terwyl tenk met water gevul word. Maak die spuittenk tot die verlangde volume vol terwyl geroer word. Moenie brakwater gebruik nie. Moenie toelaat dat die spuitmengsel uitsak of staan voordat dit toegedien word nie. Indien die spuitproses onderbreek word, moet die spuitmengsel deeglik geroer word voordat die toediening weer in aanvang neem. **Tenkmengsels moet onmiddellik uitgespuit word en nie toegelaat word om oornag in die spuittenk te staan nie.** Spuittoerusting moet deeglik na die spuitproses uitgespoel word.

TOEDIENINGSTEGNIEKE

CAPTAN 500 SC kan met konvensionele trekker spuittoerusting toegedien word. Kalibreer die spuitapparaat voordat toediening geskied om te verseker dat die korrekte dosis toegedien word. Verseker dat toedieningsapparaat in goeie werkende toestand is. Die verspreiding van die

spruitmengsel moet egalig oor die teikengebied geskied. **Konstante roering moet deurgaans tydens die spuitproses plaasvind.** Slegs skoon water moet gebruik word. Verseker goeie bedekking deur van die aangeduide spuitvolumes gebruik te gebruik.

AANBEVELINGS

GEWAS & SIEKTE	DOSIS	OPMERKING
APPELS EN PERE Skurfsiekte <i>(Venturia inaequalis)</i>	150 – 200 ml / 100 l water	Voor blom: Begin toediening by groenpuntstadium en herhaal met 7-dag intervalle. Na blom: Hou aan met 3 – 4 toedienings afhangend van die weersomstandighede en met intervalle van 10 – 14 dae. Gebruik die hoër dosis onder hoë infeksiedruk. Nota: - Die toediening van CAPTAN 500 SC mag tot die ontwikkeling van blaarvleke op sensitiewe appelkultivars (soos Pearmain, Delicious, Cox) en op sensitiewe peerkultivars lei. Die gebruik op Forelle pere moet vermy word. - Moenie in kombinasie met swael, kalkswael, ander swaelbevattende produkte of minerale olie gebruik, of na 'n kalkswael toediening nie.
OLYWE Blaarvlek <i>(Cycloconium oleaginum)</i>	150 – 200 ml / 100 l water	Dien twee (2) hoë-volume toedienings tot by punt van afloop toe. Dien een (1) in die lente toe voor die nuwe groei verskyn en 'n tweede gedurende herfs, net voor die winter begin.
TABAK SAADBEDDINGS Antraknose <i>(Colletotrichum destructivum)</i> Swart wortelvrot <i>(Thielaviopsis vasicola)</i> Swartstam <i>(Phytophthora nicotianae)</i> Saailingverwelksiekte <i>(Pythium, Fusarium and Rhizoctonia spp)</i>	200 ml / 100 l water	Dien 15 l / 10 m ² as 'n gronddeurdrenking 3 weke na ontkieming toe en was in die grond in met 40 l water. Herhaal toediening elke 10 – 14 dae tot uitplant.