



# CHRONOS 45 EC

Reg. no. L5589 Act/Wet 36 of/van 1947

An emulsifiable concentrate fungicide for the control of the diseases mentioned on the crops listed.

'n Emulgeerbare konsentraat swamdoder vir die beheer van die siektes vermeld op die genoemde gewasse.

**FRAC FUNGICIDE GROUP CODE**

**3**

**FRAC SWAMDODER GROEPKODE**

## ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL

prochloraz (imidazole) ..... 450 g/l ..... prochloras (imidasool)

## NET VOLUME/NETTO VOLUME

..... l

## REGISTRATION HOLDER/REGISTRASIEHOUER

ADAMA South Africa (Pty.) Ltd.

Reg. no. 1992/001741/07

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**CHRONOS is a trademark of a company of the ADAMA GROUP.  
CHRONOS is 'n handelsmerk van 'n maatskappy van die ADAMA GROEP.**

## CONTACT IN EMERGENCY/KONTAK IN NOOD

Griffon Poison Information Centre: +27 82 446 8946

Tygerberg Poison Information Centre: +27 21 931 6129

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

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

UN no.: 3082



## WARNINGS

- Poisonous by contact, swallowing or inhalation.
- Toxic to fish and wildlife.
- Store in a cool place away from food and feedstuffs.
- Keep out of reach of children, uninformed persons and animals.
- **FLAMMABLE:** Do not handle near open fires and sparks

**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 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, and 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 spray mist and fumes.
- Wear protective clothing (rubber boots, gloves and face-shield).
- Wash contaminated clothing daily.
- In case of skin contact wash thoroughly with soap and water.
- Do not eat, drink or smoke while applying or preparing the spray mist, or before washing face and hands.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Clean applicator before using for other materials and dispose of wash water where it will not contaminate crops, grazing, rivers or dams.
- Invert the empty container over the spray, dip 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 equal to a minimum of 10 % of that of the container. Add the rinsings to the contents of the dip or spray tank before destroying the container in the prescribed manner. Destroy empty container by perforation and flattening and never use for any other purpose.

## DIRECTIONS FOR USE

**Use only as directed.**

### Compatibility

Compatible with 2,4-D (sodium salt) and thiabendazole.

### Mixing instructions

Half fill the dip/spray tank with clean water. Shake the **CHRONOS 45 EC** container thoroughly, immediately before use. Measure the required volume **CHRONOS 45 EC** and pre-mix this with at least 10 L of water. Agitate the mixture in the dip/spray tank and add the pre-mixed product. Fill the

dip/spray tank with water to the required level while maintaining agitation to ensure thorough mixing of the dip or spray mixture before dipping or spraying commences. Maintain agitation while dipping or spraying. Prepared dip or spray mixture must not be left in the dip or spray tank for any length of time, e.g. overnight. Ensure that agitation takes place for a few moments prior to commencement of dipping or spraying after normal operation stop, e.g. lunch breaks.

## APPLICATION RATES

CROP AND DISEASE	DOSAGE	REMARKS
<p><b>Avocados</b></p> <p>Post-harvest control of anthracnose, stem-end rot, <i>Dothiorella/Colletotrichum</i> complex fruit rot</p>	<p><b>Spray-on treatment</b></p> <p>1 100 ml/100 L water (5000 ppm active ingredient)</p>	<p>Apply as a low volume application using approximately 1.6 L spray emulsion per ton of fruit. Apply on the conveyor belt system where fruits are rolling to expose all surfaces or where brushing is taking place. This application should take place before wax is applied.</p>
<p><b>Bananas</b></p> <p>Post-harvest control of collar rot</p>	<p><b>Dip treatment</b></p> <p>30 ml/100 L water (135 ppm active ingredient)</p>	<p>Cut bunches into hands and dip each individual hand for 5 seconds in the fungicide emulsion.</p> <p><b>Note:</b> Care must be taken that the concentration of the dip remains constant by topping up regularly with an emulsion made up in the proportion 30 ml <b>CHRONOS 45 EC</b>: 100 L water. Stir the emulsion regularly.</p>
<p><b>Citrus</b></p> <p>Post-harvest control of green mould and blue mould</p>	<p><b>Brush-on treatment</b></p> <p>330 ml/100 L water (1500 ppm active ingredient)</p>	<p>Apply during the fruit brushing process before the application of fruit wax. Use in combination with 2,4-D (sodium salt) and thiabendazole. Follow the directions mentioned on those product labels.</p>
<p><b>Mangoes</b></p> <p>Post-harvest control of anthracnose and the suppression of soft brown rot</p>	<p><b>Export market</b></p> <p>180 ml/100 L</p> <p><b>Local market</b></p> <p>90 ml/100 L</p>	<p>Dip fruit for 20 seconds in the fungicide emulsion at room temperature.</p> <p><b>Important:</b> Fruit should be pre-dipped in hot water for 5 minutes. Water temperature should not exceed 50 °C, especially during the early part of the season and especially with the cultivars Zill and Irwin. Phytotoxicity with hot water alone can be experienced during certain seasons.</p> <p>Dip fruit for 2 minutes in a hot fungicide emulsion. The water temperature should not exceed 50 °C especially during the early part of the season and especially with the cultivars Zill and Irwin. Phytotoxicity with hot water alone can be experienced during certain seasons.</p>

**NB: Please refer to mixing and dipping instructions.**

## **WAARSKUWINGS**

- Giftig deur kontak, inname of inaseming
- Giftig vir visse en wild.
- Stoor in 'n koel plek weg van voedsel en voer.
- Hou buite bereik van kinders, oningeligte persone en diere
- **VLAMBAAR:** Moenie naby oop vure of vonke hanteer nie.

**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, 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 akkuraathied 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 verbruiker 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.**

## **VOORSORGMAATREËLS**

- Voorkom inaseming van dampe en sproeinewel.
- Dra beskermende klere (rubberstewels, handskoene en gesigskerm).
- Was besoedelde klere daaglik
- In geval van toevallige velkontak was met seep en water.
- Moet nie eet, drink of rook tydens toediening of vermenging nie, of voordat gesig en hande gewas is nie
- Voorkom besoedeling van voedsel, voer, drinkwater en eetgerei
- Maak die apparaat skoon voordat dit vir ander middels gebruik word en raak ontslae van die spoelwater waar dit nie gewasse, weidings, riviere of damme sal besoedel nie
- Keer die leë houer om oor die doop- of spuittenk of mengbak en dreineer vir minstens 30 sekondes nadat die vloeï tot 'n gedrup verminder het. Spoel die houer daarna drie keer uit met 'n volume water gelykstaande aan 'n minimum van 10 % van die houer. Gooi die spoelwater by die inhoud van die doop- of spuittenk voordat die houer op die voorgeskrewe wyse vernietig word. Vernietig leë houer deur gate daarin te maak en plat te druk. Moet vir geen ander doel gebruik word nie.

## **GEBRUIKSAANWYSINGS**

**Gebruik slegs soos aangedui.**

### **Verenigbaarheid**

Verenigbaar met 2,4-D (natriumsout) en tiabendasool.

## Menginstruksies

Maak die doop-/spuitenk halfvol met skoon water. Skud die **CHRONOS 45 EC** houer deeglik net voor gebruik. Meet die benodigde volume **CHRONOS 45 EC** en meng dit vooraf met minstens 10 L water. Roer die water in die doop-/spuitenk en voeg dan die vooraf-vermengde produk by. Vul die doop-/spuitenk met water tot by die verlangde vlak terwyl daar voortdurend geroer word om deeglike vermenging te verseker alvorens doop of spuiting in aanvang neem. Handhaaf roering gedurende doop of bespuiting. Aangemaakte doop- of spuitmengsel moenie in die doop- of spuitenk gelaat word vir 'n onbepaalde tyd nie, bv. oornag. Maak seker dat die mengsel vir 'n paar minute geroer word voordat voortgegaan word met die doop- of spuitproses na 'n onderbreking van die proses, bv. etenstyd.

## TOEDIENINGSDOSISSE

GEWAS EN TEIKEN	DOSIS	OPMERKINGS
<b>Avokado's</b> Naoesbeheer van antraknose, stingel-entvrot en <i>Dothiorella/Colletotrichum</i> -kompleks vrugtevrot	<b>Aanspuitbehandeling</b> 1 100 ml/100 L water (5000 dpm aktiewe bestanddeel)	Dien toe as 'n lae-volume bespuiting en gebruik ongeveer 1.6 L spuitemulsie per ton vrugte. Dien toe op vrugte bo-op die vervoerbandstelsel waar die vrugte rol en alle oppervlakte blootgestel word of waar die vrugte afgeborsel word. Hierdie behandeling moet plaasvind voor behandeling met was.
<b>Piesangs</b> Naoesbeheer van kraagvrot	<b>Doopbehandeling</b> 30 ml/100 L water (135 dpm aktiewe bestanddeel)	Sny trosse op in hande en doop elke individuele hand vir 5 sekondes in die swamdoderemulsie. <b>Nota:</b> Daar moet gesorg word dat die konsentrasie van die swamdoderemulsie konstant bly deur die gereelde aanvulling met 'n emulsie van 30 ml <b>CHRONOS 45 EC</b> /100 L water. Roer die emulsie dikwels.
<b>Sitrus</b> Naoesbeheer van groenskimmel en blouskimmel	<b>Aanborselbehandeling</b> 330 ml/100 L water (1500 dpm aktiewe bestanddeel)	Dien toe tydens die proses waar die vrugte geborsel word, voor die aanwending van vrugte was. Gebruik dit saam met 2,4-D (natriumsout) en tiabendasool. Volg die onderskeie produkte se etiketaanwysings.
<b>Mango's</b> Na-oes beheer van antraknose en die onderdrukking van sagte bruinvrot	<b>Uitvoermark</b> 180 ml/100 L	Doop vrugte vir 20 sekondes in die swamdoderoplossing by kamertemperatuur. <b>Belangrik:</b> Vrugte moet vooraf vir 5 minute in warm water gedoop word. Watertemperatuur moet nie 50 °C oorskry nie, veral tydens die begin van die seisoen en veral met die kultivars Zill en Irwin. Fitotoksiteit kan tydens sekere seisoene voorkom met slegs 'n warmwaterbehandeling.

GEWAS EN TEIKEN	DOSIS	OPMERKINGS
<b>Mango's (vervolg)</b>	<b>Plaaslike mark</b> 90 ml/100 L	Doop vrugte vir 2 minute in warm swamdoderemulsie. Die watertemperatuur moet veral gedurende die vroeë deel van die seisoen nie 50 °C oorskry nie, veral ingeval van die kultivars Zill en Irwin. Vroeë seisoen vrugte is meer geneig tot skade en doopbehandeling met slegs warm water kan soms tot fitotoksiteit lei.

**NB: Verwys asseblief na meng- en doopinstruksies.**