

MAIN PANEL

For further information see attached pamphlet
Vir verdere inligting sien aangehegte pamflet

CungFu 538 SC

Reg. No. L7526, Act No. 36 of 1947

Reg. Nr. L7526, Wet Nr. 36 van 1947

Botswana Reg. No. W130468, Act No. 18 of 1999

Malawi Reg. No. MW/PCB/2011/0357

Namibia/Namibiese Reg. No./Nr. N-AR 1333

READ THE LABEL BEFORE USE
KEEP OUT OF REACH OF CHILDREN AND ANIMALS

A suspension concentrate contact fungi and bactericide to control the diseases listed on the crops as indicated.

'n Suspensie konsentraat kontak swam- en bakteriedoder vir die beheer van genoemde siektes op gewasse soos aangedui.

GROUP/GROEP

M1

FUNGICIDE/SWAMDODER

ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL:

Copper hydroxide 542 g/l Koperhidroksied
Copper equivalent 353 g/l Koper ekwivalent



Inspected by Ecocert SA F-32600
Product allowed for use in organic agriculture according to
EU Regulation 2018/848 & 2021/1165



WARNING

GHS Hazard Statements

Harmful if swallowed or if inhaled.
Very toxic to aquatic life with long lasting effects.

GHS Precautionary Statements

Do not breathe dust, fume, gas, mist
vapours or spray.
Wash thoroughly after handling.



REGISTRATION HOLDER / REGISTRASIEHOUER:

AECI® Limited / AECI® Beperk)

Reg. No. / Nr. 1924/002590/06

P.O. Box / Posbus 14418

Witfield, 1467

Tel : (011) 823 8000 www.aeciph.com / www.aeciworld.com

IN CASE OF POISONING PLEASE PHONE / IN GEVAL VAN VERGIFTIGING SKAKEL 0861555777 / 0824468946

Net Volume



Netto Volume

Batch No:

Date of Manufacture:

Lotnommer:

Datum van Vervaardiging:

UN No. 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Pamphlet

CungFu 538 SC

Reg. No. L7526, Act No. 36 of 1947
Botswana Reg. No. W130468, Act. No. 18 of 1999
Malawi Reg. No. MW/PCB/2011/0357
Namibia Reg. No. N-AR 1333

READ THE LABEL BEFORE USE
KEEP OUT OF REACH OF CHILDREN AND ANIMALS

A suspension concentrate contact fungi and bactericide to control the diseases listed on the crops as indicated.

FUNGICIDE GROUP CODE	M1
-----------------------------	-----------

ACTIVE INGREDIENT:

Copper hydroxide 542 g/ℓ
Copper equivalent 353 g/ℓ

REGISTRATION HOLDER :

AECI® Limited
Reg. No. 1924/002590/06
P.O. Box 14418
Witfield, 1467
Tel : (011) 823 8000



WARNING

WARNINGS:

GHS Hazard Statements

Harmful if swallowed or if inhaled.
Very toxic to aquatic life with long lasting effects.

IMPORTANT WARNING: ALL CROPS (including SOFT CITRUS/EASY PEELERS): The spraying of any mixture containing registered agricultural remedies with a pH less than 6.5 after spraying CungFu 538 SC, may cause phytotoxicity on leaves as well as fruit.

IF THE CROP TO BE TREATED IS INTENDED FOR EXPORT, CONSULT THE RELEVANT EXPORTING ORGANISATION REGARDING WITHHOLDING PERIODS.

IN THE CASE OF CROPS GROWN FOR LOCAL CONSUMPTION ALLOW THE FOLLOWING WITHHOLDING PERIODS:

TABLE GRAPES	DO NOT APPLY AFTER BERRIES HAVE REACHED THE PEA SIZE STAGE (4 – 6 WEEKS PRIOR TO HARVESTING)
AVOCADOS, CITRUS, COFFEE, LETTUCE, MANGOES, POTATOES, PEACHES & PLUMS	ALLOW 14 DAYS BETWEEN LAST APPLICATION AND HARVESTING
ONIONS	DO NOT APPLY LATER THAN 3 DAYS BEFORE HARVESTING
TOMATOES, CRUCIFERAE & BEANS	DO NOT APPLY LATER THAN 3 DAYS BEFORE HARVESTING
WINE GRAPES	DO NOT APPLY LATER THAN 21 DAYS BEFORE HARVESTING

Withholding periods are based on good agricultural practice and when followed, local (SA) MRL's will be met if the recommended dosage is applied. For fruit destined for export, consult your export agent or supplier for the latest withholding periods relevant to your export market.

Keep out of reach of children, animals and uninformed persons.

Store away from food and feedstuffs.

Re-entry: Do not enter treated area within 1 day after treatment unless wearing protective clothing.

In case of poisoning – CALL A DOCTOR AND MAKE THIS LABEL AVAILABLE TO HIM/HER.

Aerial Application - notify all inhabitants of the immediate area to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate water or adjacent areas.

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 TO 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 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:

GHS Precautionary Statements

Do not breathe dust, fume, gas, mist, vapours or spray.

Wash thoroughly after handling.

Wear protective glove, protective clothing, eye protection & face protection

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Call a POISON CENTRE or doctor/ physician if you feel unwell.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTRE.

CungFu 538 SC should not be applied in a spray solution having a pH of less than 6.5 as phytotoxicity may occur.

Do not eat, drink or smoke whilst mixing or applying or before washing hands and face and changing clothes.

Prevent contamination of food, feed, drinking water and eating utensils.

Prevent spray drift onto other crops, grazing, rivers, dams and other areas not under treatment.

Clean applicator thoroughly after use and dispose of wash water where it will not contaminate crops, grazing, rivers or dams.

Triple rinse the empty container: Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler (www.croplife.co.za). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.

RELEVANT SUBSTANCES:

Substance name (IUPAC/EC)	Concentration % by weight	Classification
		EC1272/2008
Copper dihydroxide	20-50%	Acute Toxicity oral (Category 4) H302. Acute Toxicity inhalation (Category 2) H330. Serious Eye Damage (Category 1) H318, Aquatic acute 1 H400. Aquatic chronic 1 H411. M=10
Ethoxylated fatty alcohol	1-5%	Acute Toxicity oral (Category 4) H302. Serious eye damage (Category 1) H318.
Mono ethylene glycol	1-5%	Acute Toxicity oral (Category 4) H302.

NOTE: The other ingredients not included above, do not cause or contribute towards the correct GHS classification of **CungFu 538 SC** and is therefore, in terms of the South African Regulations for Hazardous Chemical Agents - 2021; Regulation 14(b), not listed.

FIRST AID:

In case of inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

In case of skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

In case of eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. WARM water MUST be used. Get medical attention.

In case of ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

NOTE TO PHYSICIAN:

No specific antidote. Treat symptomatically.

RESISTANCE WARNING:

For resistance management, **CungFu 538 SC** is a Group code M1 fungicide. Any fungus may contain individuals naturally resistant to **CungFu 538 SC** and other Group code M1 fungicides. The resistant individuals can eventually dominate the fungus if these fungicides are used repeatedly. The resistant fungi may not be controlled by **CungFu 538 SC** or any other Group code M1 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.
- Integrate other control methods (chemical, cultural, biological) into disease control programmes.

For specific information on resistance management contact the registration holder of this product

MODE OF ACTION:

Once absorbed copper is thought to disrupt the enzyme system of pathogenic organisms.

AERIAL APPLICATION:

Aerial application 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 Remedies). It is important to ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria are met:

Equipment:

Use suitable atomising equipment (hydraulic nozzles or rotary atomisers) that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product through drift.

The operator must use a setup that will produce a droplet spectrum with the lowest possible relative span.

All nozzles / atomisers should be positioned within the inner 60 to 75 % of the wingspan to prevent droplets from entering the wingtip vortices.

Application parameters:

A minimum volume of 30 - 40 l spray mixture per hectare 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.

A droplet coverage of 50 - 70 droplets per cm² must be recovered at the target.

A droplet spectrum with a VMD (Volume Median Diameter) of 200 to 250 microns is recommended. Ensure that the production of fine droplets (smaller than 150 microns) is restricted to a minimum.

The height of the spray boom should be maintained at 3-4 metres above the target. Do not spray when aircraft is in a climb, at the top or during a dive, or when banking.

Apply before the crop becomes too dense, thus preventing proper coverage of the plants.

Meteorological conditions:

The difference between the wet and dry bulb readings as determined by a whirling hygrometer, must not exceed 8 °C

Do not spray under turbulent, unstable conditions during the heat of the day when rising thermals and downdraughts occur.

Do not spray under temperature inversion conditions (spraying in or above the inversion layer).

Do not spray if the wind speed exceeds 15 km/h.

General:

Ensure that fields are accurately marked and that the aerial spray operator knows exactly which fields to spray.

Obtain an assurance from the aerial spray operator that the above requirements will be met.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

COMPATIBILITY:

The use of a registered adjuvant to enhance the performance of **CungFu 538 SC**, is strongly recommended. The compatibility with agricultural remedies is unknown.

Therefore, do not apply in a mixture with other chemicals, unless proved to be safe.

Copper should not be mixed with acidifiers or any compound that increases the systemic uptake of copper.

MIXING INSTRUCTIONS:

Shake CungFu 538 SC container thoroughly before use.

Measure the required volume of **CungFu 538 SC**. Half fill the spray tank with water. Activate the agitator in the spray tank and mix the products in the following sequence: Adjuvant, wettable powder, suspension concentrate and emulsifiable concentrate. Fill the spray tank to the required volume. Maintain agitation throughout mixing and application. Do not leave spray mixture, standing in any spray or supply tank for any length of time.

If compatibility is in question, use the "Compatibility Jar Test" before mixing a whole tank.

The addition of foliar feeds may result in a reduction of spray water pH.

Ensure that the pH of the spray mixture (suspension) is not below 6,5 after the addition of **CungFu 538 SC**, as phytotoxicity may occur.

GENERAL APPLICATION INSTRUCTIONS:

Ensure good coverage of both upper and lower surfaces by applying the recommended water volume and use as a preventative measure. Shorten spray intervals under conditions favourable to the disease concerned. Repeat treatments where more than 13 mm of rain or overhead irrigation was experienced within 72 hours after application.

APPLICATION TABLE:

CROP	DISEASE	APPLICATION RATE (ml / 100 ℓ water OR ℓ / ha)	METHOD OF APPLICATION
BEANS	BACTERIAL BLIGHT: HALO BLIGHT (<i>Pseudomonas phaseolicola</i>) COMMON BLIGHT (<i>Xanthomonas phaseoli</i>)	150 ml/100 ℓ water to a maximum of 1,9 ℓ/ha	Apply every 7 - 14 days depending on disease pressure. Spray immediately after heavy rain, hail or dust storms. Ground application: Depending on plant size, use 500 - 1 000 ℓ spray mixture/ha. Aerial application: Apply in 30 – 40 ℓ water/ha.
COFFEE	RUST (<i>Hemileia vastatrix</i>)	250 ml / 100 ℓ water to a maximum of 3,5 ℓ / ha	Apply as a full cover spray. Begin application in October/November and repeat 4-5 times with 4 week intervals. Apply 1 000 ℓ spray mixture per hectare.
DECIDUOUS FRUIT Plums	BACTERIAL SPOT (<i>Xanthomonas campestris</i> pv. <i>pruni</i>)	150 ml/ 100 ℓ water to a maximum of 5 ℓ / ha 75 ml + 200 g spray lime/100 ℓ water to a maximum of 10 ℓ / ha 150 ml + 200 g spray lime/100 ℓ water to a maximum of 5 ℓ / ha 150 ml + 200 g spray lime/100 ℓ water to a maximum of 5 ℓ / ha	AT BUD SWELL STAGE: Apply as a high volume application using 1 200 – 2 000 ℓ spray mixture / ha. PERIOD 90 % PETAL DROP TO 14 – 21 DAYS BEFORE HARVESTING: MODERATELY INFECTED ORCHARDS: Apply as a high volume application at 14 day intervals using 1 500 – 2 500 ℓ spray mixture/ha. SEVERELY INFECTED ORCHARDS: Apply as indicated above. 75 % LEAF DROP: Apply a single application using 1 500 – 2 500 ℓ spray mixture/ha. NOTE: DO NOT APPLY TO THE CULTIVAR RUBY NEL. Spreaders and stickers are not recommended.
Nectarines, Peaches	LEAF CURL (<i>Taphrina deformans</i>)	200 ml/ 100 ℓ water to a maximum of 10 ℓ / ha	Apply as a high volume application. Use 1 200 – 2 000 ℓ spray mixture /ha. Apply a single application at bud swell.
GRAPES	DOWNY MILDEW (<i>Plasmopora viticola</i>)	150 ml/ 100 ℓ water to a maximum of 2 ℓ / ha	Begin spraying when the shoots are approximately 10 cm long and repeat at 10 – 14 day intervals as long as required.
ONIONS	BACTERIAL Leaf blight (<i>Xanthomonas</i> spp.)	750 ml / ha	SUPPRESSION ONLY: Apply preventatively as a full cover spray and repeat at 7-day intervals. Do not exceed 5 sprays.
ORNAMENTALS Roses	BLACK SPOT (<i>Actinonema rosae</i>)	225 ml/100 ℓ water	Apply at first signs of disease and repeat treatment weekly. Good coverage must be obtained.
Carnations Gladioli	RUST (<i>Uromyces</i> spp.)	375 ml/100 ℓ water	Begin application when plants are well established (10 – 15 cm high) and repeat treatment at weekly intervals when necessary.
Ornamentals generally	DOWNY MILDEW (<i>Peronospora</i> spp.) RUST (<i>Uromyces</i> spp., <i>Puccinia</i> spp.) LEAF SPOT (<i>Alternaria</i> spp.)	375 ml/100 ℓ water	Apply at first signs of disease symptoms and repeat as long as necessary at 7 – 10 day intervals.

SUBTROPICAL FRUIT AND CITRUS: Avocados	FRUIT SPOT (<i>Pseudocercospora purpurea</i>)	180 ml/ 100 ℓ water to a maximum of 12 ℓ/ ha + 25 ml of a registered adjuvant	Apply 3 full cover sprays, the first application during middle/end November and repeat at 4 week intervals. The use of a suitable registered adjuvant is advisable.
Mangoes	BACTERIAL SPOT (<i>Pseudomonas mangiferae-indicae</i>)	225 ml/ 100 ℓ water to a maximum of 13,5 ℓ/ ha	Apply as a high volume cover spray. Commence spraying at beginning of fruit set and repeat at 14 – 28 day intervals.
Citrus	BLACK SPOT (<i>Guignardia citricarpa</i>) ALTERNARIA SPOT (<i>Alternaria citri</i>)	120 ml / 100 ℓ water to a maximum of 15 ℓ/ ha 150 ml/ 100 ℓ water to a maximum of 15 ℓ/ ha OR 75 ml + 100 g mancozeb to a maximum of 8 ℓ/ ha.	NORMAL SEASON: Apply 3 high volume cover sprays at 30 – 35 day intervals starting before the end of October. NB; Stippling may occur when there are more than 3 copper applications made per season and existing lesions may become darker. WET SEASON: Apply 4 applications at 30 – 35 day intervals starting at 100 % petal drop. Use with a suitable wetter or sticker. Apply as a high volume cover spray. Commence spraying at balloon stage and repeat at 4 - 6 week intervals (4 – 6 sprays). The number of applications depends on weather conditions during February – April. During wet conditions additional applications are necessary to inhibit further infections.
POTATOES	EARLY BLIGHT (<i>Alternaria solani</i>)	150 ml/100 ℓ water to a maximum of 2,25 ℓ/ha	Begin spraying before or as soon as the first disease symptoms are noticed. Repeat at 7 – 10 day intervals and after rain. Ground application: Depending on plant size use 500 - 1 500 ℓ spray mixture/ha. Aerial application: Apply in 30 – 40 ℓ water/ha.
TOMATOES	EARLY BLIGHT (<i>Alternaria solani</i>) ----- BACTERIAL SPOT (<i>Xanthomonas vesicatoria</i>) ----- BACTERIAL SPECK (<i>Pseudomonas tomato</i>)	150 ml/100 ℓ water to a maximum of 3 ℓ/ha	Spray seedbeds weekly. Apply at first signs of disease in tomato fields. Repeat at 7 - 10 day intervals and after rain. Depending on the plant size, use 500 - 2 000 ℓ spray mixture/ha. Where mist blowers are used, apply 2 - 3 ℓ CungFu 538 SC in 500 ℓ water/ha.
VEGETABLES Cruciferae (Cabbage crops)	BACTERIAL SPOT (<i>Pseudomonas maculicola</i>) DOWNY MILDEW (<i>Peronospora parasitica</i>)	150 ml/ 100 ℓ water to a maximum of 1,5 ℓ/ ha	Apply at 7 – 14 day intervals. Ensure good coverage.
Lettuce	LEAF SPOT (<i>Pseudomonas cichorii</i> , <i>Septoria lactucae</i>)	150 ml/ 100 ℓ water to a maximum of 1,5 ℓ/ ha	Begin spraying 2 weeks after plants have established and repeat at 7 – 14 day intervals. Ensure good coverage.
SEEDLINGS	DAMPING OFF and other SOIL FUNGI	200 ml/100 ℓ water	Apply at the rate of 15 ℓ mixture/10 m ² on seedbeds.

CungFu 538 SC

Reg. Nr. L7526, Wet Nr. 36 van 1947

'n Suspensie konsentraat kontak swam- en bakteriedoder vir die beheer van genoemde siektes op gewasse soos aangedui.

SWAMDODERGROEPKODE M1

AKTIEWE BESTANDDEEL:

Koperhidroksied 542 g/l

Koper ekwivalent 353 g/l



Inspected by Ecocert SA F-32600
Product allowed for use in organic agriculture according to
EU Regulation 2018/848 & 2021/1165



GHS Gevaarstellings

Skadelik indien ingesluk of ingeasem.

Baie giftig vir waterlewendes organismes met langdurige
gevolge.

GHS Voorsorgstellings

Moenie eier/walm/gas/stuifsel/dampe/spuitstof inasem nie.

Was hande deeglik na hantering.

WAARSKUWING



REGISTRASIEHOUER :

AECI® Beperk)

Reg. Nr. 1924/002590/06

Posbus 14418

Witfield, 1467

Tel : (011) 823 8000

WAARSKUWINGS:

GHS Gevaarstellings

Skadelik indien ingesluk of ingesem.
Baie giftig vir waterlewendes organismes
met langdurige gevolge.

BELANGRIKE WAARSKUWING: ALLE GEWASSE (insluitend “SOFT/EASY PEELER” SITRUS): Die bespuiting van 'n mengsel wat geregistreerde landboumiddels bevat met 'n pH laer as 6.5 na die toediening van CungFu 538 SC mag lei tot fitotoksiseit op die blare sowel as die vrugte.

INDIEN DIE GEWAS WAT BEHANDEL WORD BESTEM IS VIR UITVOERDOELEINDES, RAADPLEEG DIE BETROKKE UITVOERORGANISASIE VIR VOORSKRIFTE RAKENDE AANGEWESE ONTHOUDINGSPERIODES.

INDIEN DIE GEWAS WAT BEHANDEL WORD BESTEM IS VIR PLAASLIKE GEBRUIK, LAAT DIE VOLGENDE ONTHOUDINGSPERIODES TOE:

TAFELDRIUWE MOENIE TOEDIEN NADAT KORRELS ERTJIEKORRELGROOTTE BEREIK HET NIE (4 – 6 WEKE VÓÓR OES)

**AARTAPPELS, AVOKADO'S, LAAT 14 DAE TOE TUSSEN LAASTE BESPUITING EN OES
KOFFIE, MANGO'S, SITRUS,
PERSKES, PRUIME & SLAAI**

**BONE, KOOLGEWASSE, MOENIE LATER AS 3 DAE VÓÓR OES TOEDIEN NIE
& TAMATIES**

UIE MOENIE LATER AS 3 DAE VÓÓR OES TOEDIEN NIE

WYNDRIUWE MOENIE LATER AS 21 DAE VÓÓR OES TOEDIEN NIE

Onthoudingsperiodes is gebaseer op goeie landboukundige praktyk en sal voldoen aan plaaslike (SA) MRL vlakke indien teen die aanbevole dosis toegedien word. Vir uitvoervrugte, kontak u uitvoerder óf verskaffer om die nuutste onthoudingsperiode vir u betrokke uitvoermark te bekom.

Hou buite bereik van kinders, diere en oningeligte persone.

Berg weg van voedsel en voer.

Herbetreding: Moenie behandelde gebied betree binne 1 dag na die bespuiting nie, tensy beskermende oorklere gedra word. In geval van vergiftiging – ONTBIED 'N GENEESHEER EN STEL HIERDIE ETIKET AAN HOM /HAAR BESKIKBAAR.

Lugtoediening - stel alle persone in die onmiddellike omgewing van die gebied wat behandel gaan word in kennis en reik die nodige waarskuwings uit. Moenie aangrensende gebiede of waterbronne bespuit of toelaat dat die sproeinewel daarheen oorwaai nie.

ALHOEWEL HIERDIE MIDDEL OMVATTEND ONDER 'N GROOT VERSKEIDENHEID TOESTANDE GETOETS IS WAARBORG DIE REGISTRASIEHOUDER 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 AKKURATHEID VAN TOEDIENING. VERDER AANVAAR DIE REGISTRASIEHOUDER 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 DIE GEVAL VAN ENIGE ONSEKERHEID.

VOORSORGMAATREËLS:

GHS Voorsorgstellings

Moenie eier/walm/gas/stuifsel/dampe/spuitstof inasem nie.

Was hande deeglik na hantering.

Dra beskermende handskoene/beskermende

klere/oogbeskerming/gesigbeskerming/gehoorbeskerming.

INDIEN IN OË: Spoel versigtig met water vir etlike minute.

Verwyder kontaktese indien aanwesig en maklik om te

verwyder. Hou aan met spoel.

INDIEN INGESLUK: Kry onmiddellik mediese noodhulp.

INDIEN INGEASEM: Neem slagoffer na vars lug en hou

gemaklik vir asemhaling.

INDIEN INGEASEM: Kry mediese hulp.

Moenie **CungFu 538 SC** by 'n spuitmengsel voeg waarvan die pH laer as 6,5 is nie, aangesien fitotoksisiteit mag voorkom.

Vermyn inaseming van sproeiwater en oogkontak.

Dra beskermende klere, rubberhandskoene, stewels en gesigskerm wanneer spuitmengsel voorberei word.

Moenie eet, drink of rook tydens vermenging of toediening óf voordat hande en gesig gewas en skoon klere aangetrek is nie.

Verhoed besoedeling van voedsel, voer, drinkwater en eetgerei.

Verhoed die wegdrywing van sproeiwater na ander gewasse, weidings, riviere, damme en ander gebiede wat nie behandel word nie.

Maak spuitapparaat skoon na gebruik en moenie ander gewasse, weiding, riviere of damme met waswater besoedel nie.

Spoel die houer driekeer uit met 'n volume water gelykstaande aan 'n minimum van 30% van die houer. Gooi die spoelwater by die inhoud van die spuittenk voordat die houer vernietig word. Vernietig leë houer en moenie vir ander doeleindes gebruik nie. Leë houe wat driekeer uitgespoel is kan aan 'n goedgekeurde verwerkingsmaatskappy gestuur word.

RELEVANTE STOWWE:

Naam van stowwe (IUPAC/EC)	CAS –Nr.	Konsentrasie	Klassifikasie
	EC-Nr.	% per gewig	EC1272/2008
koperdihidrosied	20427-59-2	20-50%	Akute orale toksisiteit (Kategorie 4) H302. Akute inhalasie toksisiteit (Kategorie 2) H330. Ernstige oogskade (Kategorie 1) H318, Akwatiese akute 1 H400. Akwatiese kronies 1 H411. M=10
	243-815-9		
Geëtikseleerde vetterige alkohol	78330-20-8	1-5%	Akute orale toksisiteit (Kategorie 4) H302. Ernstige oogskade (Kategorie 1) H318.
	616-607-4		
Mono-etileenglikol	107-21-1	1-5%	Akute orale toksisiteit (Kategorie 4) H302.
	203-473-3		

NOTA: Die ander bestanddele wat nie hierbo gelys is nie, veroorsaak of dra nie by tot die korrekte GHS klassifikasie van **CungFu 538 SC** nie en is daarom, in terme van die Suid-Afrikaanse Regulasies vir "Hazardous Chemical Agents" 2021; Regulasie 14(b) nie gelys nie.

NOODHULPBEHANDELING:

- Inaseming: Indien ingeasem, verwyder pasiënt na vars lug. Indien die pasiënt ophou asemhaal, dien kunsmatige asemhaling toe. Indien asemhaling bemoeilik word, gee suurstof. Verkry mediese behandeling.
- Velkontak: In geval van velkontak, spoel onmiddellik met genoegsame water vir minstens 15 minute terwyl besoedelde klere en skoene verwyder word. Bedek geïrriteerde vel met 'n sagte room. Was klere en besoedelde skoene voor her-gebruik. Verkry mediese behandeling.
- Oogkontak: Verseker dat enige kontaklense verwyder word. In geval van oogkontak, spoel onmiddellik met genoegsame water vir minstens 15 minute. WARM water MOET gebruik word. Verkry mediese behandeling.
- Ingesluk: MOENIE braking veroorsaak tensy so aanbeveel deur mediese personeel. Moet nooit iets per mond aan 'n bewustelose persoon gee nie. Indien groot hoeveelhede van die middel gedrink is, kontak 'n geneesheer onmiddellik. Maak styfpassende klere, soos bv. kraag, belt of gordel los.

NOTA AAN GENEESHEER:

Geen spesifieke teenmiddel. Behandel simptome.

WEERSTANDSWAARSKUWING:

CungFu 538 SC is 'n groepkode M1 swamdoder. Enige populasie van 'n spesifieke swam mag individue insluit wat 'n natuurlike weerstand teen **CungFu 538 SC** of enige ander groepkode M1 swamdoder het. Indien hierdie swamdoders herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die swampopulasie oorheers. Hierdie weerstandbiedende swamme sal waarskynlik nie deur **CungFu 538 SC** of enige ander groepkode M1 swamdoder beheer word nie.

Om weerstand teen swamdoders te vertraag:

- Vermyn die eksklusiewe herhaaldelike gebruik van swamdoders met dieselfde groepkode. Wissel af met, of gebruik tenkengsels van produkte in verskillende swamdodergroepkodes.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies) in siektebeheerprogramme.

Vir spesifieke inligting oor weerstandsbestuur kontak die registrasiehouer van hierdie produk.

METODE VAN WERKING:

Die gedagte is dat sodra koper geabsorbeer word, ontwrig dit die ensiensistiem van die patogeniese organismes.

LUGTOEDIENING :

Lugtoediening mag slegs deur 'n geregistreerde lugbespuitingsoperateur met 'n korrek gekalibreerde, geregistreerde vliegtuig volgens die instruksies van SANS kode 10118 (Aerial Application of Agricultural Remedies) gedoen word. Dit is belangrik om te verseker dat die spuitmengsel eweredig oor die teikenarea versprei word en dat die verlies aan spuitmengsel tydens toediening tot 'n minimum beperk word. Dit is dus belangrik om aan die volgende kriteria te voldoen:

Toerusting:

- Gebruik geskikte atomiseringsapparaat (hidroliese of roterende spuitkoppe) wat die vereiste druppelgrootte en bedekking sal produseer, maar wat die minste verlies van produk deur wegdrywing sal verseker.
- Die operateur moet 'n stelsel gebruik wat 'n druppelspektrum met die kleinste moontlike relatiewe span sal produseer.
- Al die spuitneuse/atomiseerders moet in die binneste 60 tot 75 % van die vlerkspan geplaas word om die beweging van druppels in die vlerkvorteks in te verhoed.

Toedieningsparameters:

- 'n Minimum volume van 30 - 40 l spuitmengsel per hektaar word aanbeveel. Aangesien hierdie produk nie teen 'n verlaagde volume getoets is nie, kan die registrasiehouer nie effektiwiteit waarborg, of verantwoordelik gehou word vir enige nadelige effek indien hierdie produk teen 'n laer volume as hierbo aanbeveel, uit die lug toegedien word nie.
- 'n Druppelbedekking van 50 - 70 druppels per cm² moet op die teikenarea herwin word.
- 'n Druppelspektrum met 'n VMD van 200 tot 250 mikron word aanbeveel. Verseker dat die produksie van fyn druppels (kleiner as 150 mikron) tot 'n minimum beperk word.
- Die hoogte van die spuitbalk moet op 3-4 meter bo die teiken gehandhaaf word. Moenie spuit wanneer die vliegtuig aan die bopunt is van, of tydens 'n duik, of terwyl dit uitklim of draai nie.
- Dien toe voordat die gewas te ruig word wat sal verhoed dat plante behoorlik bedek word.

Meteorologiese toestande :

- Die verskil tussen die nat- en droëbollesing, soos met 'n swaaihygrometer bepaal, moet nie 8°C oorskry nie.
- Moenie toedien tydens turbulente, onstabiele toestande gedurende die hitte van die dag wanneer styg en dalende konveksie windbeweging plaasvind nie.
- Moenie toedien onder temperatuur inversie toestande (deur bo of binne die inversielaag te spuit) nie.
- Moenie spuit indien die windspoed 15 km/uur oorskry nie.

Algemeen :

- Sorg dat die lande akkuraat gemerk is en die spuitoperator presies weet watter lande gespuit moet word.
- Verkry 'n versekering van die spuitoperator dat aan die bogenoemde vereistes voldoen sal word.

GEBRUIKSAANWYSINGS: GEBRUIK SLEGS SOOS AANGEDUI

VERENIGBAARHEID:

Die gebruik van 'n geregistreerde bevorderingsmiddel vir die verbetering van **CungFu 538 SC** se uitwerking, word sterk aanbeveel. Die mengbaarheid met ander landboumiddels, nog onbekend.

Moenie in 'n mengsel met ander landboumiddels gebruik, tensy die veiligheid daarvan bewys is nie.

Moenie koper met versuurders of enige ander verbindings, wat die sistemiese opname van koper mag verhoog, gebruik nie.

MENGINSTRUKSIES:

Skud **CungFu 538 SC houer deeglik voor gebruik.**

Meet die benodigde hoeveelheid **CungFu 538 SC** af. Vul spuittenk halfvol met water, aktiveer die roerder in die spuittenk en meng produkte in die genoemde volgorde: bevorderingsmiddel, benatbare poeier, suspensie konsentraat en emulgeerbare konsentraat. Vul spuittenk tot die verlangde volume. Roer aanhoudend gedurende vermenging en toediening. Moenie spuitmengsel in enige spuit- of toevoertenk, vir 'n onbepaalde tyd laat staan nie.

Indien daar enige onsekerheid oor die mengbaarheid van produkte bestaan, gebruik die "Mengbaarheid Beker Toets" voordat 'n hele tenk gemeng word.

Die byvoeging van blaarvoedingstowwe mag 'n verlaging in die pH van die spuitwater tot gevolg hê.

Maak seker dat die pH van die spuitmengsel (suspensie) nie laer as 6,5, na die byvoeging van **CungFu 538 SC** is nie, aangesien fitotoksisiteit mag voorkom.

ALGEMENE TOEDIENINGSAANWYSINGS:

Verseker goeie benatting van beide bo- en onderkant van blare deur die aanbevole volume water te gebruik en dien as 'n voorkomende behandeling toe. Verkort die spuit tussenpose waar omstandighede dié betrokke siekte bevoordeel. Indien meer as 13 mm reën óf oorhoofse besproeiing binne 72 uur vanaf toediening ondervind word, moet die behandeling herhaal word.

TOEDIENINGSTABEL:

GEWAS	SIEKTE	TOEDIENINGSHOEVEELHEID (ml / 100 l water OF l / ha)	TOEDIENINGSMETODE
AARTAPPELS	VROEËROES (<i>Alternaria solani</i>)	150 ml/100 l water tot 'n maksimum van 2,25 l/ha	Dien toe vóór óf direk na eerste tekens van siektesimptome opgemerk word. Herhaal met 7 - 10 dae tussenpose en na reën. <u>Grondtoediening:</u> Dien 500 -1 500 l spuitmengsel /ha toe afhangende van die grootte van die plante. <u>Lugtoediening:</u> Dien toe in 30 - 40 l water /ha.
BONE	BAKTERIESE VLEK (<i>Pseudomonas phaseolicola</i>) ----- BAKTERIESE SKROEISIEKTE (<i>Xanthomonas phaseoli</i>)	150 ml/100 l water tot 'n maksimum van 1,9 l/ha	Dien elke 7-14 dae toe afhangende van die besmettingsdruk. Bespuit onmiddellik na swaar reën, hael óf stofstorms. <u>Grondtoediening:</u> Dien 500 – 1000 l spuitmengsel/ha toe afhangende van die grootte van die plante. <u>Lugtoediening:</u> Dien toe in 30 - 40 l water/ha.

DRIUWE	DONSIGE SKIMMEL (<i>Plasmopara viticola</i>)	150 ml/100 ℓ water tot 'n maksimum van 2 ℓ/ha	Begin bespuiting sodra die lote omtrent 10 cm lank is en herhaal met intervalle van 10 – 14 dae vir solank as wat dit nodig blyk te wees.
GROENTE Koolgewasse	BAKTERIESE VLEK (<i>Pseudomonas maculicola</i>) ----- DONSIGE SKIMMEL (<i>Peronospora parasitica</i>)	150 ml/100 ℓ water tot 'n maksimum van 1,5 ℓ/ha	Dien met intervalle van 7 -14 dae toe. Verseker 'n goeie bedekking.
Slaai	BLAARVLEK (<i>Pseudomonas cichorii</i> , <i>Septoria lactucae</i>)	150 ml/100 ℓ water tot 'n maksimum van 1,5 ℓ/ha	Begin bespuiting 2 weke nadat plante gevestig is en herhaal met intervalle van 7 – 14 dae. Verseker 'n goeie bedekking
KOFFIE	BRUINROES (<i>Hemileia vastatrix</i>)	250 ml/100 ℓ water tot 'n maksimum van 3,5 ℓ/ha	Dien toe as 'n voldekbespuiting. Begin toediening gedurende Oktober/November en herhaal 4 – 5 keer met 4 weke tussenposes. Dien toe in 1 000 ℓ spuitmengsel/ha.
UIE	BAKTERIESE Blaarvlek (<i>Xanthomonas</i> spp.)	750 ml/ha	<u>SLEGS ONDERDRUKKING:</u> Dien voorkomend toe as 'n voldekbespuiting en herhaal met 7-dae tussenposes. Moenie 5 bespuitings oorskry nie.
SAGTEVRUGTE Pruime	BAKTERIESE VLEK (<i>Xanthomonas campestris</i> pv. <i>Pruni</i>)	150 ml/100 ℓ water tot 'n maksimum van 5 ℓ/ha 75 ml + 200 g spuitkalk / 100 ℓ water tot 'n maksimum van 10 ℓ/ha 150 ml + 200 g spuitkalk / 100 ℓ water tot 'n maksimum van 5 ℓ/ha 150 ml + 200 g spuitkalk / 100 ℓ water tot 'n maksimum van 5 ℓ/ha	TYDENS KNOPSWELSTADIUM: Dien toe as 'n hoë volume bespuiting teen 1 200 tot 2 000 ℓ spuitmengsel/ha, met 14-dae tussenpose. PERIODE 90 % BLOMBLAARVAL TOT 14 –21 DAE Vóór OES: BOORDE MET MATIGE BESMETTING: Dien met intervalle van 14-dae toe as 'n hoë volume bespuiting en gebruik 1 500 – 2 500 ℓ spuitmengsel/ha. SWAAR BESMETTE BOORDE: Dien toe soos hierbo aangedui. 75 % BLAARVAL: Dien 'n enkel toediening teen 1 500 – 2 500 ℓ spuitmengsel/ha toe. NOTA: MOENIE OP DIE KULTIVAR RUBY NEL GEBRUIK NIE. Kleef- en benattingsmiddels word nie aanbeveel nie.
----- Nektariens, Perskes	KRULBLAAR (<i>Taphrina deformans</i>)	200 ml/100 ℓ water tot 'n maksimum van 10 ℓ/ha	Dien toe as 'n hoë volume bespuiting. Gebruik 1 200 – 2 000 ℓ spuitmengsel/ha. Bespuit eenkeer tydens knopswelstadium.
SIERPLANTE Rose	SWARTVLEK (<i>Actinonema rosae</i>)	225 ml/100 ℓ water	Dien toe tydens die eerste tekens van siekte en herhaal behandeling weekliks. 'n Goeie benatting is noodsaaklik.
Angeliere, Swaardlelies	BRUINROES (<i>Uromyces</i> spp.)	375 ml/100 ℓ water	Begin toediening sodra plante goed gevestig is (10 – 15 cm hoog), en herhaal behandelings met weeklikse tussenpose soos benodig.

Sierplante Algemeen	DONSIGE SKIMMEL (<i>Peronospora</i> spp.) BRUINROES (<i>Uromyces</i> spp., <i>Puccinia</i> spp.) BLAARVLEK (<i>Alternaria</i> spp.)	375 ml/100 l water	Begin bespuiting met eerste simptome van siekte en herhaal so lank as wat benodig word met 7-10 dae intervalle.
SUBTROPIESE VRUGTE EN SITRUS Avokado's	VRUGTEVLEK (<i>Pseudocercospora purpurea</i>)	180 ml/100 l water tot 'n maksimum van 12 l/ha + 25 ml van 'n geregistreerde benattingsmiddel	Dien 3 voldekbepuitings toe. Die eerste bespuiting middel/einde November en herhaal met intervalle van 4 weke. Gebruik 'n geskikte byvoegingsmiddel.
Mango's	BAKTERIESE VLEK (<i>Pseudomonas mangiferae indicae</i>)	225 ml/100 l water tot 'n maksimum van 13,5 l/ha	Dien toe as 'n hoë volume dekbepuiting. Dien toe met vrugset en herhaal met intervalle van 14 – 28 dae.
Sitrus	SWARTVLEK <i>Guignardia citricarpa</i>)	120 ml/100 l water tot 'n maksimum van 15 l/ha	GEWONE SEISOEN: Begin teen einde Oktober en dien 3 hoë volume dekbepuitings toe met intervalle van 30 tot 35 dae. Gebruik 'n geskikte kleef- of benattingsmiddel. NB: Stippels mag voorkom sodra meer as 3 koper toedienings per seisoen gedoen word en bestaande letsels mag donkerder word. NAT SEISOEN: Dien 4 bespuitings toe met intervalle van 30 – 35 dae tydens aanvang van 100% blomblaarval.
	ALTERNARIA VLEK (<i>Alternaria citri</i>)	150 ml/100 l water tot 'n maksimum van 15 l/ha OF 75 ml + 100 g mankoseb tot 'n maksimum van 8 l/ha	Dien as 'n hoë volume dekbepuiting toe. Begin bespuiting met ballonstadium en herhaal met intervalle van 4 – 6 weke (4 – 6 bespuitings). Hoeveel bespuitings toegedien moet word hang af van die weerstoestande gedurende Februarie – April. By nat toestande is bykomende toedienings nodig om verdere besmettings te inhibeer.
SAAILINGE	SAAILING VERWELK SIEKTE en ander grond swamme	200 ml/100 l water	Dien op saadbeddings toe teen 'n dosis van 15 l mengsel/10 m ² .

TAMATIES	VROEËROES (<i>Alternaria solani</i>) BAKTERIESE VLEK (<i>Xanthomonas vesicatoria</i>) BAKTERIESE SPIKKEL (<i>Pseudomonas tomato</i>)	150 ml/100 l water tot 'n maksimum van 3 l/ha	Bespuit saadbeddings weekliks. Dien toe tydens eerste tekens van siekte in tamatielande. Herhaal met 7 - 10 dae tussenpose en na reën. Afhangende van die grootte van die plante gebruik 500 – 2 000 l spuitmengsel/ha. Waar newelblasers gebruik word, spuit 2-3 l CungFu 538 SC in 500 l water/ha.
-----------------	---	--	---