

Ruby

Registration No. L 6780 Act 36/1947

Registrasie Nr. L6780 Wet 36/1947

A locally systemic and contact fungicide suspension concentrate with protective and curative properties for the control of late blight and protective properties for the control of early blight on potatoes and tomatoes as indicated as well as for the control of downy mildew on onions.

'n Lokaalsistemiese en kontakswamdoder suspensie konsentraat met voorkomende en kuratiewe eienskappe vir die beheer van laatroes en voorkomende eienskappe vir die beheer van vroeë roes op aartappels en tamaties soos aangedui asook vir die beheer van donsige skimmel op uie.

FUNGICIDE GROUP

X

SWAMDODER GROEP

Active ingredients:

Cymoxanil (ethyl urea) 50 g/ℓ
Chlorothalonil (guanidine) 375 g/ℓ

Aktiewe bestanddele:

Simoksanil (etielureum)
Chlorotalonil (guanidine)

Net Volume

20 ℓ

Netto Volume

Registered by:
Sipcam Southern Africa (Pty) Ltd
Co. Reg. No. 1996/009324/07
P.O. Box 516
Suider Paarl 7624
Tel. No. 021- 874 1055



Geregistreer deur:
Sipcam Southern Africa (Edms) Bpk
Mpy. Reg. Nr. 1996/009324/07
Posbus 516
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Batch Number

Lotnommer

Date manufactured

Datum vervaardig

UN NUMBER: 3082

VN NOMMER: 3082



**CAUTION
VERSIGTIG**



WARNINGS:

The following number of days should be allowed between last application and harvest of the crop:

Tomatoes	7 days
Potatoes	14 days
Onions	14 days

- May irritate eyes, nose, throat and skin.
- May cause skin sensitisation.
- Harmful when swallowed inhaled or absorbed through the skin.
- Store in a cool dry place away from food and feed.
- Keep out of reach of children, uninformed persons and animals.
- Do not use on hydroponically or container grown crops.
- Toxic to fish.

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 organisms 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, the environment or harm to man or animal 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:

- Wear rubber gloves, face shield and mask when handling product.
- Avoid prolonged contact or inhalation of spray mist and fumes.
- In case of skin contact wash thoroughly with soap and water.
- Wash contaminated clothing.
- Do not eat, drink or smoke whilst applying or preparing the spray mix, or before washing face and hands.
- Prevent spray drift onto other crops, grazing, rivers, dams and any area not under treatment.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Rinse empty container three times with a volume of water equal to at least one tenth of that of the container. Add the rinsings to the contents of the spray tank. Destroy empty container and do not use for any other purpose.
- Clean applicator after use. Dispose of wash water where it will not contaminate crops, grazing, rivers, dams etc.

WARNING AGAINST RESISTANCE:

When fungicides with the same mode of action are used repeatedly, resistant fungal strains may develop, resulting in ineffective control of diseases. Since the occurrence of resistance cannot be forecast, users are advised to keep treated crops under close observation. Development of resistance within a pathogen population can be prevented or delayed by alternating or mixing products with different modes of action. Cymoxanil is active against strains that are resistant to phenylamide fungicides.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED**General Properties:**

Ruby is a mixture of cymoxanil, a locally systemic fungicide with protective and curative properties against late blight and chlorothalonil, a residual non-systemic fungicide with protective properties against both early and late blight. Cymoxanil on its own is not sufficiently effective against early blight. Ruby is most effective when applied preventively or at the early stages of infection, before symptoms are visible on the plants. Ruby must not be applied to any crop suffering from stress as a result of drought, water logging, low temperature, insect attack, nutrient or lime deficiency or other factors reducing crop growth. Cymoxanil rapidly penetrates into plant tissue but if rain occurs within two hours after application, product performance may be adversely affected and application must be repeated.

Compatibility:

Ruby is compatible with most non-alkaline products when applied according to their manufacturer's instructions. Since the formulation of other products may change and water quality may vary from farm to farm, a physical compatibility test should always be carried out prior to application.

Mixing Instructions:

Mix the required quantity of Ruby with a small volume of water into slurry. Half fill the spray tank with clean water and whilst agitating, pour the slurry into the spray tank and then top up the tank to the required volume. Ensure thorough agitation during filling and spraying.

Application:

Ruby can be applied with conventional high volume spray equipment. All applications must be made with suitable equipment that is in good working order and correctly calibrated to give the desired coverage.

CROP AND DISEASE	DOSAGE	REMARKS
POTATOES AND TOMATOES Late blight (<i>Phytophthora infestans</i>) Early blight (<i>Alternaria solani</i>)	2,4 – 3,6 l/ha	Commence with a preventive spray programme as soon as conditions are conducive to disease development. Use the lower dose rate under conditions of low infection and repeat at 10 – 14 day intervals. Use at higher rate when infection pressure increases. Reduce spray interval to 5 - 7 days and apply at least two consecutive applications. Apply during period of active growth of plant as a high volume, full cover spray. Depending on the plant size, apply in 500 – 1500 l water / ha. DO NOT APPLY MORE THAN 4 TIMES PER SEASON.

		Read "general properties" above.
ONIONS Downy mildew (<i>Pernospora destructor</i>)	3,0 l/ha	Commence with a preventive spray programme as soon as conditions are conducive to disease development. Spray intervals should not exceed 7 days when infection pressure is high and apply at least two consecutive applications. Apply as a high volume, full cover spray. Depending on the plant size, apply in 500 – 1500 l water / ha. DO NOT APPLY MORE THAN 4 TIMES PER SEASON

WAARSKUWINGS:

Die volgende aantal dae moet toegelaat word tussen die laaste toediening en oes van die gewas:

Tamaties	7 dae
Aartappels	14 dae
Uie	14 dae

- Mag oë, neus, keel en vel irriteer.
- Kan velgevoeligheid veroorsaak.
- Skadelik deur inname, inaseming of wanneer deur die vel geabsorbeer.
- Bêre in 'n koel droë plek weg van voedsel en voer.
- Hou buite bereik van kinders, oningeligte persone en diere.
- Moenie gebruik word op gewasse wat in hidroponiese stelsels of in potte groei nie.
- Giftig vir vis.

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-organismes 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 en dier of vir 'n gebrek aan prestasie van die betrokke middel as gevolg van die versuim deur 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 geval van enige onsekerheid.

VOORSORGMATREËLS:

- Dra rubberhandskoene, gesigskerm- en masker wanneer produk hanteer word.
- Voorkom langdurige kontak en inaseming van spuitmis en dampe.
- In geval van toevallige velkontak was met seep en water.
- Was besoedelde klere.
- Moenie eet, drink of rook tydens toediening of menging nie, of voordat gesig en hande gewas is nie.
- Voorkom oorwaai van spuitnewel na ander gewasse, weiding, riviere, damme en enige ander gebied wat nie behandel word nie.
- Voorkom besoedeling van voedsel, voer, drinkwater en eetgerei.
- Spoel die leë houer driekeer uit met 'n volume water gelykstaande aan ten minste 'n tiende van die inhoud van die houer. Gooi die spoelwater by die inhoud van die spuittenk voordat die houer vernietig word. Moet leë houer vir geen ander doel gebruik nie.
- Maak toedieningsapparaat skoon na gebruik. Uitspoelwater moet nie gewasse, weiveld, riviere, damme ens. besoedel nie.

WAARSKUWING TEEN WEERSTAND:

Wanneer swamdoders met dieselfde metode van werking herhaaldelik gebruik word, kan weerstandbiedende swamrasse ontwikkel wat tot onvoldoende beheer van siektes aanleiding kan gee. Aangesien die voorkoms van weerstand nie voorspel kan word nie, word gebruikers derhalwe gemaan om behandelde gewasse noukeurig dop te hou. Ontwikkeling van weerstandbiedendheid in 'n patogeen kan voorkom of vertraag word deur produkte met verskillende meganismes van werking af te wissel of te meng. Simoksaniil is effektief teen rasse wat weerstandbiedend teen fenilamiedswamdoders is.

GEBRUIKSAANWYSINGS: GEBRUIK SLEGS SOOS AANGEDUI

Algemene Eienskappe:

Ruby is 'n mengsel van simoksaniil, 'n lokaal sistemiese swamdoder met voorkomende en kuratiewe eienskappe teen laat roes en chlorothalonil, 'n kontak nie sistemiese swamdoder met voorkomende eienskappe teen beide laat- en vroeë roes. Simoksaniil alleen is nie genoegsaam effektief teen vroeë roes nie. Die beste resultate met Ruby word verkry indien dit voorkomend toegedien word voordat siektesimptome op die plant verskyn. Ruby moet nie toegedien word op gewasse onder stremming as gevolg van droogte, versuiping, lae temperature, insekskade, voedingselement- of kalktekorte of ander faktore wat gewasontwikkeling nadelig beïnvloed nie. Simoksaniil word vinnig deur plantweefsel opgeneem. Indien reën egter binne twee ure na toediening voorkom, kan die nawerking van die produk nadelig beïnvloed word en moet die bespuiting herhaal word.

Verenigbaarheid:

Ruby is mengbaar met die meeste nie-alkaliese produkte, indien dit toegedien word volgens die vervaardigers se aanbevelings. Aangesien die formulering van ander produkte kan verander en die kwaliteit van die water ook van plaas tot plaas kan varieer, moet 'n fisiese verenigbaarheidstoets altyd uitgevoer word voordat gespuit word.

Menginstruksies:

Meng die vereiste hoeveelheid Ruby met 'n klein hoeveelheid water tot 'n dun room. Maak die tenk halfvol met skoon water en voeg die room by terwyl aanhoudend geroer word en vul dan die tenk tot die vereiste volume. Roer goed gedurende volmaak en terwyl gespuit word.

Toediening:

Ruby kan met 'n konvensionele hoëvolume spuitapparaat toegedien word. Alle toedienings moet gemaak word met geskikte toerusting wat in goeie werkende toestand en korrek gekalibreer is, ten einde die verlangde bedekking te verkry.

GEWAS EN PLAAG	DOSIS	OPMERKINGS
AARTAPPELS EN TAMATIES Laatroes (<i>Phytophthora infestans</i>) Vroeëroes (<i>Alternaria solani</i>)	2,4 – 3,6 ℓ/ha	<p>Begin met 'n voorkomende spuitprogram sodra toestande gunstig is vir siekte ontwikkeling. Gebruik die laer dosis onder toestande van lae druk met spuitintervalle van 10 – 14 dae. Gebruik hoër dosis wanneer besmettingsdruk toeneem of na 'n infeksieperiode en verkort spuitintervalle na 5 – 7 dae en dien minstens twee opeenvolgende bespuitings toe.</p> <p>Dien tydens aktiewe groeifase van plant toe as 'n hoë volume, volle dekbespuiting. Dien afhangende van plantgrootte tussen 500 – 1500 ℓ water / ha toe.</p> <p>MOET NIE MEER AS 4 MAAL PER SEISOEN TOEDIEN NIE. Lees "algemene eienskappe" hierbo.</p>
UIE Donsskimmel (<i>Pernospora destructor</i>)	3,0 ℓ/ha	<p>Begin met 'n voorkomende spuitprogram sodra toestande gunstig is vir siekte ontwikkeling. Onder hoë besmettingsdruk moet spuitintervalle nie langer as 7 dae wees nie en moet minstens twee opeenvolgende bespuitings toegedien word.</p> <p>Dien toe as 'n hoë volume, volle dekbespuiting. Afhangende van plantgrootte, dien tussen 500 – 1500 ℓ water / ha toe.</p>