



BENOMILO[®] 50 WP

Reg. no. L7839 Act/Wet 36 of/van 1947

A wettable powder systemic fungicide for the control of diseases on crops as listed.

'n Benatbare poeier sistemiese swamdoder vir die beheer van siektes in gewasse soos aangedui.

FRAC FUNGICIDE GROUP CODE

B1

FRAC SWAMDODERGROEPKODE

ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL

Benomyl (benzimidazole) 500 g/kg Benomil (benzimidasool)

NET MASS/NETTO MASSA

..... kg

REGISTRATION HOLDER/REGISTRASIEHOUER

Makhro-Agro SA (Pty) Ltd

Reg. no. 1994/001973/07

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CONTACT IN EMERGENCY/KONTAK IN NOOD

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Batch number
Date of Manufacture

Lotnommer
Datum van Vervaardiging

UN no.: 3077



WARNINGS

Withholding periods (Minimum number of days between last application and harvest):

Avocados	14 days
Brussel sprouts	3 days
Citrus	14 days
Cucurbits	3 days
Green peppers	3 days
Tomatoes	3 days

Do not use treated seed as food or fodder.

- May be irritating to the eyes, nose, throat and skin.
- Harmful if inhaled or swallowed.
- Toxic to fish.
- Store in a cool, dry place in the original sealed container away from food and feedstuffs. High temperatures and direct sunlight as well as damp wet conditions may lead to breakdown of the product and affect its effectivity adversely.
- Do not contaminate food, feed, eating utensils, grazing, rivers or dams.
- Keep out of reach of children, uninformed persons and animals.
- **Re-entry:** Do not enter treated area until spray deposit is dry.
- **Aerial application:** Notify all inhabitants in the immediate area to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate adjacent areas and water.

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 soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the pest 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, 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 dust or spray mist. Wear face shield and mask when handling the concentrate and during application.
- Avoid contact with skin, eyes and clothes. Wash with soap and cold water after accidental skin contact. If in eyes flush with clean running water for 15 minutes while eyelids are held open. If clothes are contaminated take it off and wash it.
- Do not eat, drink or smoke during mixing or application or before hands and face are washed.
- Clean applicator thoroughly and dispense of wash water where it will not contaminate other crops, grazing, rivers or dams.
- Handle treated seed with caution and mark bags in which the seed is stored clearly.

- Shake out the empty container over the spray tank until it is empty. Destroy the empty container and do not use it for any other purpose.

Resistance Warning

For resistance management, **MAKHRO BENOMILO® 50 WP** is a group code B 1 fungicide. Any fungus population may contain individuals naturally resistant to **MAKHRO BENOMILO® 50 WP** and other group code B 1 fungicides. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly. These resistant fungi may not be controlled by **MAKHRO BENOMILO® 50 WP** or any other group code B 1 fungicide.

To delay fungicide resistance:

- Avoid exclusive repeated use of fungicides from the same fungicide group code. Alternate or tank-mix with products from different fungicides group codes.
- Integrate the control methods (chemical, cultural, biological) into fungicide control programmes.
- For specific information on resistance management contact the registration holder of this product.

DIRECTIONS FOR USE

Use only as directed.

Mixing instructions

Half fill the spray tank with clean water. Pre-mix the required quantity of **MAKHRO BENOMILO® 50 WP** separately in about 10 l of water. Add to the spray tank while agitating vigorously. Fill the spray tank with water to the mark. It is important to agitate the mixture continuously while mixing and during application.

APPLICATION

Ground application

MAKHRO BENOMILO® 50 WP can be applied by means of any suitable spray apparatus, provided it is calibrated correctly and is able to distribute the spray mixture correctly and evenly the target area.

APPLICATION RATES

CROP AND TARGET	DOSAGE/100 l water (ha)	REMARKS
Avocados Fruit spot	50 g + 0,5 l narrow distillation range mineral oil/100 l water	Apply as a full cover spray. Two applications have to be done, the first at the end of November and the second application towards the end of January.
Bananas Post-harvest decay (Collar rot)	50 g/100 l water	Immerse fruit for 5 seconds in suspension after bunches have been cut. Ensure agitation of the suspension during mixing and application.
Brussels sprouts Ring spot	25 g/100 l water	Apply as a preventative spray to Brussel sprouts. Repeat every 10–14 days.

CROP AND TARGET	DOSAGE/100 ℓ water (ha)	REMARKS
Citrus Black spot		DO NOT USE MAKHRO BENOMILO® 50 WP WHERE RESISTANCE TO BENZIMIDAZOLES IS EXPERIENCED. Use only in combination or in alternation with mancozeb. It is suggested that all MAKHRO BENOMILO® 50 WP applications must be preceded by an application of mancozeb 800 g/kg at 200 g/100 ℓ water during the last week in October up to mid-November.
Early cultivars and Valencias under 20 years	25 g + 200 g mancozeb + 0,5 ℓ oil of narrow distillation range/100 ℓ water	Apply one full cover spray between 1 and 20 December.
Late cultivars vigorously growing trees younger than 20 years	50 g + 200 g mancozeb + 0,5 ℓ oil of narrow distillation range/100 ℓ water	Apply one full cover spray between 1 and 20 December.
Late cultivars older than 20 years or neglected trees with history of high susceptibility	75 g + 200 g mancozeb + 0,5 ℓ oil of narrow distillation range/100 ℓ water OR 50 g + 200 g mancozeb + 0,5 ℓ oil of narrow distillation range/100 ℓ water	Apply one full cover spray between 1 and 20 December. Apply one full cover spray during the last half of November followed by mancozeb application during the first week of January. Note: If problems are encountered to obtain complete coverage with one spray, it is recommended to use two sprays of MAKHRO BENOMILO® 50 WP at 25 g + 200 g mancozeb plus 0.5 ℓ oil of narrow distillation range /100 ℓ water during the last half of November and repeated during the first week of January.
Fruit for processing Early cultivars and Valencias under 20 years old	25 g + 200 g mancozeb + 0,5 ℓ oil of narrow distillation range/100 ℓ water	Apply one full cover spray at the beginning of December.
Valencias over 20 years old	50 g + 200 g mancozeb + 0,5 ℓ oil of narrow distillation range/100 ℓ water	Apply one full cover spray at the beginning of December.

CROP AND TARGET	DOSAGE/100 ℓ water (ha)	REMARKS
Note: THE PURPOSE OF THIS SPRAY IS TO PREVENT FRUIT DROP. IMPORTANT: As MAKHRO BENOMILO® 50 WP is expected to act curatively (where application is made after infection) it is imperative that COMPLETE coverage of the trees with the spray mixture is ensured. It is ESSENTIAL to add oil to MAKHRO BENOMILO® 50 WP as it is improving the curative properties thereof. The addition of mancozeb to the spray mixture is necessary to slow down the development of resistance to MAKHRO BENOMILO® 50 WP. Do not mix the MAKHRO BENOMILO® 50 WP/mancozeb mixture in citrus with any other remedy than oil as prescribed.		
Cucurbits Powdery mildew	Ground application: 50 g/100 ℓ or 250–500 g/ha	Depending on plant size apply 500–1,000 ℓ spray mixture per ha. Commence applications as soon as the first powdery mildew spots are noticed on the undersides of the older leaves. Repeat application every 10 days. Do not exceed 3 applications per season. Apply in a programme as for ground application in 25 ℓ water/ha.
Gladioli <i>Fusarium</i> Corm rot	200 g/100 ℓ water	Immerse corms for 1 minute in suspension. Agitate suspension during mixing and treatment.
Green Peppers Powdery mildew	50 g/100 ℓ water	Apply as a high volume preventative application Commence application 4 weeks after emergence and repeat at weekly intervals. Depending on plant size use 500–1,500 ℓ spray mixture/ha. Ensure thorough coverage of the whole plant, especially the lower leaves. Any delay in commencement of the spray programme may be the cause of poor disease control since this disease can cause rapid defoliation under favorable conditions. Do not exceed 4 applications per season.
Roses Black spot and Powdery mildew	100 g/100 ℓ water (10 g/10 ℓ water)	Apply weekly as a preventative treatment.
Sugarcane Pineapple disease of setts	50 g/100 ℓ water	Immerse setts in a cold or hot water (50°C) dip. Agitate the suspension during mixing and treatment. Maintain the volume by adding the same original concentration.

CROP AND TARGET	DOSAGE/100 ℓ water (ha)	REMARKS
Tobacco seedlings Black root rot	15 g/20 ℓ water per standard seedbed of 8,4 m ²	Apply suspension evenly over seedbed area with a watering can. Follow up immediately with 20 ℓ clean water over the same area. Repeat application two or three times, 14 days apart, until healthy roots develop.
Tomatoes Botrytis (<i>Botrytis cinerea</i>) Powdery mildew (<i>Oicliopsis tourica</i>)	50 g/100 ℓ water 50 g/100 ℓ water	Apply as a full cover spray as soon as the first symptoms of the disease are noticed on leaves, stems and fruit. Use 500 ℓ - 1,500 ℓ spray mixture depending on plant size. Repeat application every 7–10 days as long as conditions are favorable for the development of the disease. Apply as a full cover spray as soon as the first signs of the disease is seen on the older leaves. Use 500–1,500 ℓ spray mixture depending on plant size. Repeat application every 7–10 days as long as conditions are favorable for the development of the disease.
Wheat Loose smut	1,5 g/kg seed as a dry treatment or in 10 ml water as a slurry treatment	Mix thoroughly with the seed and ensure a thorough coverage.

WAARSKUWINGS

Onthoudingsperiodes (Minimum aantal dae tussen laaste toediening en oes):

Avokado's	14 dae
Groenrissies	3 dae
Rankgewasse	3 dae
Sitrus	14 dae
Tamaties	3 dae

Moet nie behandelde saad as voedsel of voer gebruik nie.

- Skadelik indien ingeasem of ingesluk word.
- Mag irriterend wees vir die oë, neus, keel en vel.
- Giftig vir visse.
- Berg in 'n koel droë plek in die oorspronklike verseëlde houer weg van voedsel en voer. Hoë temperature en direkte sonlig asook klam of nat toestande mag daartoe lei dat die produk afgebreek word sodat die effektiwiteit daarvan nadelig beïnvloed word.
- Moet nie voedsel, voer, eetgerei, weiding, damme of riviere besoedel nie.
- Hou buite bereik van kinders, oningeligte persone en diere.
- **Herbetreding:** Moet nie behandelde area betree voor spuitneerslag droog is nie.
- **Lugtoediening:** Stel alle inwoners in die onmiddellike omgewing wat bespuit gaan word in kennis en reik die nodige waarskuwings uit. Moet nie oor aanliggende gebiede of water spuit of toelaat dat spuitnewel daaroor dryf 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 grond-, klimaats- en bergingstoestande; kwaliteit van verdunningswater, verenigbaarheid met ander stowwe wat nie op die etiket aangedui is 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, 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

- Moet nie poeier of spuitnewel inasem nie
- Dra 'n gesigskerm en rubberhandskoene wanneer die konsentraat vermeng word en gedurende toediening
- Vermyn kontak met vel, oë en klere.
- Was met water en seep indien dit toevallig met die vel in aanraking kom. Was besoedelde klere daaglik.
- Moet nie eet, drink of rook tydens vermenging en bespuiting of voordat hande en gesig gewas is nie.
- Hanteer behandelde saad versigtig en merk sakke waarin saad geberg word duidelik.

- Maak toedieningsapparaat skoon na gebruik en raak van waswater ontslae waar dit nie ander gewasse, weiding, riviere of damme sal besoedel nie.
- Houers en verpakking moet heeltemal leeggemaak word voordat hulle vernietig word. Skud die houer deeglik uit in die meng- of spuitenk voordat leë houer vernietig word.
- Vernietig die leë houer en moet dit vir geen ander doel hergebruik nie.

Weerstandswaarskuwing

MAKHRO BENOMILO® 50 WP is 'n groepkode B 1 swamdoder. Enige populasie van 'n spesifieke swam mag individue insluit wat 'n natuurlike weerstand teen **MAKHRO BENOMILO® 50 WP** of enige ander groepkode B 1 swamdoder het. Indien hierdie swamdoders herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die swampopulasie oorheers. Hierdie weerstandbiedende swamme sal waarskynlik nie deur **MAKHRO BENOMILO® 50 WP** of enige ander groepkode B 1 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 tenkmengsels van produkte in verskillende swamdodergroepcodes.
- Integreer ander beheermaatreëls (chemiese, verbouing, biologies) in swamdoderprogramme.
- Vir spesifieke inligting oor weerstandsbestuur kontak die registrasiehouer van hierdie produk.

GEBRUIKSAANWYSINGS

Gebruik slegs soos aangedui.

Menginstruksies

Vul die spuitenk half met skoon water. Vermeng die benodigde hoeveelheid **MAKHRO BENOMILO® 50 WP** apart met ongeveer 10 l water. Voeg in die spuitenk terwyl geroer word. Vul die spuitenk met water terwyl gedurigdeur geroer word. Verseker dat die spuitmengsel deeglik geroer word tydens vermenging en toediening.

TOEDIENING

Grondtoediening

MAKHRO BENOMILO® 50 WP kan deur enige geskikte spuitapparaat toegedien word, mits dit korrek gekalibreer is en in staat is om die spuitmengsel korrek en eweredig oor die teikengebied te versprei.

TOEDIENINGSHOEVEELHEDE

GEWAS EN TEIKEN	DOSIS/100 l WATER (ha)	OPMERKINGS
Avokado's Vrugtevlak	50 g + 0,5 l olie van smal distillasie bestek/100 l water	Dien as 'n volle dekttoediening toe. Dien 2 bespuitings toe. Die eerste teen die einde van November gevolg deur nog 'n bespuiting teen die einde van Januarie
Brusselse spruitkool Ringvlak	25 g/100 l water	Dien as voorkomende bespuitings toe. Herhaal met tussenposes van 10–14 dae.

GEWAS EN TEIKEN	DOSIS/100 ℓ WATER (ha)	OPMERKINGS
Laat kultivars ouer as 20 jaar of verwaarloosde met 'n geskiedenis van hoë vatbaarheid	75 g + 200 g mankozeb + 0,5 ℓ olie van smal distillasie bestek/100 ℓ water OF 50 g + 200 g mancozeb + 0,5 ℓ olie van smal distillasie bestek/100 ℓ water	Dien 'n eenmalige volle dekhoediening toe tussen die 1ste en die 20 ste Desember toe. Dien as 'n volle dekhoediening gedurende die laaste helfte van November toe en volg op met 'n mankozeb bespuiting gedurende die eerste week in Januarie Nota: Indien problem ondervind word om 'n volle dekhoediening met een toediening te verkry, word aanbeveel dat twee toedienings met 25 g BENOMILO® 50 WP + 200 g mankozeb + 0.5 ℓ olie van smal bestek gemaak word gedurende die laaste helfte van November en herhaal word die eerste week van Jnauarie.
Vrugte vir verwerking Vroeë kultivars en Valencias jonger as 20 jaar Valencias ouer as 20 jaar	25 g + 200 g Mankozeb + 0,5 ℓ olie van smal distillasie bestek/100 ℓ water 50 g + 200 g Mankozeb + 0,5 ℓ olie van smal distillasie bestek/100 ℓ water	Dien 'n enkele volle dekhoediening gedurende die begin van Desember toe. Dien 'n enkele volle dekhoediening gedurende Desember toe.
Nota: DIE DOEL VAN HIERDIE BESPUITING IS OM VRUGVAL TE VERHOED. BELANGRIK: Omdat dit van BENOMILO® 50 WP verwag word om kuratief te werk waar dit toegedien word as die besmetting alreeds plaasgevind het, is dit van die uiterste belang dat 'n VOLLEDIGE bedekking van die bome met die spuitmengsel verkry word. Dit is NOODSAAKLIK om olie by die MAKHRO BENOMILO® 50 WP te voeg omdat dit die kuratiewe eienskappe daarvan verbeter. Die byvoeging van Mankozeb by die spuitmengsel is noodsaaklik om die ontwikkeling van weerstand teen MAKHRO BENOMILO® 50 WP te vertraag. Moet nie die MAKHRO BENOMILO® 50 WP / Mancozeb mengsel met enige ander middels, behalwe die olie soos voorgeskryf, vermeng nie.		

GEWAS EN TEIKEN	DOSIS/100 ℓ WATER (ha)	OPMERKINGS
Groenrissies Poeieragtige skimmel	50 g/100 ℓ water	Voorkomende program: Begin bespuiting 4 weke na opkom. Herhaal toediening weekliks. Dien toe teen 500–1,500 ℓ spuitmengsel/ha afhangende van plantgrootte. Verseker deeglike benatting van veral die onderste blare. Enige vertraging in die aanvang van die spuitprogram kan aanleiding gee tot onvoldoende siektebeher, aangesien hierdie siekte vinnige blaarverlies kan veroorsaak onder gunstige toestande.
Suikerriet Pynappelsiekte van steggies	50 g/100 ℓ water	Doop steggies in koue of warm (50°C) water. Roer die suspensie tydens toediening en vermenging. Handhaaf die volume deur dieselfde oorspronklike konsentrasie by te voeg.
Swaardlelies Knolvrot <i>Fusarium</i>	200 g/100 ℓ water	Doop knolle vir 1 minuut in suspensie. Sorg vir deeglike roering tydens behandeling
Tabaksaailinge Swartwortelvrot	15 g/20 ℓ water/standaard saadbedding van 8,4 m ²	Gebruik 'n gieter en dien suspensie egalig oor oppervlakte toe. Volg dadelik op met 'n direkte toediening van 20 ℓ skoon water oor dieselfde oppervlakte om swamdoder tot by die wortels in te was. Herhaal toediening 'n tweede keer en moontlik 'n derde keer met tussenposes van 2 weke totdat gesonde nuwe wortels ontwikkel het.
Tamaties Botrytis vrot (<i>Botrytis cinerea</i>) Poeieragtige skimmel	50 g/100 ℓ water 50 g/100 ℓ water	Programbespuiting: Begin bespuiting met eerste teken van siekte op blare, stamme of vrugte. Herhaal bespuiting elke 7–10 dae solank toestande gunstig bly vir siekte ontwikkeling. Verseker deeglike bespuiting van alle bogrondse dele. Afhangende van plantgrootte gebruik 500–1,500 ℓ spuitmengsel/ha. Programbespuiting: Begin bespuiting met eerste teken van siekte op blare, stamme of vrugte. Herhaal bespuiting elke 7–10 dae solank toestande gunstig bly vir siekte ontwikkeling. Verseker deeglike bespuiting van alle bogrondse dele. Afhangende van plantgrootte gebruik 500–1,500 ℓ spuitmengsel/ha.