

BENOMYL

Reg. No.: L 7291 Act /Wet No. 36 of/van 1947

READ ATTACHED PACKAGED LEAFLET BEFORE USE AND KEEP OUT OF REACH OF CHILDREN AND ANIMALS

FRAC FUNGICIDE GROUP CODE: B1 FRAC SWAMDODERGROEP KODE:

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

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



Hazard statements

Causes skin irritation.

May cause an allergic skin reaction.

Causes skin irritation.

Harmful if inhaled.

May cause genetic defects.

May damage fertility or the unborn child.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

Precautionary statements

Wear protective gloves/protective clothing/eye protection/face protection.
Avoid release to the environment.
Collect spillage.

7 Sunbury Office Park,
Off Douglas Saunders Drive, La Lucia Ridge,
South Africa, 4019

Contents/Inhoud
Kg

Tel: 031 514 5600

Batch No	Lot Nr.
Date of Manufacture	Datum van Vervaardiging
Expiry date (< 2 years)	(<2 jr)Vervaldatum

Co. Reg. No./Mpy. Reg. Nr.: 2009/019713/07

U.N. No. / VN Nr: 3077 Emergency number

: Griffon Poison Information Centre: 082 4468946, Poisons Information Helpline: 0861 555 777,

In case of Spillage: Spill Tech: 086 100 0366 / 083 253 6618

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WARNINGS:

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes skin irritation.
- H332 Harmful if inhaled.
- H340 May cause genetic defects.
- H360 May damage fertility or the unborn child.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

Allow the following withholding periods between last application and harvest:

Apples and pears (pre-harvest application)	14 days
Peaches	7 days
Avocado's and citrus	14 days
Cucurbits and Brussel Sprouts	3 days
Table grapes (pea size)	4-6 weeks
Tomatoes and greenpeppers	3 days
Wine grapes	14 days

- DO NOT USE TREATED SEED AS FOOD OR FEED.
- DO NOT USE ON GOLDEN DELICIOUS APPLES AND KEIFFER PEARS DURING THE BLOOM AND POST BLOOM STAGES AS IT MAY RESULT IN RUSETTING.
- BENOMYL MAY NOT BE USED AS A POST HARVEST TREATMENT FOR APPLES AND PEARS WHICH ARE TO BE EXPORTED.
- May irritate eyes, nose, throat and skin.
- Harmful if inhaled or swallowed.
- Keep out of reach of children.
- Never allow **BENOMYL** to become wet or damp during storage because this may lead to certain chemical changes which will reduce the effectiveness of **BENOMYL** as a fungicide.
- Do not store the product outside the original container. Always keep the original container tightly closed.
- Toxic to fish.
- Do not contaminate water supplies, dams or rivers.

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 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 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, 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 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:

P101 – If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 – Read carefully and follow all instructions.

P203 - Obtain, read and follow all safety instructions before use.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264+P265 - Wash hands, forearms and face thoroughly after handling. Do not touch eyes.

P271 - Use only outdoors or in a well-ventilated area.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 - IF ON SKIN: Wash with plenty of water...

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P317 - Get medical help.

P318 - IF exposed or concerned, get medical advice.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P332 + P317 - If skin irritation occurs: Get medical help.

P337 + P317 - If eye irritation persists: Get medical help.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P391 - Collect spillage.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

- Avoid excessive inhalation of dust or spray mist.
- Avoid contact with skin, eyes and clothing.
- Wear suitable face protection and hand protection during preparation of spray mixture and during application.
- Wash contaminated clothes after use.
- If product comes in contact with skin, wash thoroughly with soap and water.
- If product gets into eyes, rinse thoroughly with plenty of clean, cold water for 15-20 mins. If irritation persists, get medical advice.
- Do not eat, drink or smoke whilst applying or mixing or before washing hands, face and changing clothes.
- Prevent spray drift onto other crops, grazing, rivers, dams or areas not under treatment.
- Prevent contamination of food, feeds, drinking water and eating utensils.
- Clean the empty paper bag/cardboard container as follows: Shake all the pesticide formulation out of the bag or box into the spray or mixing tank or if it is directly dispensed onto treatment areas, over the area. Turn the bag or box inside out. Hold the bag or box over the spray or mixing tank or treatment area and rinse the bag or box with running water for thirty seconds. Shake the rinsate off into the tank. Repeat the rinsing twice. Cut the bag or box into pieces and dispose of via normal refuse disposal. Do not bury, burn or donate the bag or box to any other parties that may use it as container for food stuffs.
- Do not re-use container/bag for any other purpose.
- Dispose of empty container/bag in accordance with local regulations.

RELEVANT SUBSTANCES:

Benomyl (50 - 80) %Sodium dodecyl sulfate (1 - 5) %

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FIRST AID:

First-aid measures general : Never give anything by mouth to an unconscious person. IF

exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor if you feel unwell.

First-aid measures after skin contact : Wash with plenty of water/.... Wash contaminated clothing before

reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this

label). If skin irritation or rash occurs:

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if

pain, blinking or redness persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency

medical attention.

RESISTANCE WARNING:

For resistance management, **BENOMYL** is a group code **B1** fungicide. Any fungus population may contain individuals naturally resistant to **BENOMYL** and other group code **B1** fungicide. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly. These resistant fungi may not be controlled by **BENOMYL** or any other group code **B1** fungicide. To delay fungicide resistance:

- Avoid exclusive repeated use of fungicide from the same fungicide group code. Alternate or tank mix with products form 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.

DIRECTIONS FOR USE: use only as directed.

MIXING INSTRUCTIONS:

- 1. Fill the spray tank $\frac{1}{4}$ $\frac{1}{2}$ full with water and agitate.
- 2. To ensure fast and even distribution of the product in the spray tank, the required amount of **BENOMYL** must first be pre-mixed with 10-12 \(\ell \) of water before adding to the spray tank.
- 3. Fill the spray tank with water whilst agitating continuously.

Agitate the spray mixture constantly during mixing and spray operation.

APPLICATION RATES:

CROP & DISEASE	QUANTITY g/100 ℓ WATER (High Volume Spraying)	DETAILS OF SPRAY PROGRAMME
APPLES AND PEARS Scab and Powdery		
Mildew	35 g or 50 g	First spray at green tip. Repeat at intervals of 7-10 days. Increase dosage to 50 g for control of Mildew on very susceptible cultivars and under conditions favouring mildew development.
Overwintering stage of scab fungus	100 g	Spray once in autumn after harvest but before leaf drop.
Post harvest decay (e.g. Penicillium spp) (not for export fruit)	200 g	Dip fruit in suspension or spray fruit with suspension. Agitate suspension during application.

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APRICOTS, PEACHES & PLUMS Blossom Blight	25 g	Commence spraying when first blossoms have reached 5 % balloon stage. Repeat every 4-7 days until after flowering.
AVOCADOS		
Fruit spot	50 g + 0,5 ℓ oil of narrow distillation range.	Apply two sprays – First towards the end of November followed by another towards the end of January.
BANANAS		
Post harvest decay (Collar rot)	50 g	Dip fruit for a short time in the suspension after bunches have been cut. Agitate suspension during treatment.
BRUSSEL SPROUTS		
Ring spot	25 g	Spray preventively at intervals of 10-14 days.
CITRUS	ļ	Only annly DENOMYL in analysis of a
Black spot		Only apply BENOMYL in orchards where benzimidazole resistance is absent, and then only in combination- or alternating- with MANCOZEB. It is recommended that all BENOMYL applications must be preceded by an application of MANCOZEB at 200 g/100 ℓ water during the last week in October up to the 10 th of November.
EARLY CULTIVARS	25 g + 200 g MANCOZEB + 0,5 ℓ oil of narrow distillation range.	Apply one full cover spray between 1 st & 20 th of December.
LATE CULTIVARS Vigorously growing trees younger than 20 years	50 g + 200 g MANCOZEB + 0,5 ℓ oil of narrow distillation range.	Apply one full cover spray between 1 st and 20 th of December.
FRUIT FOR PROCESSING Early cultivars and Valencias under 20 years	25 g + 200 g MANCOZEB + 0,5 ℓ oil of narrow distillation range.	Apply one full cover spray during beginning of December.
Valencias over 20 years	50 g + 200 g MANCOZEB + 0,5 ℓ oil of narrow distillation range.	Apply one full cover spray during beginning of December

NOTE: THE PURPOSE OF BLACK SPOT CONTROL ON THESE FRUIT IS ONLY TO PREVENT FRUIT DROP.

IMPORTANT: As **BENOMYL** it is expected to act as an eradicant (where application is made after infection) it is imperative that trees receive a full cover spray.

The addition of oil to the **BENOMYL** spray mixture is **ESSENTIAL** to improve the eradicant properties of **BENOMYL**. The purpose of including MANCOZEB is to slow down the development of resistance of the black spot fungus to **BENOMYL**.

When applying the **BENOMYL** + MANCOZEB mixture to citrus do not mix with any other remedy except the oil prescribed.

CROP & DISEASE	QUANTITY g/100 It WATER (High	DETAILS OF SPRAY PROGRAMME
OUGUDDITO	Volume Spraying)	0
CUCURBITS Powdery mildew	Ground application : 50 g	Commence spray programme when the first mildew spots are noticed on the undersides of older leaves. Repeat every 10 days. In the case of mild infection apply 500 \(\ext{t} \) mixture /ha and for severe infection 1 000 \(\ext{tha} \).
	Aerial application: 500 g/ha	Apply in 25 ℓ water
GLADIOLI Fusarium Corm rot	200 g	Dip corms for one minute in suspension. Agitate suspension during treatment.
GREENPEPPERS Powdery mildew	50 g	Preventive treatment: Commence spraying 4 weeks after emergence. Repeat application at weekly intervals. Apply 500- 1500lt of spray mixture per ha depending on plant size. Ensure thorough coverage of especially the lower leaves. Any delay in the commencement of the spray program may result in inadequate control since this disease causes rapid defoliation when conditions
MANGOES Powdery mildew	15 g + 100 mℓ triforine	favour it's development. First application commences at first sign of disease usually at 50 % flowering stage followed by a second application 3-4 weeks later. A third application may be necessary where uneven flowering prevails or where a late infection occurs.
PEACHES		
Brown rot (not Rhizopus rot)	35 g	Apply two spays at an interval of 7 days, starting with the first spray applied 14 days prior to expected harvest. Ensure thorough coverage of fruit.
Freckle	35 g	First application at 100 % petal fall followed by a second application 3 weeks later.
ROSES Black spot and Powdery mildew	100 g (10 g/10 l)	Spray weekly as a preventive treatment
SUGARCANE Pineapple disease of seedpieces	50 g	BENOMYL may be used in cold or hot (50 °C) dip. Immerse seedpieces to give thorough wetting. Agitate to keep material in suspension. Maintain volume by adding the same original concentration.
TABLE AND WINE GRAPES		Commence application when shoots are 25 cm long and repeat at intervals of 10-14 days.
Powdery mildew Botrytis Rot	50 g 50 g	Apply two sprays. Commence during full flower and repeat at pea size. In the case of table grapes continue with a suitable dusting treatment. The BENOMYL treatment will suppress Botrytis-rot.
TOBACCO SEEDLINGS Black root rot	15 g per 20 ℓ water per standard seedbed of 8,4 sq metres.	Apply suspension evenly over seedbed area with watering can. Follow up with an immediate application of 20 ℓ clean water over the same area to leach the fungicide into the root zone. Repeat application a second and possibly a third time at 14 day intervals until healthy new roots develop.
TOMATOES (Botrytis cinerea)	50 g	Start spraying with the onset of the first signs of disease on leaves, stems or fruit. Repeat application every 7-10 days as long as conditions are favourable for development of disease. Ensure good coverage of all above-ground parts. Depending on plant size apply 500-l500 \(\ext{total} \) of spray mixture/ha.
Powdery mildew	50 g	Programmed spraying. Start spraying with the onset of
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(Oidiopsis taurica)		the first signs of disease on the older leaves. Repeat every 7-10 days. Ensure good coverage of especially the lower leaves. Apply 500-1500 ℓ of spray mixture/ha depending on plant size.
WHEAT Loose smut (Ustilago)	1,5 g/kg seed dry or mixed with 10 m/t water for slurry treatment	DRY – AND SLURRY TREATMENT. Mix thoroughly with seed and ensure a complete coverage.