

[Sales Panel]

MANCOLAX 700 WP

Reg. No./Nr L7382, Act No. 36 of 1947 / Wet Nr. 36 van 1947
Botswana: Reg. No. W130567, Act No. / Wet Nr. 18 of / van 1999
Namibian Reg. No./Namibiese Reg. Nr. N-AR 1877

READ THE LABEL BEFORE USE

KEEP OUT OF REACH OF CHILDREN AND ANIMALS

A wettable powder contact and systemic fungicide for the control of various diseases on crops as indicated.

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

FUNGICIDE GROUP CODES (metalaxyl) 4 (metalaksil) SWAMDODERGROEPKODES
FUNGICIDE GROUP CODES (mancozeb) M3 (mankoseb) SWAMDODERGROEPKODES

Active Ingredients:

Metalaxyl (phenyl amide)..... 100 g/kgMetalaksil (fenielamied)
Mancozeb (dithiocarbamate)..... 600 g/kgMankoseb (ditiokarbamaat)

Aktiewe Bestanddele :

Net Mass

kg

Netto Massa Net Mass



DANGER

GHS Hazard Statements

May cause an allergic skin reaction.
Suspected of causing cancer.
May damage the unborn child.
May cause damage to thyroid and nervous system.
Very toxic to aquatic life with long lasting effects.

GHS Precautionary Statements

Avoid breathing dust.
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
0861 555777 / 082 446 8946

Batch No:

Date of Manufacture:

Lotnr:

Vervaardigingsdatum:

UN No./ VN Nr. 3077 Environmentally hazardous substance, solid, n.o.s.

Pamphlet

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WARNINGS:

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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 PERIOD BETWEEN LAST APPLICATION AND HARVESTING:

TOMATOES	7 DAYS
POTATOES, YOUNGBERRIES AND BOYSENBERRIES	14 DAYS
WINE GRAPES AND PINEAPPLES	21 DAYS
TABLE GRAPES	56 DAYS

Note: 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.

Handle with care.

Store in a cool place. Store away from food and feeds.

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

Re-entry: Do not enter treated area until spray deposit has dried unless wearing protective clothing.

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

Aerial Application: Notify all inhabitants in the immediate vicinity of the 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 INSTRUCTION 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

Obtain special instruction before use.

Avoid breathing dust.

Wash thoroughly after handling.

Wear protective gloves, 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 inhaled call a poison centre.

Wash contaminated clothing after use.

Wash with soap and water after use.

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

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

Avoid drift of spray mist onto other crops, pastures, rivers, dams, bore holes and areas not under treatment.

Clean applicator after use. Dispose of wash water where it will not contaminate crops, pastures, rivers, dams and bore holes.

Shake all the pesticide formulation of the container 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 over the spray or mixing tank or treatment area and rinse 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 burn, bury or donate the bag or box to any other parties that may use it as a container for food.

RELEVANT SUBSTANCES:

Substance name (IUPAC/EC)	CAS –No.	Concentration % By weight	Classification
	EC-No.		EC1272/2008
Mancozeb	8018-01-7	60-70%	Skin sensitisation (Category 1) H317. Carcinogenicity (Category 2) H351. Reproductive toxicity (Category 1B) H360. STOT RE 2 H373. Aquatic acute 1 H400 M=10. Aquatic chronic 1 H410 M=10
	616-995-5		
Metalaxyl	57837-19-1	1-10%	Acute toxicity oral (Category 4) H302. Skin sensitisation (Category 1) H317. Aquatic chronic 3 H412.
	260-979-7		

NOTE: The other ingredients not included above, do not cause or contribute towards the correct GHS classification of **MANCOLAX 700 WP** 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 immediately.

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. Cold water may be used. Get medical attention immediately.

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.

USE RESTRICTIONS:

APPLY **MANCOLAX 700 WP** immediately following an infection period or disease warning, **before the disease can gain momentum.**

DO NOT apply to plants under drought or flood stress.

The spraying programme must commence in the early stage of the crop's growth cycle, when the plant is actively growing, to ensure protection during the critical stages of flowering and early fruit formation.

MANCOLAX 700 WP does not control Early blight on potatoes.

MANCOLAX 700 WP should not be used in tunnels, glass houses and nurseries.

MANCOLAX 700 WP is readily translocated upwards in young active growing plants. As the plants reach senescence, penetration and translocation becomes limited which will reduce the activity of **MANCOLAX 700 WP**. It is therefore important to use a different fungicide when plants reach senescence.

MANCOLAX 700 WP should not be applied more than four times per season on tomatoes, potatoes, youngberries, boysenberries and grapes.

MANCOLAX 700 WP continuous use on certain soils may lead to accelerated bio-degradation of metalaxyl resulting in reduced activity.

DO NOT ROTATE MANCOLAX 700 WP WITH ANY OTHER PHENYLAMIDE FUNGICIDE WITH A SIMILAR MODE OF ACTION AS MANCOLAX 700 WP.

Mode of Action:

MANCOLAX 700 WP consists of a systemic, protective and curative fungicide (metalaxyl), as well as a residual protective fungicide (mancozeb).

Metalaxyl can be absorbed, by roots, green stems and foliage and is translocated upwards in the plant. Absorption happens rapidly (normally within an hour), when the product is sprayed on foliage.

RESISTANCE WARNING:

For resistance management, **MANCOLAX 700 WP** is a Group codes M3 and 4 fungicide. Any fungus may contain individuals naturally resistant to **MANCOLAX 700 WP** and other Group codes M3 and 4 fungicides. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly. The resistant fungi may not be controlled by **MANCOLAX 700 WP** or any other Group codes M3 and 4 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.
- For tank mixing or alternation with products in different fungicide groups, refer to applicable individual product labels.
- Integrate other control methods (chemical, cultural, biological) into disease control programmes.

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

MANCOLAX 700 WP controls diseases caused by Oömycetes fungi such as Late blight (*Phytophthora infestans*) and Downy mildew (*Plasmopara viticola*). The activity of **MANCOLAX 700 WP** may be affected adversely in areas known to have tolerant disease strains or isolates, on crops listed in this label. The following areas have a history of disease strains or isolates showing resistance to the phenylamide group of fungicides e.g. Metalaxyl:

- Downy mildew (*Plasmopara viticola*) in grapes – various areas of the South Western Cape
- Late blight (*Phytophthora infestans*) – Gamtoos Valley, George, Sandveld & Western Cape and other parts of South Africa

Refer to the abovementioned notes to avoid or manage resistance

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

MANCOLAX 700 WP must be used in a preventative control spray programme.

COMPATIBILITY:

The compatibility of **MANCOLAX 700 WP** with other products will depend on factors such as the formulation of the remedy concerned and/or the water quality. Therefore, always test small samples of the proposed mixture for physical compatibility before mixing them in the spray tank. In the event of any uncertainty consult your AECI Plant Health Crop Adviser.

MIXING INSTRUCTIONS:

Mix the required quantity of **MANCOLAX 700 WP** with a small amount of water into a slurry. Half fill the spray tank with clean water and, whilst agitating, pour the slurry through a 50 mesh sieve into the spray tank and then top up the tank to the required volume. Ensure thorough agitation during filling and spraying. The spray mixture must be sprayed immediately after mixing. Prepared spray mixture should not be left in the spray tank for any length of time e.g. overnight.

GROUND APPLICATION:

MANCOLAX 700 WP can be applied with conventional high volume spray equipment. The spray boom, must be equipped with hollow cone nozzles, which produces medium to fine droplets. Calibrate the equipment before application to ensure that the correct dose is applied. Ensure even distribution of the spray on the target area.

AERIAL APPLICATION: (potatoes only)

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 of 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.

Stop spraying under turbulent, unstable and dry conditions during the heat of the day.

Spraying under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions (relative humidity 80 % and above) may lead to the following:

- reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage).
- damage to other sensitive crops and/or non-target areas through drifting of the suspended spray cloud away from the target field.

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.

APPLICATION TABLE:

CROPS	DOSAGE	REMARKS
GRAPES (Table and wine grapes) Downy mildew <i>(Plasmopara viticola)</i>	270 g/100 ℓ water	Refer to “USE RESTRICTIONS”. Follow a protective programme with unrelated fungicides and apply MANCOLAX 700 WP immediately after an infection period or disease warning. Repeat at 10-14 day intervals. Do not wait until the disease gains momentum before applying MANCOLAX 700 WP. Increase the spray volume progressively up to the pea-berry size stage ensuring good coverage of the crop. Apply in 250 to 1 000 ℓ water/ha in wine grapes. Apply in 500 to 1 200 ℓ water/ha in table grapes. • Do not apply later than the end of December • Do not apply after reaching the pea-berry size stage on table grapes.
PINEAPPLES Root and base or heart rot <i>(Phytophthora spp.)</i>	5.0 kg/ha	At planting: Apply MANCOLAX 700 WP as a broadcast soil drench in 2 000 –3 000 ℓ water/ha immediately after planting. Follow up 3-6 months later after planting and repeat at 3 months intervals. Established plants: Apply MANCOLAX 700 WP in 2 000 - 3 000 ℓ water/ha with 3 month intervals.
POTATOES Late blight <i>(Phytophthora infestans)</i>	2.0 kg/ha (ground application) 2.2 kg/ha (aerial application)	Refer to “USE RESTRICTIONS”. Follow a protection programme with unrelated fungicides and apply MANCOLAX 700 WP immediately after an infection period or disease warning. Repeat at 10-14 day intervals. Do not wait until the disease gains momentum before applying MANCOLAX 700 WP. Apply in 500 ℓ water/ha (ground application) and in 30 to 40 ℓ water /ha water (aerial application).
TOMATOES Late blight <i>(Phytophthora infestans)</i> Early blight <i>(Alternaria solani)</i> Leaf spot <i>(Septoria lycopersici)</i>	270 to 360 g/100 ℓ water	Refer to “USE RESTRICTIONS”. Follow a protection programme with unrelated fungicides and apply MANCOLAX 700 WP immediately after an infection period or disease warning. Repeat at 7 day intervals. Do not wait until the disease gains momentum before applying MANCOLAX 700 WP. Use 500 – 2 000 ℓ/ha spray mixture depending on the plant size. Apply the higher dosage rate under high disease infection pressure. NOTE: <i>Alternaria</i> and <i>Septoria</i> are controlled by the mancozeb component and a follow-up application with a suitable fungicide may be required if more than 13 mm rain or overhead irrigation occurs.
YOUNGBERRIES BOYSENBERRIES Downy mildew <i>(Perenospora rubi)</i>	& 270 g/100 ℓ water	Refer to “USE RESTRICTIONS”. Commence application two weeks after green tip stage as a high volume spray to the point of run-off, to ensure good coverage of the plant. Repeat every 2 weeks. Do not wait until the disease gains momentum before applying MANCOLAX 700 WP.