

Agro-CungFu

Fungicide and Bactericide

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

Registered and Distributed by:

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COMPOSITION

Copper Hydroxide 37.3 %w/w
Copper Equivalent 24.3 %w/w

TO CAUSE A HAZARD IN THE USE, STORAGE OR DISPOSAL OF THIS SUBSTANCE IS AN OFFENCE

PRECAUTIONS:

Aro-CungFu should not be applied in a spray solution having a pH of less than 6.5 as phytotoxicity may occur. Avoid inhalation of spray mist and contact with eyes.

Wear rubber gloves and face shield when preparing spray mixture. Avoid spray-drift onto adjacent crops, grazing, rivers, dams and areas not under treatment.

Do not eat, drink or smoke whilst applying or mixing or before washing hands and face. Prevent contamination of food, feed, drinking water and eating utensils.

Clean applicator after use and dispose of wash water where it will not contaminate crops, grazing, rivers and dams. Rinse empty container three times with a volume of water equal to at least one tenth of that of the container and add rinsing to the contents of the spray tank before disposing of the container. Destroy empty container and do not use for any other purpose.

SYMPTOMS OF HUMAN POISONING

Excessive exposure may cause cough, mucous production, shortness of breath, reflecting metal fume fever. If ingested in large quantities symptoms may include nausea and vomiting, abdominal pain and central nervous system depression.

FIRST AID

Inhalation: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention immediately.

Eye contact: Hold eyelids open and flush with water until no evidence of chemical remains (at least 15 – 20 minutes). Get medical attention.

Skin contact: Remove contaminated clothing and shoes. Wash with plenty of soap and water until no evidence of chemical remains (approximately 15 – 20 minutes). Get medical attention.

Ingestion: Drink promptly a large quantity of milk, egg white, gelatine solution or if these are not available, large quantities of water.

NOTE TO PHYSICIAN

There is no specific antidote. Treat symptomatically.

WARNINGS:

If the crop to be treated is intended for export, consult the relevant exporting organization 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 South African 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.

Harmful when swallowed and fatal if inhaled.

Very toxic to aquatic organisms.

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.

ALTHOUGH THIS ADJUVANT HAS BEEN EXTENSIVELY TESTED UNDER A WARRANT THAT IT WILL BE EFFICACIOUS UNDER ALL CONDITIONS BECAUSE THE ACTION AND EFFECT THEREOF MAY BE AFFECTED BY QUALITY OF DILUTION WATER, COMPATIBILITY WITH OTHER SUBSTANCES NOT INDICATED ON THE LABEL AS WELL AS BY THE METHOD, TIME AND DOES NOT ACCEPT RESPONSIBILITY FOR DAMAGE TO CROPS, VEGETATION, THE ENVIRONMENT OR HARM TO MAN OR ANIMAL OR FOR 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.

RESISTANCE WARNING:

For resistance management, **Agro-CungFu** is a group code M1 fungicide. Any fungus may contain individuals naturally resistant to **Agro-CungFu** 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 **Agro-CungFu** 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 programs.

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 an adjuvant such as Agro-wet* to enhance the performance of Agro-CungFu is strongly recommended. The compatibility of Agro-CungFu with other agrochemicals is unknown. Therefore do not apply in a mixture with other chemicals unless proved to be safe.

MIXING INSTRUCTIONS:

Shake Agro-CungFu container thoroughly before using. Measure the required volume of Agro-CungFu. 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 the mixing and application period. Do not leave 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 addition of Agro-CungFu , 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 PXXXX ZimOpt01/24 V1 or overhead irrigation was experienced within 72 hours after application.

*Agro-Wet (contains stickers and wetters) Optimum Agro

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 de- pending on disease pressure. Spray immediately after heavy rain, hail or dust storms. Ground application: Depend- ing 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 pv. 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 HAR- VESTING: MODERATELY INFECTED OR- CHARDS: Apply as a high volume appli- cation at 14 day intervals using 1 500 – 2 500 ℓ spray mixture/ha. SEVERELY INFECTED OR- CHARDS: 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 appli- cation. 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 re- quired.
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 ob- tained.
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.

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