

AUS-PHOZ 600

Systemic Fungicide

AUS-PHOZ 600 SYSTEMIC FUNGICIDE is an aqueous buffered solution of phosphorous acid for effective control of downy mildew, Phytophthora and associated root diseases.

GROUP Y FUNGICIDE

AUS-PHOZ 600 SYSTEMIC FUNGICIDE is a non-toxic, aqueous fungicide for the control of downy mildew and phytophthora species.

MODE OF ACTION

AUS-PHOZ 600 SYSTEMIC FUNGICIDE is systemically absorbed by the plant and has a two-fold mode of action:

1. AUS-PHOZ 600 SYSTEMIC FUNGICIDE activates the plants own immune defence response. Phosphorous acid has a unique form of PO_3^- which moves around the plant unreacted unlike Phosphate (PO_4) which forms ADP and ATP. Pathogen will readily accumulate PO_3^- which cannot be assimilated into these energy compounds. This accumulation weakens the pathogen enough for it to exhibit stress metabolites which is detected by the plant. The plant will then protect itself by issuing a defence response and kill the pathogen.
2. Directly inhibiting fungus growth by changing the nature of the fungal cell walls at high concentrations.

Phosphonates are highly systemic and mobile, thus translocation to new growth provides additional disease protection.

Due to its mode of action, AUS-PHOZ 600 SYSTEMIC FUNGICIDE can be used as a protective or curative treatment or both. AUS-PHOZ 600 SYSTEMIC FUNGICIDE will heighten the awareness of plants to fungal attack and help maintain a healthier, higher yielding crop.

GUARANTEED ANALYSIS

AUS-PHOZ 600 SYSTEMIC FUNGICIDE contains 600 g/L Phosphorous acid, present as mono & di potassium phosphonate

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DIRECTIONS FOR USE: AGITATE WELL BEFORE USE

CITRUS: Young or small citrus.

Disease: Phytophthora Root Rot (*P. nicotianae* var *parasitica*)
Collar Rot (*p. citrophthora*)

States: All States

Method: Foliar spray

Rate: 170 to 330 ml / 100 L to leaf wetness (by boom or similar high volume sprayer)

Two applications:

1. Late winter prior to flowering. 2. Autumn applied to mature fruit. Repeat applications annually to maintain protection of the plant. Depending on condition at time of application use a non-ionic wetting agent in conjunction with AUS-PHOZ 600.

CITRUS: Mature

Disease: Phytophthora Root Rot (*P. nicotianae* var *parasitica*)
Collar Rot (*p. citrophthora*)

States: All States

Method: Foliar spray

- **Where disease incidence is high or well established.**

Rate: 13.3 L / Ha in 3000 to 4000 L of water.
53 ml / 12 L per tree

For effective control apply as a protectant before above ground symptoms of decline and collar rot become evident, spray trees for even coverage. Do not apply under high temperatures (above 35°C) particularly if humidity is low or to moisture stressed trees.

- **Low phytophthora pressure only. Well drained soils.**

Rate: 8.3 L / Ha in 2000 – 5000 L of water.
33 ml / 12 L per tree

Removal of fruit from affected plants will enhance recovery. **WARNING:** young container grown mandarin trees may develop leaf burn and growth retardation following foliar application or soil drench of Potassium Phosphate at rates recommended for established trees.

GRAPES

Disease: Downy Mildew (*plasmopara viticola*)

States: All States

Method: Foliar spray

Rate: 2 L / Ha early season / small canopies
2.7 – 4 L / Ha Mid-late season / large canopies

It is essential that the rate of AUS-PHOZ 600 is adjusted to the vine-row volume (ie the volume of vine foliage per hectare). An application of 500 L / Ha is suggested at the start of the season, increasing to 2000 L / Ha in a vigorous crop at full canopy. Spray timing is critical. For best results, apply AUS-PHOZ 600 as a tank mix with protectant fungicides such as Mancozeb / Dithane, Copper Oxylchloride, etc, to ensure both pre- and post-infection activity. AUS-PHOZ 600 should be applied at times of high disease risk, especially between the time that conditions are conducive to Downy Mildew infection and the appearance of oil spots. Ensure spray coverage is adequate and that the appropriate rate of AUS-PHOZ 600 is applied to match vine growth, particularly from mid-season onwards, and especially where grapes are grown on rootstock.

POPPIES

Disease: Downy Mildew (*Peronospora Cristata*)

States: TAS only

Method: Foliar spray

Rate: 2 L / Ha

Commence application from 10 - 12 leaf stage up to row cover. Use in combination with mancozeb products at registered rate. Repeat 7 - 10 days later. Apply no more than 2 sprays per crop per season. Note: Crop toxicity problems may occur when application is made with low water volumes. Users should determine an appropriate water volume on a small area prior to large scale field use. Consult your field officer for assistance.

AVOCADO

Disease: Phytophthora Root Rot (*Phytophthora cinnamomi*)
(curative treatment)

States: QLD, NSW, VIC, SA, ACT & WA only

Method: Trunk Injection

Rate: Skeletal trees: 1st year 5 ml / metre of canopy diameter.
Other Situations: 2.5 mL of product diluted with 7.5 ml of water per metre.

Inject trees at spring flush maturity. Repeat treatment in February or March. Drill holes 5 mm in diameter and 25-50 mm deep with slight downward angle in the trunk. Syringes should be placed in the main trunk of the tree and spaced evenly around the circumference of the trunk. Suitable for use with an Ag-Murf gun by hydraulic tree injection. DO NOT prune back trees before the injection process as burning of new growth may occur. DO NOT inject trees in winter months. DO NOT cut back the canopy of injected trees. DO NOT add any other material other than water to AUS-PHOZ 600 for trunk injection. DO NOT inject more liquid in fewer syringes than directed.

Method: Foliar Spray

Rate: 3.3 - 4.0 L / Ha

Solution concentrate: 165 - 200 ml / 100 L

Amount per unit: Spray to run off - 7.5 to 10 L per adult tree.

1. Curative: apply every 3 weeks until disease is under control.
2. Preventative: apply every 5-6 weeks.

ORNAMENTALS

Disease: Phytophthora Root and Crown Rot

States: QLD, NSW, VIC, TAS, ACT, NT & WA only

Method: Foliar spray

Rate: Knapsack / Boom: 170 ml / 100 L
Air Blast: 330 ml / 100 L

DO NOT apply to ornamental plants under extremes of temperature. DO NOT apply when ornamental plants are dormant or stressed. Apply at 4-6 weekly intervals when conditions favour disease development. To avoid phototoxicity with some plant species it is recommended that the product be tested on a few plants of each species prior to main application.

CUCURBITS

Disease: DOWNY MILDEW (*Pseudoperonospora Cubensis*)

States: All States

Method: Foliar spray

Rate: 3 L / Ha in min 800 - 1000 L of water

Use weekly spray intervals when conditions favour disease development. To avoid phytotoxicity with some plant species it is recommended that the product be tested on a few plants of each species prior to main application.

PINEAPPLES

Disease: Phytophthora Root & Heart Rot (*P. cinnamomi*)

States: QLD only

Method: Foliar spray

Rate: 4 L / Ha in 800 to 2000 L / Ha boom spray

Apply to tops, 2 weeks before harvest of planting material.

Not to be used for any purpose or in any manner contrary to the label unless authorised under appropriate legislation.

The information above is an extract from the approved label and as such should only be used as an example, consult the product label for a full list of application and safety information.