



CAUTION

KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING



PHOSIC 600®

SYSTEMIC FUNGICIDE

ACTIVE CONSTITUENT
600 g/L PHOSPHOROUS (PHOSPHONIC) ACID
PRESENT AS MONO & DI POTASSIUM PHOSPHONATE

GROUP 33 FUNGICIDE

EFFECTIVE AGAINST
PHYTOPHTHORA DISEASES & DOWNY MILDEW
IN VARIOUS SITUATIONS AS PER DIRECTIONS FOR USE TABLE.

Batch No.	
Date of Manufacture	
Contents	APVMA Approval No.
20 L	62941/132232
200 L	62941/132232
1000 L	62941/132232

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SPRAYDRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at apvma.gov.au/spraydrift
DO NOT allow bystanders to come into contact with the spray cloud.

DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. The buffer zones in the relevant buffer zone table/s below provide guidance but may not be sufficient in all situations. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings 1 to 2 hours before sunset and persist until 1 to 2 hours after sunrise.

DO NOT apply by a boom sprayer unless the following requirements are met:
• Minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zones' section of the following table titled 'Buffer zones for vertical and boom sprayers') are observed.

DO NOT apply by a vertical sprayer unless the following requirements are met:

- spray is not directed above the target canopy
- the outside of the sprayer is turned off when turning at the end of rows and when spraying the outer row on each side of the application site
- Minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zones' section of the following table titled 'Buffer zones for vertical and boom sprayers') are observed.

Buffer zones for vertical and boom Sprayers

Application Rate	Mandatory downwind buffer zones
Up to maximum label rate	15 metres



GENERAL INSTRUCTIONS: For effective disease control a good leaf cover must be achieved before a widespread disease outbreak occurs. To avoid resistant strains of downy mildew developing, **PHOSIC 600** should be applied as close as possible to the day of infection and alternated with other systemic fungicides.

CONDITIONS CONDUCTIVE TO DOWNY MILDEW INFECTION:

1. Primary infection - Overnight conditions of:

Temperature	10°C
Rainfall	10mm
Soil wetness	24 hrs
Leaf wetness	3-4 hrs at the end of a 24 hr period

2. Secondary infection - Overnight conditions of:

Temperature	11°C
Humidity	98% for at least 4 hrs from midnight to dawn.
Leaf wetness	24 hrs

MIXING: Half fill spray vat with agitation system running, add the required amount of product.

COMPATIBILITY: Compatible with Mancozeb, Copper Oxychloride, Tilt and most common powdery mildew fungicides. Most foliage nutrients are also compatible. When using in conjunction with 'EC's' always form emulsion with water prior to adding **PHOSIC 600** Systemic Fungicide.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT: DO NOT contaminate streams, rivers or watercourses with the chemical or used containers.

FUNGICIDE RESISTANCE WARNING

GROUP 33 FUNGICIDE

For fungicide resistance management, **PHOSIC 600** is a Group 33 fungicide. Some naturally occurring individual fungi resistant to **PHOSIC 600** Systemic Fungicide and other Group 33 fungicides may exist through normal genetic variability in any fungal population.

The resistant individuals can eventually dominate the fungal population if these fungicides are used repeatedly. These resistant fungi will not be controlled by **PHOSIC 600** Systemic Fungicide, and other Group 33 fungicides, thus resulting in a reduction in efficacy and possible yield loss.

Since the occurrence of resistant fungi is difficult to detect prior to use, SJB AG~NUTRI P/L accepts no liability for any losses that may result from the failure of **PHOSIC 600** Systemic Fungicide to control resistant fungi.

STORAGE AND DISPOSAL: Store in the closed, original container in a cool well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Spillage should not be directed to drains but absorbed in sawdust and the absorbent material disposed of in a sealed container at an approved disposal site.

Triple-rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations.

DO NOT burn empty containers or product.

For refillable containers: Empty contents fully into application equipment. Close all valves and return to collection point for refill or storage.

SAFETY DIRECTIONS: May irritate the eyes and skin. Avoid contact with eyes and skin. Wash hands after use. DO NOT inhale spray mist. When preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist, washable hat, elbow-length Chemical resistant gloves, goggles and disposable face mask. If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, goggles and contaminated clothing.

FIRST AID: If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26, New Zealand 0800 764 766.

SAFETY DATA SHEET: For further information request a Safety Data Sheet (SDS) from sds@sjbagnutri.com.au.

CONDITIONS OF SALE: The Manufacturer/Distributor warrants that this product contains the active constituents as specified, and it is fit for the purpose as stated on this label when used in accordance with directions under normal conditions of use. No one, other than the officer of the Manufacturer/Distributor, is authorised to make any warranty, guarantee or direction concerning the product as the time, place, rate of application and other conditions are beyond the control of the Manufacturer/Distributor. Maximum liability is limited to the replacement of faulty product only.

EMERGENCIES: In case of an emergency contact: SJB AG~NUTRI on 0407 040 820 or Phone: 000.



DIRECTIONS FOR USE:**RESTRAINTS**

DO NOT apply PHOSIC 600 at volumes which cause excessive run off.

DO NOT apply by aircraft.

DO NOT apply if heavy rains or storms are forecast within 3 days.

DO NOT irrigate to the point of run off for at least 3 days after application.

Crop	Disease	State	Treatment Method	Rates	Comments
Almonds	Suppression of <i>Phytophthora</i> spp	All States	Foliar spray	330 mL/100L	Ensure thorough coverage of foliage and branches. Spray to the point of run off using air last sprayer or equivalent equipment. DO NOT apply more than two (2) application per season. DO NOT apply after hull split. DO NOT apply under high temperatures, particularly if humidity is low.
			Irrigation	5.2 L/ha	Ensure even mixing with irrigation water. DO NOT apply more than two (2) application per season. DO NOT apply after hull split. DO NOT apply under high temperatures, particularly if humidity is low.
Avocado	Phytophthora Root Rot	ACT, QLD, NSW, SA, VIC, WA	Inject	Trunk injection, skeletal trees: 1 st year 5 mL undiluted product per metre of canopy diameter. Other situations: 2.5 mL product diluted with 7.5 mL water per metre canopy diameter.	Inject trees at spring flush maturity – repeat treatment in February or March. Drill holes 5mm in diameter and 25mm to 50mm 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 Chemjet tree injectors, Ag-murf gun or hydraulic tree injections. DO NOT prune trees back before injections process as burning of the new growth may occur. DO NOT inject trees in winter months. DO NOT cut back the canopy of injected trees. DO NOT add anything other than water to PHOSIC 600 for trunk injection. DO NOT inject more liquid in a lesser number of syringes than directed.
			Foliar	825 mL/100L	Check the pH of the tank mix and buffer to a pH of 7.2 DO NOT apply more than 5 applications per year with a minimum retreatment interval of 21 days between applications. Apply as a foliar spray by knapsack or air-blast sprayer. Only spray trees with a good leaf canopy. DO NOT add wetters or stickers or other pesticides to the solution. Commence spraying when Autumn leaf and root flush is complete. Ensure applications are completed 6 weeks prior to flowering.
Chestnut	Suppression of Phytophthora Trunk & Root Canker (<i>phytophthora cinnamomi</i>)	NSW, VIC, SA, WA & TAS	Stem injection only	Dilute 1 to 3 with water; then inject 20 mL per meter of canopy.	DO NOT apply to trees under severe water stress or during very hot weather. Apply trunk injection up to three (3) times per year, two (2) during the production (growing) season and one (1) post harvest.
Young or small Citrus	Phytophthora, Root Rot & Collar Rot	All States	Foliar	170-300 mL/100 L To leaf wetness (by boom or similar high volume sprayer)	Two applications: 1. Later winter prior to flowering. 2. Autumn applied to mature fruit. Repeat application annually to maintain protection for the plant. Depending on condition at the time of application use a non-ionic wetting agent in conjunction with PHOSIC 600.
Mature Citrus		All States	Foliar	13.3 L/ha in 3000-4000 L water. 53 mL/12 L/tree 8.3 L/ha in 2000-5000 L water 33 mL/12 L/tree	Where Disease Incidence is High or Well Established: For effective control apply as 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, Well Drained Soil: 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 phosphonate at rates recommended for established trees.
Cucurbits	Downy Mildew	All States	Foliar	3 L/ha in minimum 800-1000 L 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 the main application.
Grapes	Downy Mildew	All States	Foliar	2 L/ha early season (small canopies) 2.7-4 L/ha Mid-late season (large canopies)	It is essential that the rate of PHOSIC 600 is adjusted for a vine-row volume (ie. the volume of vine foliage per hectare). An application volume 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 PHOSIC 600 as a tank mix with protectant fungicides such as Mancozeb/Dithane, Copper Oxychloride etc. to ensure both pre and post-infection activity. PHOSIC 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 PHOSIC 600 is applied to match vine growth, particularly from mid-season onwards, and especially where grapes are grown on root stock. DO NOT apply after E-L 33.
Macadamias	Phytophthora Root Rot (<i>phytophthora spp.</i>) Trunk (Stem) Canker (<i>phytophthora cinnamomi</i>)	NSW, QLD & WA only	Foliar spray	170-200 mL/100L	Apply to affected macadamia trees at mature leaf flush during Spring & Autumn. Apply to each leaf flush if disease persists during the production season. DO NOT apply to young leaf flush, as phosphorous acid may burn the foliage. Apply spray to the point of run-off, ensuring all leaves and branches are covered. Apply a maximum of two (2) application per crop. Apply using spray volume of 2000-3000 L/ha for mature trees (depending on tree size) OR 7.5-10 L solution per tree. Apply using air blast sprayer or equivalent equipment. DO NOT apply to trees under severe water stress during hot weather.
			Trunk application	334 mL/1 L	Apply to affected macadamia trees at root flush and 28 days after root flush. Apply a maximum of two (2) applications per crop. Apply by dilute spray to the point of run-off around the trunk to approximately 1 m above the soil level, ensuring thorough coverage/wetness around the entire trunk. Apply using a knapsack sprayer or equivalent equipment. A bark penetrant such as Pulse or similar is to be applied at the rate of 2%.
Ornamentals	Phytophthora, Root & Crown Rot	ACT, QLD, NSW, NT, TAS, VIC, WA	Foliar	170 mL/100 L boom or knapsack 330 mL/100 L air blast	Apply at 4-6 weekly 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 the main application. DO NOT apply when ornamental plants are dormant or stressed. DO NOT apply to ornamental plants under extremes of temperature.
Pineapple	Phytophthora, Root & Heart Rot	QLD, WA	Foliar	4 L/ha 1:200-1:500 water	Apply to tops, 2 weeks prior to harvest of planting material.
Poppies	Downy Mildew	TAS	Foliar	2 L/ha	Commence application from 10-12 leaf stage 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 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.
Subterranean Clover	Phytophthora Root Rot	ACT, NSW, SA, TAS, VIC, WA	Foliar	500 mL/ha approx. 200 L water/ha	Apply 8-9 days after first irrigation but before second irrigation. Apply in autumn when subterranean clover is at the cotyledon to unifoliate leaf growth stage.
Walnuts	Phytophthora Root Rot (Preventative treatment ONLY)	NSW, VIC, SA, WA & TAS	Foliar spray	333 mL/100 L	DO NOT apply more than two (2) applications per season.
			Trunk injection	5 mL diluted with 7.5 mL water per metre of canopy.	The sensitivity of some species and varieties has not been fully evaluated. It is advisable to treat a small number of trees to ascertain their reaction before treating the whole crop.
			Microjet to root zone	5 L/ha or 9.5 mL per tree.	

NOT TO BE USED FOR ANY PURPOSE OR IN ANY MANNER CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.**WITHHOLDING PERIODS:** Almonds, Chestnuts, Macadamias, Walnuts: DO NOT harvest for 28 days after application.

Avocado, Citrus, Cucurbits, Grapes, Pineapples: Not required when used as directed.

Poppies: DO NOT harvest for 6 weeks after application.

Subterranean Clover: DO NOT graze or cut for stock food for 14 days after application.