

Product Name: AGRI-FOS 600 SYSTEMIC FUNGICIDE
APVMA Approval No: 54430/113481



Label Name:	AGRI-FOS 600 SYSTEMIC FUNGICIDE
-------------	---------------------------------

Signal Headings:	CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
------------------	--

Constituent Statements:	ACTIVE CONSTITUENT: 600 g/L PHOSPHOROUS (PHOSPHONIC) ACID PRESENT AS MONO (AND) DI POTASSIUM PHOSPHITE
-------------------------	--

Mode of Action:	GROUP 33 FUNGICIDE
-----------------	--------------------

Statement of Claims:	Effective against Phytophthora diseases and Downy Mildew in various situations as per Directions for Use Table.
----------------------	---

Net Contents:	Contents: 1 L, 5 L, 20 L, 200 L, 1000 Litres.
---------------	---

Restraints:	<p>Restraints: DO NOT apply Agri-fos 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 runoff for at least 3 days after application. Do not apply at volumes which cause excessive run-off.</p> <p>SPRAY DRIFT RESTRAINTS DO NOT apply when wind speed is less than 3 or more than 20 kilometres per hour, as measured at the application site. DO NOT apply during surface temperature inversion conditions at the application site. DO NOT direct the spray above trees or vines during airblast applications. TURN OFF outward pointing nozzles at row ends and outer rows during airblast applications. Users of this product MUST make an accurate written record of the details of each spray application within 24 hours following application, and must KEEP this record for at least 2 years. The spray application details that must be recorded are: 1 date with start and finish times of application 2 location address and paddock(s) sprayed 3 full name of this product 4 amount of product used per hectare and number of hectares applied to 5 crop or</p>
-------------	--

situation and weed or pest 6 wind speed and direction during application 7 air temperature and relative humidity during application 8 nozzle brand, type, spray angle, nozzle capacity and spray system pressure measured during application 9 name and address of person applying this product. (Additional record details may be required by the state or territory where this product is used.)

MANDATORY NO-SPRAY ZONES

DO NOT apply if there are aquatic and wetland areas including aquacultural ponds, surface streams and rivers within 15 metres downwind from the application area.

Directions for Use:

This section contains file attachment.

Other Limitations:

Withholding Periods:

WITHHOLDING PERIODS:

Almonds, Chestnuts, Macadamias, Walnuts: DO NOT HARVEST FOR 28 DAYS AFTER APPLICATION.

Subterranean Clover: DO NOT GRAZE OR CUT FOR STOCKFEED FOR 14 DAYS AFTER APPLICATION.

Citrus, Cucurbits, Avocado, Grapes, Pineapples: NOT REQUIRED WHEN USED AS DIRECTED.

Poppies: DO NOT HARVEST FOR 6 WEEKS AFTER APPLICATION.

Trade Advice:

General Instructions:

This section contains file attachment.

Resistance Warning:

FUNGICIDE RESISTANCE WARNING

GROUP 33 FUNGICIDE

For fungicide resistance management, Agri-fos 600 is a Group 33 fungicide.

Some naturally occurring individual fungi resistant to Agri-fos 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 Agri-fos 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, Liquid Fertilizers Pty Ltd accepts no liability for any losses that may result from the failure of Agri-fos 600 Systemic Fungicide to control resistant fungi.

Precautions:

Protections:

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate wetlands or watercourses with this product or used containers.

Storage and Disposal:

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:

SAFETY DIRECTIONS

May irritate eyes and skin. Avoid contact with eyes and skin. 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 PVC 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. Wash hands after use.

First Aid Instructions:

FIRST AID

If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone Australia 13 11 26.

First Aid Warnings:

DIRECTIONS FOR USE

TREE AND VINE CROPS

CROP	DISEASES	STATES	TREATMENT METHOD	RATES	CRITICAL COMMENTS
ALMONDS	Suppression of Phytophthora (<i>Phytophthora</i> spp.)	All states	Foliar spray	333 mL/100 L	Ensure thorough coverage of foliage and branches. Spray to the point of run-off using air blast sprayer or equivalent equipment. DO NOT apply more than two (2) applications per season. DO NOT apply after hull split. DO NOT apply under high temperatures, particularly if humidity is low.
			Through irrigation water	5.2 L/ ha	Ensure even mixing with irrigation water. DO NOT apply more than two (2) applications per season. DO NOT apply after hull split. DO NOT apply under high temperatures, particularly if humidity is low.
AVOCADO	Phytophthora Root Rot (<i>Phytophthora cinnamomi</i>)	QLD, NSW, SA, VIC, WA, ACT	Injection	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 of canopy diameter.	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 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 injection. Do not prune trees back before 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 anything other than water to Agri-fos 600 for trunk injection. DO not inject more liquid in a lesser number of syringes than directed.
	Phytophthora Root Rot (<i>Phytophthora cinnamomi</i>)	QLD, NSW, SA, VIC, WA, ACT	Foliar Spray	825 mL/100L	Check the pH of the tank mix and buffer to a pH of 7.2 <ul style="list-style-type: none"> DO NOT apply more than 5 applications per year with a minimum re-treatment 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. Apply spray to the point of run-off, ensuring all leaves and branches are covered. Apply spray volume of 2,000-3,000 L/ha for mature trees (depending on tree size). Allow 10 days to elapse after a phosphorous acid spray before applying copper fungicides. DO NOT spray with phosphorous acid if residues of copper hydroxide are present; otherwise severe leaf defoliation may result.

CROP	DISEASES	STATES	TREATMENT METHOD	RATES	CRITICAL COMMENTS
CHESTNUT	Suppression of Phytophthora Trunk and Root Canker (<i>Phytophthora cinnamom</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 (<i>P. nicotianae</i>), and Collar Rot (<i>P. citrophthora</i>)	All states	Foliar spray	170 - 330 mL/100 L to leaf wetness (by boom or similar high volume sprayer)	<p>Two applications <i>1st Application:</i> Late winter prior to flowering. <i>2nd Application:</i> Autumn applied to mature fruit. Repeat applications annually to maintain protection for the plant. Depending on condition at time of application use a non-ionic wetting agent in conjunction with Agri-fos 600. WHERE DISEASE INCIDENCE IS HIGH OR WELL ESTABLISHED. 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.</p> <p>LOW PHYTOPHTHORA PRESSURE, WELL DRAINED SOIL Removal of fruit from affected plants will enhance recovery. WARNING: Soft skin citrus trees may develop leaf burn and growth retardation following foliar application or soil drench of Potassium Phosphonate at rates recommended for established trees.</p> <div style="border: 1px solid black; padding: 5px;"> <p>WARNING: 1. Foliar application to fruit may cause damage to fruit. 2. Soft skinned citrus trees may develop leaf burn and growth retardation following foliar application or soil drench. Before applying this product for the first time, a small test area should be sprayed and observed for at least 1 week.</p> </div>
MATURE CITRUS		All states	Foliar spray	13.3 L/ha in 3000 - 4000 L of water. 53 mL/12 L per tree. 8.3 L/ha in 2000 - 5000 L of water. 33 mL/12 L per tree	
GRAPES	Downy Mildew (<i>Plasmopara viticola</i>)	All States	Foliar spray	2 L/ha early season, small canopies 2.7 - 4 L/ha Mid-late season, large canopies	It is essential that the rate of Agri-fos 600 is adjusted to the vine-row volume (i.e. 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 Agri-fos 600 as a tank mix with protectant fungicides such as Mancozeb/Dithane, Copper Oxychloride etc, to ensure both pre- and post-infection activity. Agri-fos 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 Agri-fos 600 is applied to match vine growth, particularly from mid-season onwards and especially where grapes are grown on root stock.

CROP	DISEASES	STATES	TREATMENT METHOD	RATES	CRITICAL COMMENTS
MACADAMIAS	Phytophthora Root Rot (<i>Phytophthora spp</i>) Trunk (Stem) canker (<i>Phytophthora cinnamomi</i>)	NSW, Qld and WA only	Foliar spray	170 – 200 mL/100 L	Apply to affected macadamia trees at mature leaf flush during Spring and Autumn. Apply to each leaf flush if disease persists during the production season. DO NOT apply to young leaf flush, as phosphorus 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) applications per crop. Apply using a spray volume of 2,000 – 3,000 L/ha for mature trees (depending on tree size) OR 7.5 – 10 L of solution per tree. Apply using air blast sprayer or equivalent equipment. DO NOT apply to trees under severe water stress or 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 soil level, ensuring thorough coverage around the entire trunk. Trunk is to be wet at the time of application. 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%.
WALNUTS	Phytophthora Root Rot (Preventative treatment ONLY) (<i>Phytophthora spp.</i>)	NSW, Vic, SA, WA & Tas	Foliar spray	333 mL/100 L	DO NOT apply more than two (2) applications per season.
			Injection	5 mL diluted with 7.5 mL water per metre of canopy diameter.	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.	

NON TREE AND VINE CROPS

CROP	DISEASES	STATES	TREATMENT METHOD	RATES	CRITICAL COMMENTS
CUCURBITS	Downy Mildew (<i>Pseudoperonospora cubensis</i>)	All States	Foliar spray	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 the main application.
ORNAMENTALS	Phytophthora Root and Crown rot (<i>Phytophthora</i> spp)	Qld, NSW, Vic, WA, TAS, NT, ACT	Foliar spray	Knapsack/Boom 170 mL/ 100L Air Blast 330 mL/100 L	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.
PINEAPPLES	Phytophthora Root (<i>Phytophthora cinnamomi</i>) and Heart Rot (<i>Phytophthora parasitica</i>)	Qld, WA	Foliar spray	4 L/ha 1:200 – 1:500 water	Apply to tops, two (2) weeks prior to harvest of planting material.
POPPIES	Downey Mildew (<i>Peronospora cristata</i>)	Tas	Foliar spray	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 (<i>Phytophthora clandestina</i>)	NSW, SA Vic, WA, Tas, ACT	Foliar spray	500 mL/ha approx. 200 L water/ha	Apply 8 to 9 days after first irrigation but before second irrigation. Apply in Autumn when Subterranean Clover is at the cotyledon to unifoliate leaf growth stage.

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.

GENERAL INSTRUCTIONS

For effective disease control a good leaf cover must be achieved before a widespread disease outbreak occurs.

CONDITIONS CONDUCIVE TO DOWNY MILDEW INFECTION

(1) PRIMARY INFECTION - overnight conditions of:

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

(2) SECONDARY INFECTION - Overnight conditions of:

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

TO AVOID RESISTANT STRAINS OF DOWNY MILDEW DEVELOPING, AGRI-FOS 600 SHOULD BE APPLIED AS CLOSE AS POSSIBLE TO THE DAY OF INFECTION AND ALTERNATED WITH SYSTEMIC FUNGICIDES.

MIXING

Half fill spray vat and 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 Agri-fos 600 Systemic Fungicide.

