

CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

SPRAYPHOS® 620

SYSTEMIC FUNGICIDE

ACTIVE CONSTITUENT:-
620g/L PHOSPHOROUS (PHOSPHONIC) ACID
PRESENT AS MONO AND DI POTASSIUM PHOSPHITE

GROUP 33 FUNGICIDE

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

BATCH No.	
DATE OF MANUFACTURE	
CONTENTS	APVMA APPROVAL No.
5L - 1000L	59052/ 135832



SPRAYGRO LIQUID FERTILIZERS 76-80 GRAND TRUNKWAY,
GILLMAN, SOUTH AUSTRALIA 5013 • PO BOX 494 PORT ADELAIDE,
SA 5015 • A.B.N. 47 007 974 496 **PHONE:** (08) 8447 7266
customerservice@spraygro.com.au www.spraygro.com.au

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, Sprayphos 620 should be applied as close as possible to the day of infection and alternated with systemic fungicides. Conditions conducive to Downy Mildew infection:

- (1) PRIMARY INFECTION - overnight conditions of:
Temperature 10°C
Rainfall 10 mm
Soil Wetness 24 hrs
Leat 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
Leat Wetness 24 hrs

WITHHOLDING PERIODS:

Almonds, Chestnuts, Walnuts: Do not harvest for 28 days
Citrus, Cucurbits, Avocado, Grapes, Pineapples: Not required when used as directed.
Macadamias: Do not harvest for 14 days after application.
Subterranean Clover: Do not graze or cut for stockfeed for 14 days after application.
Popples: Do not harvest for 6 weeks after application.

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 Sprayphos 620 Systemic Fungicide.

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

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.

This container can be recycled if it is clean, dry, free of visible residues and has the drumMUSTER logo visible. Triple-rinse container for disposal. Dispose of rinseate by adding it to the spray tank. Do not dispose of undiluted chemical on site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any drumMUSTER collection or similar container management program site. The cap should not be replaced, but may be taken separately.

Application Rate	Mandatory downwind buffer zones
	Natural aquatic areas
Up to maximum label rate	15m
	Vegetation areas
	Not required

Buffer zones for vertical sprayers and boom sprayers.

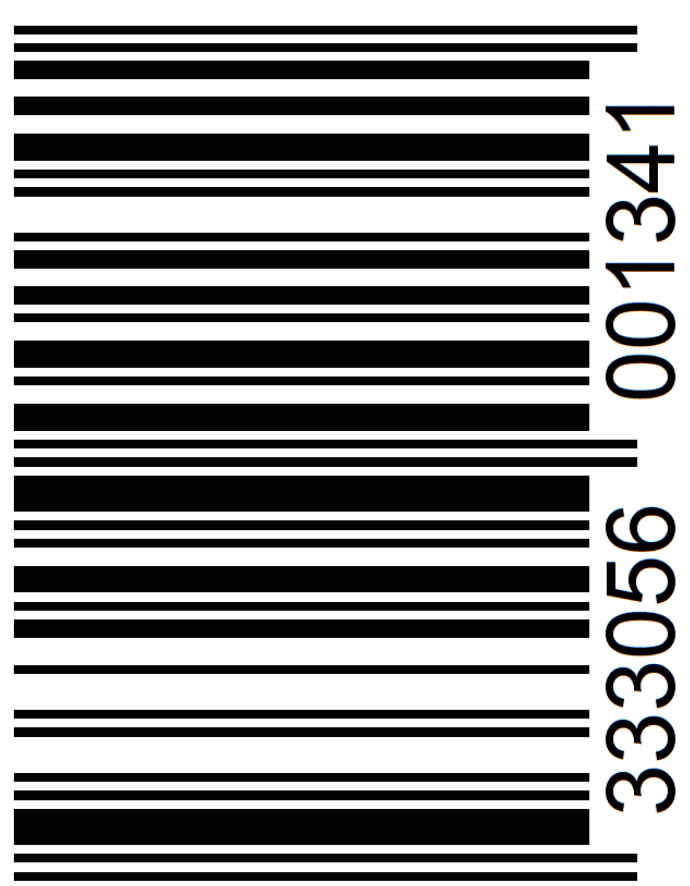
SPRAY DIFT RESTRAINTS: DO NOT allow bystanders to come into contact with the spray cloud. DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. The buffer zones in the relevant buffer zone table 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 one to two hours before sunset and persist until one to two hours after sunrise. DO NOT apply by boom sprayer unless the minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zones' section of the following table titled 'Buffer zones for boom sprayers') are observed. DO NOT apply by a vertical sprayer unless the following requirements are met:

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

RESTRAINTS: DO NOT apply Sprayphos 620 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.

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.

DISCLAIMER/CONDITIONS OF SALE: 1) Foliar Fertilizers Pty Ltd trading as Spraygro Liquid Fertilizers and its servants and agents ("Spraygro") shall be under no liability to the purchaser and or user of Spraygro products ("customer") in respect to any loss or damage including consequential loss or damage which may be suffered incurred or arise directly or indirectly in respect of such products, or the use thereof, in accordance with the Spraygro Product Profile or not. 2) The customer warrants that there has been no reliance by the customer upon any representation made by Spraygro or upon any descriptions, illustrations or specifications contained Spraygro's Product Profile or any other document produced by Spraygro. 3) The customer understands that any representation of the type set out above is on the basis that the customer independently verify the accuracy thereof. 4) the customer shall at all times indemnify and hold harmless Spraygro from and against all loss (including reasonable legal costs and expenses) or liability incurred or suffered by Spraygro arising from any proceedings or threatened proceedings against Spraygro by or involving the customer. 5) Spraygro warrants that this product consists of the ingredients specified and is reasonably fit for the purpose stated on this label when used in accordance with directions under normal conditions of use. No one other than an authorised officer of Spraygro is authorised to make any warranty, guarantee or direction concerning this product. 6) Before using please obtain a current Product Profile which is available from Spraygro or our distributor.



DIRECTIONS FOR USE TABLE - SPRAYPHOS 620

CROP	DISEASE	STATE	TREATMENT METHOD	RATES	COMMENTS
ALMONDS	SUPPRESSION OF PHYTOPHTHORA SPP	ALL STATES	FOLIAR SPRAY	322ml/100L	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.
			IRRIGATION	5L/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	QLD, NSW, SA, VIC, WA, ACT.	INJECT	Trunk injection, skeletal trees. 1st year 4.8ml undiluted product per metre of canopy diameter. Other situations 2.4ml product diluted with 7.5ml water per metre of canopy diameter.	Inject trees at spring flush maturity - repeat treatment in February or March. Drill holes 5mm in diameter and 25-50mm 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 the Chemjet tree injectors, Ag-murf gun or hydraulic tree injection. Do not prune back trees 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 Sprayphos 620 for tree injection. Do not inject more liquid in a lesser number of syringes than directed.
			FOLIAR	3-2.3.9 L/ha	Solution concentrate: 160 mL/100L – 190mL/100L. Amount per unit. Spray to run off – 7-10L per adult tree. 1. Curative: apply every 3 weeks until disease is under control. 2. Preventative: apply every 5 to 6 weeks.
CHESTNUT	SUPPRESSION OF PHYTOPHTHORA TRUNK AND ROOT CANKER (PHYTOPHTHORA CINNAMOMI)	NSW, VIC, SA, WA & TAS	STEM INJECTION	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	165-320ml/100L 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 for the plant. Depending on conditions and time of application use a non-ionic wetter in conjunction with Sprayphos 620. WHERE DISEASE INCIDENCE IS HIGHER 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 temperature (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 assist recovery. WARNING: Younger 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.
MATURE CITRUS	PHYTOPHTHORA ROOT ROT & COLLAR ROT	ALL STATES	FOLIAR	13L/ha in 3000-4000L of water 50ml/12L/tree or 7.8L/ha in 2000-5000L of water 32ml/12L/tree	
GRAPES	DOWNY MILDEW	ALL STATES	FOLIAR	1.9L/ha in early season, small canopies 2.6-3.9L/ha mid to late season, large canopies	It is essential that the rate of Sprayphos 620 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 Sprayphos 620 as a tank mix with protectant fungicides such as Mancozeb/Dithane, Copper Oxylchloride etc, to ensure both pre- and post-infection activity. Sprayphos 620 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 Sprayphos 620 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 (PHYTOPHTHORA SPP) TRUNK (STEM) CANKER (PHYTOPHTHORA CINNAMOMI)	NSW, QLD AND WA ONLY	FOLIAR SPRAY	160-190ml/100L	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	323 mL/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% v/v.
WALNUTS	PHYTOPHTHORA ROOT ROT (PREVENTATIVE TREATMENT ONLY)	NSW, VIC, SA, WA & TAS	TRUNK INJECTION	4.9 ml diluted with 7.5 ml water per metre of canopy diameter.	DO NOT apply more than two (2) applications per season. 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	4.9L/ha or 9.2ml per tree.	
			FOLIAR SPRAY	For a tree height of 8 to 10 metres, Dilute 3.2ml in 1L water. Apply 384L dilute spray per hectare or 12L diluted product per tree.	
CUCURBITS	DOWNY MILDEW	ALL STATES	FOLIAR	2.9L/ha in min 800-1000L 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 & CROWN ROT	QLD, NSW, VIC, WA, TAS, NT, ACT	FOLIAR	1.6ml/L boom or knapsack 3ml/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, stressed or under extremes of temperature.
PINEAPPLE	PHYTOPHTHORA ROOT & HEART ROT	QLD, WA	FOLIAR	3.9L/ha 1:200-1:500 water	Apply to tops 2 weeks prior to harvest of planting material.
POPPIES	DOWNY MILDEW	TAS	FOLIAR	1.9L/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	NSW, SA, VIC, TAS, WA, ACT	FOLIAR	500ml/ha approx. 200L 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.