

CAUTION

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

NUTRIFUSION

PHOSFUSION 600

ACTIVE CONSTITUENT: 600g/L PHOSPHOROUS (Phosphonic) ACID
present as the MONO and DI POTASSIUM PHOSPHONATE

GROUP **33** FUNGICIDE

Effective against Phytophthora diseases and Downy Mildew in various situations
as per Directions For Use Table.

IMPORTANT: READ THE ATTACHED BOOKLET BEFORE USING THIS PRODUCT

SHAKE WELL BEFORE USE



Distributed by:
Nutrien Ag Solutions Limited
Level 5, Building A, 26 Talavera Road,
Macquarie Park, NSW, 2113
Tel: (02) 9889 5400
Product Support Tel: 1800 44 88 92



Critical Comments

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 of 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, Agmurf 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 Phosfusion 600 Fungicide for trunk injection.

DO NOT inject more liquid in a lesser number of syringes than directed.

Solution concentrate: 165-200mL/100L

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

1. Curative: Apply every 3 weeks until disease is under control.

2. Preventative: Apply every 5-6 weeks.

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 time of application use a non-ionic wetting agent in conjunction with Phosfusion 600 Fungicide.

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 enhance recovery.

Warning: Soft skin citrus trees may develop leaf burn and growth retardation following foliar application or soil drench of Potassium Phosphite at rates recommended for established trees.

Warning:

1. Foliar application to fruit may cause damage to fruit.

2. Soft skin citrus trees may develop leaf burn and growth retardation following foliar application or soil drench.

Before applying Phosfusion 600 Fungicide for the first time a small test area should be sprayed and observed for at least 1 week.

Crop	Disease	State	Treatment Method	Rate
Cucurbits	Downy Mildew (<i>Pseudoperonospora cubensis</i>)	ALL STATES	Foliar Spray	3L/Ha in min 800-1000L of water
Grapes	Downy Mildew (<i>Plasmopara viticola</i>)			2L/Ha early season small canopies 2.7-4L/Ha mid-late season large canopies
Ornamentals	Phytophthora Root and Crown Rot (<i>Phytophthora</i> spp.)	QLD, NSW, VIC, TAS, ACT, WA, NT only		Knapsack or Boom 170mL/100L Air Blast 330mL/100L
Pineapple	Phytophthora Root Rot (<i>Phytophthora cinnamoni</i>), Heart Rot (<i>Phytophthora parasitica</i>)	QLD, WA only		4LHa 1:200- 1:500 of water
Subterranean Clover	Phytophthora Root Rot (<i>Phytophthora clandestina</i>)	NSW, ACT, VIC, TAS, SA, WA only		500mL/Ha approx. 200L of water/Ha

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

Critical Comments

Use weekly spray intervals when conditions favour disease development. To avoid phytotoxicity with some plant species, it is recommended that Phosfusion 600 Fungicide be tested on a few plants of each species prior to the main application.

It is essential that the rate of Phosfusion 600 Fungicide is adjusted to the vine-row volume (i.e. the volume of vine foliage per hectare). An application of 500L/Ha is suggested at the start of the season, increasing to 2000L/Ha in a vigorous crop at full canopy. Spray timing is critical. For best results apply Phosfusion 600 Fungicide as a tank mix with protectant fungicides such as mancozeb/dithane, Copper Oxychloride etc to ensure both pre and post infection activity. Phosfusion 600 Fungicide 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 Phosfusion 600 Fungicide is applied to match vine growth, particularly from mid season onwards, and especially where grapes are grown on root stock.

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 main application.

DO NOT apply to ornamental plants under extremes of temperature.

DO NOT apply when ornamental plants are dormant or stressed.

Apply to tops two (2) weeks prior to harvest of planting material.

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 state.

WITHHOLDING PERIODS:

SUBTERRANEAN CLOVER: DO NOT GRAZE OR CUT FOR FOOD STOCK FOR 14 DAYS AFTER APPLICATION.

CITRUS, CUCURBITS, AVOCADO, GRAPES, PINEAPPLES: NOT REQUIRED WHEN USED AS DIRECTED.

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 10mm
- Soil wetness 24 hrs
- Leaf wetness 3-4 hrs at the end of a 24 hrs 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

To avoid resistant strains of Downy Mildew developing, Phosfusion 600 Fungicide should be applied as close as possible to the day of infection and alternated with other systemic fungicides.

FUNGICIDE RESISTANCE WARNING

For fungicide resistance management Phosfusion 600 Fungicide is a Group 33 Fungicide. Some naturally occurring individual fungi resistant to Phosfusion 600 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 Phosfusion 600 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, Nutrien Ag Solutions Limited accepts no liability for any losses that may result from the failure of Phosfusion 600 Fungicide to control resistant fungi.

GROUP	33	FUNGICIDE
--------------	-----------	------------------

MIXING

Half fill spray vat with agitation system running, add the required amount of Phosfusion 600 Fungicide.

COMPATIBILITY

Compatible with Mancozeb/Dithane, Copper Oxychloride, Tilt¹, Bayleton¹ and most common Powdery Mildew fungicides. Most foliage nutrients are also compatible. When using in conjunction with "EC's" always form an emulsion with water prior to adding Phosfusion 600 Fungicide.

PROTECTION OF WILDLIFE, FISH, CRUSTACEAN & ENVIRONMENT

Phosfusion 600 Fungicide is harmful to fish. DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

STORAGE AND DISPOSAL

1L, 5L, 10L, 20L only: 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 or preferably pressure rinse containers before disposal. Add rinsing 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 bury empty containers in a local authority landfill. If no landfill is available, bury containers below 500 mm in a disposal specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

Refillable containers (1000L only): Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Empty contents fully into application equipment. Close all valves and return to point of sale for refill or storage.

MINI BULK RETURNABLE CONTAINERS

110L, 120L and 200L: Store the original sealed 110L, 120L or 200L container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT tamper with the MicroMatic valve or the security seal. DO NOT contaminate the container with water or any other foreign matter. After each use of the product ensure the MicroMatic coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of these containers have been used, please return the empty containers to the point of purchase. These containers remain the property of Nutrien Ag Solutions Limited.

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 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 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.

SAFETY DATA SHEET (SDS)

Additional information is listed in the Material Safety Data Sheet that can be obtained from the supplier.

CONDITIONS OF SALE

The use of this product is beyond the control of Nutrien Ag Solutions Limited. No warranty is expressed or implied regarding the suitability or efficiency for any purpose for which it is used by the buyer. Nutrien Ag Solutions Limited accepts no responsibility for any consequences resulting from the use of this product. Nutrien Ag Solutions Limited will not be held liable for any loss, injury or damage arising from the sale, supply or use of this product, whether through negligence or otherwise. No responsibility will be accepted for any consequences whatsoever resulting from the use of this product.

Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.
--

Distributed by: Nutrien Ag Solutions Limited
Level 5, Building A, 26 Talavera Road, Macquarie Park NSW 2113
Tel: (02) 9889 5400
Product Support Tel: 1800 44 88 92
APVMA Approval Number: 67596/56427