

**POISON**

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

**ZEEMIL<sup>®</sup>**  
**PLUS SYSTEMIC FUNGICIDE**

**ACTIVE CONSTITUENTS: 350 g/kg COPPER (Cu)  
present as COPPER OXYCHLORIDE  
150 g/kg METALAXYL**

**GROUP 4 | M1 FUNGICIDE**



**For control of downy mildew on grapevines, and  
phytophthora trunk canker and root rot of macadamias  
as per Directions For Use table**

**NET CONTENTS: 2X5KG**

**UPL Australia Pty Ltd  
Level 3, 70 Hindmarsh Square,  
Adelaide, SA, 5000  
Tel: (08) 8112 0900  
Fax: (08) 8112 0999**

**Additional statements required by Globally Harmonised System for  
classification and labelling of chemicals (GHS) and Safe Work Australia:**

May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects.  
Avoid breathing dust, fume, gas, mist, vapours or spray. Wash hands, face and all  
exposed skin thoroughly after handling. Do not eat, drink or smoke when using this  
product. Contaminated work clothing should not be allowed out of the workplace.

In an Emergency  
Dial **000**  
Police or Fire Brigade

24 Hour Emergency Response Service  
Australia **1800 033 111**  
International **+61 3 9663 2130**

APVMA Approval No: 50429/135816  
® Trademark of UPL Australia Pty Ltd



19322123002678

06/22/S

**DIRECTIONS FOR USE**

CROP	DISEASE	STATE	RATE		WHP	CRITICAL COMMENTS
			High Volume Application	Low Volume or Aircraft Application		
Grapevines	Downy Mildew ( <i>Plasmopara viticola</i> )	NSW (Riverina- MIA only), Vic, Tas, SA, WA only	150 g per 100 L water	<b>Before flowering</b> 1 to 1.5 kg per ha depending on severity of disease. <b>After flowering</b> 1.5 kg per ha.	7 days	Apply by dilute or concentrate spraying equipment. <b>Apply the same amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. This use is subject to a CropLife anti-resistance strategy.</b> Use in a protectant program commencing before disease occurs. Limit the use of Group 4 fungicides to periods when conditions favour disease development. <b>Protective Treatment</b> Commence spraying when the grapevine shoots are approximately 200 mm long and continue spraying at 7 to 21 day intervals, using the shorter interval under prolonged humid and wet conditions. (See tank mix recommendations below). <b>Post Infection (curative) Treatment</b> After flowering and when conditions favour Downy Mildew development (prolonged humid and wet conditions) apply before the first sign of oil spots or as soon as possible after the infection period. (See tank mix recommendations below). Apply further sprays as required at 7 to 21 day intervals. DO NOT apply more than 2 consecutive sprays of a Group 4 product. Resume the program of protectant sprays. Apply a maximum of 4 ZEEMIL PLUS sprays per season. DO NOT spray grapevines in Queensland when grapes are flowering. Minor phytotoxic reactions in some varieties of grapes may occur under certain conditions. <b>High Volume Spraying</b> Use a minimum of 500 L mixture per ha before flowering, increasing volume to a minimum of 1000 L per ha when vines are in full foliage.
		Qld, NSW (except Riverina- MIA only)		1.5 kg per ha		
		Vic, SA, Tas, NSW only	150 g plus 200 g of copper oxychloride per 100 L water	1.5 kg plus 2 kg of copper oxychloride per ha.		
Macadamia nuts (Queensland Nut) – Field treatment of plantations	Trunk Canker and Root Rot ( <i>Phytophthora</i> sp.)	NSW, QLD only	<b>Trunk spray and soil drench</b>		4 weeks	Before treatment clear all weed growth from under the tree. Use the highest volume for large trees. Apply to the affected trunk and limbs, and as a soil drench to approximately 1 square metre around the base of the tree. Apply at the beginning of the summer wet season and again 8 to 12 weeks later. It is essential that good management practices including proper weed control, fertilisation and irrigation (where applicable) be followed to allow satisfactory response to the disease control achieved with ZEEMIL PLUS.
			25 g per litre. Apply 1 to 5 litres of drench per tree depending on tree size.			

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

**WITHHOLDING PERIODS**

**GRAPES: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.**  
**MACADAMIA NUTS: DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION.**

**GENERAL INSTRUCTIONS**

ZEEMIL PLUS is a fungicide combining both the systemic and curative properties of metalaxyl with the protective properties of copper oxychloride. ZEEMIL PLUS should be applied as a protective fungicide before downy mildew disease occurs. However if infection has already occurred ZEEMIL PLUS should be applied as soon as possible after the infection period, preferably before oil-spots appear, to obtain optimum control of downy mildew.

**MIXING**

Pre-mix the product into a smooth, thin cream with sufficient water to ensure that all particles are thoroughly wet. Pre-mixed material should not stand for more than 1 hour.

**Knapsack sprayers:**

Pre-mix product before adding to the spray tank. Pour the premix into the partly filled tank, add remaining water and stir vigorously.

**Field sprayers:**

Pour the premix into a partly filled tank while vigorously agitating; making sure that the by-pass reaches the bottom of the spray tank. There must be sufficient agitation to keep the mixture stirred before and during spraying. Agitate vigorously from the bottom of the spray tank if material is left to stand.

**APPLICATION**

**Application in tree and vine crops**

**DILUTE SPRAYING**

Use a sprayer designed to apply high volumes of water up to the point of runoff and matched to the crop being sprayed.

Set up and operate the sprayer to achieve even coverage throughout the crop canopy. Apply sufficient water to cover the crop to the point of run-off. Avoid excessive run-off.

The required water volume may be determined by applying different test volumes, using different settings on the sprayer, from industry guidelines or expert advice.

Add the amount of product specified in the Directions for Use table for each 100 L of water. Spray to the point of run-off.

The required dilute spray volume will change and the sprayer set up and operation may also need to be changed, as the crop grows.

**CONCENTRATE SPRAYING**

Use a sprayer designed and set up for concentrate spraying (that is a sprayer which applies water volumes less than those required to reach the point of run-off) and matched to the crop being sprayed.

Set up and operate the sprayer to achieve even coverage throughout the crop canopy using your chosen water volume.

Determine an appropriate dilute spray volume (See Dilute Spraying above) for the crop canopy. This is needed to calculate the concentrate mixing rate.

The mixing rate for concentrate spraying can then be calculated in the following way:

**EXAMPLE ONLY**

- (i) Dilute spray volume as determined above: For example 1000 L/ha
- (ii) Your chosen concentrate spray volume: For example 250 L/ha
- (iii) The concentration factor in this example is: 4 X (i.e. 1000 L ÷ 250 L = 4)
- (iv) If the dilute label rate is 225 g/100 L, then the concentrate rate becomes 4 x 225, that is 900 g/100 L of concentrate spray.

The chosen spray volume, amount of product per 100 L of water, and the sprayer set up and operation may need to be changed as the crop grows.

For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

**While spraying:**

Continue agitation during spraying. Agitate vigorously from the bottom of the spray tank if material is left to stand.

**FUNGICIDE RESISTANCE WARNINGS**

<b>GROUP</b>	<b>4</b>	<b>M1</b>	<b>FUNGICIDE</b>
--------------	----------	-----------	------------------

ZEEMIL PLUS is a combination of a Phenylamide and a Multi-site Activity fungicide. For fungicide resistance management ZEEMIL PLUS is both a Group 4 and a Group M1 fungicide. Some naturally occurring individual fungi resistant to ZEEMIL PLUS and other Group 4 and/or Group M1 fungicides may exist through normal genetic variability in any fungal population. The resistant individuals can eventually dominate the fungi population if these fungicides are used repeatedly. These resistant fungi will not be controlled by ZEEMIL PLUS and other Group 4 and/or Group M1 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, UPL Australia Pty Ltd accepts no liability for any losses that may result from the failure of ZEEMIL PLUS to control resistant fungi.

**COMPATIBILITY:** ZEEMIL PLUS is compatible with Supracide 400, Tilt 250 EC and some formulations of azinphos-methyl, chlorpyrifos, carbaryl, methyl parathion, dimethoate, dicofol, wettable sulphur and zineb. It is not compatible with Ziram.

**PRECAUTION**

**Re-entry period:** DO NOT re-enter treated areas until spray has dried.

**PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT**

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

**STORAGE AND DISPOSAL**

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Single-rinse or shake remainder into spray tank. Do not dispose of undiluted chemicals on site.

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.

**SAFETY DIRECTIONS**

Harmful if swallowed. May irritate the eyes and skin. Avoid contact with eyes and skin. DO NOT inhale dust or spray mist. When opening the container and preparing spray wear elbow-length PVC gloves and disposable dust face mask covering mouth and nose. Wash hands after use. After each day's use wash gloves.

**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**

Additional information is listed in the Safety Data Sheet which is available from the supplier.

**CONDITIONS OF SALE**

UPL Australia Pty Ltd accepts responsibility for the consistent quality of the product; however since the use and application of the product is beyond control, the company accepts no responsibility whatsoever for any loss, damage or other result following the use of the product whether used in accordance with directions or not; other than those mandatorily imposed by statutes, the liability is limited to the replacement of the goods and is conditional upon a claim made in writing and, where necessary, a sufficient part of the goods being returned for proper examination by the company within thirty days of sale.

**Additional statements required by Globally Harmonised System for classification and labelling of chemicals (GHS) and Safe Work Australia:**  
May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects. Avoid breathing dust, fume, gas, mist, vapours or spray. Wash hands, face and all exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace.

In an Emergency Dial <b>000</b> Police or Fire Brigade	24 Hour Emergency Response Service Australia <b>1800 033 111</b> International <b>+61 3 9663 2130</b>
--	---

**BATCH NO**

**DOM**

APVMA Approval No: 50429/135816  
© Trademark of UPL Australia Pty Ltd

**UPL Australia Pty Ltd**  
**Level 3, 70 Hindmarsh Square,**  
**Adelaide, SA, 5000**

**Tel: (08) 8112 0900 Fax: (08) 8112 0999**

