

# CAUTION

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

CROP	DISEASE	STATE	RATE	WHP	CRITICAL COMMENTS
Cucurbits, Capsicums, Cabbage, Cauliflower, Broccoli, Brussel Sprouts	Damping Off ( <i>Pythium</i> spp. and <i>Phytophthora</i> spp.)	Qld, NSW, WA only	2.5 g per 10 litres of organic potting mix used for container grown seedlings	7 days	Thoroughly mix granules during preparation of potting mix.
			<b>Pre-transplant:</b> 40 kg per ha or 120 g per 100 m of row		Apply in 30 cm wide band along the rows and incorporate into soil.
Carrots			40 kg per ha or 120 g per 100 m of row		Apply dry granules to the soil surface in a 30 cm wide band at planting or early seeding stages. Rainfall or irrigation is required after application to incorporate into the soil.
Tomatoes			<b>Seedbeds:</b> 5 g to 10 g per 10 m <sup>2</sup>		<b>Seedbeds:</b> Broadcast granules evenly over seed beds.
			<b>Container grown seedlings:</b> 2.5 g per 10 L of potting mix <b>Pre-transplant:</b> 20 kg to 40 kg per ha or 60 g to 120 g per 100 m of row		<b>Container grown seedlings:</b> Thoroughly mix granules during preparation of potting mix. <b>Pre-transplant:</b> Apply in a 30 cm wide band and incorporate into the soil to a depth of 5 to 10 cm. Repeat after 21 days using the highest rate, apply in a 30 cm wide band and irrigate into the soil.

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

**WITHHOLDING PERIODS:**  
 AVOCADOS, CABBAGE, CAULIFLOWER, BROCCOLI, BRUSSEL SPROUTS: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.  
 MACADAMIA NUTS: DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION.  
 PEACHES: DO NOT HARVEST FOR 6 WEEKS AFTER APPLICATION.  
 POTATOES, CARROTS, TOMATOES: NOT REQUIRED WHEN USED AS DIRECTED.

**GENERAL INSTRUCTIONS**

**FUNGICIDE RESISTANCE WARNING**

Barmac Metalaxyl Fungicide Granules is a member of the Phenylamide group of fungicides. For fungicide resistance management, the product is a Group 4 fungicide. Some naturally occurring individual fungi resistant to the product and other Group 4 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 the product and other Group 4 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, Amgrow Australia Pty Ltd accepts no liability for any losses that may result from the failure of Barmac Metalaxyl Fungicide Granules to control resistant fungi.

**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. 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.

**FIRST AID**

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

**SAFETY DATA SHEET**

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

**CONDITIONS OF SALE:** The use of Barmac Metalaxyl Fungicide Granules being beyond the control of the manufacturer, no warranty expressed or implied is given by Amgrow Australia Pty Ltd regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Amgrow Australia Pty Ltd accepts with no responsibility for any consequences whatsoever resulting from the use of this product.

**GROUP 4 FUNGICIDE**

ACTIVE CONSTITUENT: 50 g/kg METALAXYL

**GROUP 4 FUNGICIDE**

For control of phytophthora root rot of avocados, phytophthora root rot and trunk canker of macadamia nuts, phytophthora trunk rot of peaches, damping off of certain vegetable crops as specified in the Directions for Use.

BARMAC

# METALAXYL

Fungicide Granules



Net Contents: 10 kg

www.barmac.com.au

**DIRECTIONS FOR USE:**

CROP	DISEASE	STATE	RATE	WHP	CRITICAL COMMENTS
Avocados Replanting infested sites	Phytophthora Root Rot	Qld, NSW, SA, WA only	100 g per square metre of soil surface	–	Apply at planting and repeat 8 to 12 weeks later. Incorporate in the soil by cultivation or watering. DO NOT use on unsterilised potting soil in avocado nurseries.
Avocados Potted nursery trees, dry soil mix	Phytophthora Root Rot		10 g/10L pot or 1 kg per cubic metre of soil	–	Potting soil should first be treated by using steam sterilisation procedures. <b>Dry Soil Mix:</b> After sterilisation and just before planting or re-potting, incorporate thoroughly into the soil. Follow up with two soil treatments 8 to 12 weeks apart. <b>Soil Treatment:</b> If soil mix treatment has not been used at planting, apply three times 8 to 12 weeks apart. Wet the surface of the soil before applying the fungicide.
Avocados Curative Treatment	Phytophthora Root Rot		100 g per square metre	7 days	For established trees showing moderate to severe symptoms of decline. Apply as a soil application at beginning of Summer wet season and again 8 to 12 weeks later until trees have recovered. Clear all weed growth from under tree canopy. To ensure that the fungicide is carried into the root zone of the tree, apply when rain is imminent or use irrigation. Severely defoliated trees and limbs damaged by exposure to full Summer sunlight should be pruned to remove damaged limbs prior to treatment and exposed limbs painted with white plastic paint to prevent sunburn. It is essential that good management practices include proper mulching, fertilisation and irrigation where required be followed to allow satisfactory response to Root Rot control by Barmac Metalaxyl Systemic Fungicide Granules. In WA for dryland crops – apply in the Autumn and again in the Spring and repeat the application at 3 monthly intervals during the Summer/Autumn period.
Avocados Protective Treatment	Phytophthora Root Rot		25 g to 50 g per square metre	7 days	For treatment of apparently healthy trees at risk from Root rot or showing signs of feeder root destruction or for trees which have recovered following application of Barmac Metalaxyl Systemic Fungicide Granules curative treatment. Use as a soil application at the beginning of Summer wet season and repeat at 3 to 6 month intervals. Use the higher rates and more frequent treatments where the risk of infection is highest. Apply in alternate years only. Ensure weed growth is removed from under the tree and treat the entire area under the tree canopy. It is essential that good management practices including proper mulching, fertilisation and irrigation be followed to allow satisfactory response to Root rot control by Barmac Metalaxyl Systemic Fungicide Granules. In WA for dryland avocado crops apply at times as indicated above for CURATIVE TREATMENT in alternate years only.
Macadamia Nuts Maintenance Treatment	Phytophthora Root Rot and Trunk Canker	Qld, NSW, WA only	25 g to 50 g per square metre	4 weeks	Clear all weed growth and heavy trash from under the tree. Apply as a soil treatment to the entire area under the tree canopy. Apply at the beginning of Summer wet season and again 8 to 12 weeks later. To ensure the fungicide is carried into the root zone of the tree, apply when rain is imminent or use irrigation. Apply further treatment of Barmac Metalaxyl Systemic Fungicide Granules as required at 6 monthly intervals until trees have recovered.
Macadamia Nuts Curative Treatment	Phytophthora Root Rot and Trunk Canker		100 g per square metre	4 weeks	Clear all weed growth and heavy trash from under the tree. Apply as a soil treatment to the entire area under the tree canopy. Apply at the beginning of Summer wet season and again 8 to 12 weeks later. To ensure the fungicide is carried into the root zone of the tree, apply when rain is imminent or use irrigation. Apply further treatment of Barmac Metalaxyl Systemic Fungicide Granules as required at 6 monthly intervals until trees have recovered.
Peaches 5 years or older	Phytophthora Trunk Rot ( <i>P. cactorum</i> ) Phytophthora Trunk Rot ( <i>P. cinnamomi</i> )	Vic, SA, WA only Qld only	100 g per tree	6 weeks	Apply the granules in the autumn after harvesting is completed and again in the spring when trees have a good leaf cover. Apply the granules evenly in a shallow (5 cm) gutter dug around the base of the tree trunk. To ensure movement into the soil, apply approximately 20 litres of water per tree or apply an appropriate amount of water with overhead irrigation within 24 hours of applying the granules.
Potatoes	Pink Rot ( <i>Phytophthora erythroseptica</i> )	Vic, Tas, WA only	20 kg per ha	–	For use in fields with a previous history of the disease or where conditions favour the disease. Granules should be applied at the time of sowing, directly into the seed furrows as a narrow band treatment close to the seedpiece. Follow up with a program of ZeeMil MZB 720 WP foliar application commencing 4 to 6 weeks after planting.



BATCH NO:

DATE OF MANUFACTURE:

**BARMAC**

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