

RELEVANT LABEL PARTICULARS (RLPs)

PEARL SYSTEMIC FUNGICIDE

200 g/L PENCONAZOLE

Select appropriate:

- New Product (include all applicable RLPs) OR
 Variation (highlight instructions that are being varied). Approval no. of label being varied:.....



**RLP
Approved**

Signal heading	CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Product name	PEARL™ Systemic Fungicide
Active constituent/s	200 g/L PENCONAZOLE
Mode of action	GROUP 3 FUNGICIDE
Statement of claims	Controls Black Spot (Apple Scab and Pear Scab) of Apples and Pears, Powdery Mildew of Apples and Grapes.
Restricted chemical	n/a
Net contents	1 L, 5 L, 10 L
Name & address	Distributed by: E.E. Muirs and Sons, 18 Raymond Road, Laverton North VIC 3026, Australia 03 99312200
Directions for Use	DIRECTIONS FOR USE
Restrictions	DO NOT apply using spraying equipment carried on the back of the user

Directions for Use	Crop	Disease	Rate	Critical Comments
	Tree and Vine Crops			
	Apples	Suppression of primary infection and control of secondary infections of powdery mildew (<i>Podosphaera leucotricha</i>)	Dilute Spraying 10 or 12.5 ml/100L water Concentrate spraying: Refer to the Application section	<p>Apply by dilute or concentrate spraying equipment. Apply the same amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.</p> <p>Apply 10 days after spurburst at approximately the pink stage (late September/early October). Repeat 4 to 5 times at 10 to 14 day intervals. Susceptible varieties may need further sprays. Apply no more than 8 applications of PEARL Systemic Fungicide per season.</p> <p>Dilute Spraying: Use the higher rate for spraying of trees heavily infected with Powdery Mildew or under conditions most favourable for the disease.</p> <p>Concentrate Spraying: Use rates towards the higher end of the range on heavily infected trees and when conditions are favourable to mildew development.</p> <p>Care should be taken at the ends of rows, on headlands or at other places where a tree might receive more than the normal dose of fungicide as rates higher than recommended may cause damage to fruit and reduce fruit size.</p>

	<p>Apples, Pears</p>	<p>Protective and curative control of Apple Scab or Black Spot (<i>Venturia inaequalis</i>) and Pear Scab (<i>Venturia pirina</i>)</p>	<p>Dilute spraying 12.5 mL/100 L water + full recommended rate (tank mix) of a registered protectant scab fungicide</p> <p>Concentrate spraying: Refer to the Application section</p>	<p>Apply by dilute or concentrate spraying equipment. Apply the same amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.</p> <p>This use is subject to a CropLife anti-resistance strategy.</p> <p>To prevent or delay onset of resistance to Group 3 fungicides, DO NOT apply more than four Group 3 sprays alone per season.</p> <p>If more sprays are required, apply a tank mix of a Group 3 with a Group 9 or suitable product from Groups M or M1 to M9.</p> <p>DO NOT apply more than 5 sprays per season of products containing a combination of a Group 3 and a Group 9 fungicide.</p> <p>Commence spraying at green tip with an approved fungicide, then apply a tank mixture of PEARL Systemic Fungicide + registered protectant scab fungicide at spurburst. Repeat applications at 7 to 10 day intervals until the end of October, then apply at 14 to 21 day intervals as required, depending on weather conditions and disease incidence. When conditions are likely to have produced an infection period for Apple or Pear Scab or when spore warning service indicates that an infection period has occurred, apply the tank mixture of PEARL</p>
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	<p>Grapes</p>	<p>Powdery Mildew <i>(Uncinula necator)</i></p>	<p>Dilute spraying: 6.25 mL /100 L water</p> <p>Concentrate spraying: Refer to the Application section</p> <p>Apply by dilute or concentrate spraying equipment. Apply the same amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.</p> <p>This use is subject to a CropLife anti-resistance strategy.</p> <p>Apply before the development of disease when shoots are approximately 20 cm long.</p> <p>Apply 2 further treatments at 14 to 21 day intervals. DO NOT apply more than two consecutive sprays of Pearl Systemic Fungicide.</p> <p>DO NOT apply more than three applications of PEARL Systemic Fungicide per season.</p> <p>DO NOT use Pearl or other Group 3 fungicides curatively. Use a registered fungicide with a different mode of action if further applications are required,</p>
<p>"Not to be used..."</p>	<p>NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.</p>		

Other limitations	n/a
Withholding Period/s	Apples, Pears, Grapes: DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION.
Trade Advice	n/a
General instructions	<p>Mixing</p> <p>Add the required amount of product directly to the spray tank and mix well.</p> <p>Application</p> <p>Apply by high volume (dilute) sprayer or by concentrate sprayer.</p> <p>Application in tree and vine crops.</p> <p>Dilute spraying: Use a sprayer designed to apply high volumes of water up to 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. 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 change and the sprayer set up and operation may also need to be changed, as the crop grows.</p> <p>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:</p> <p>Example only</p> <ol style="list-style-type: none"> 1) Dilute spray volume as determined above: for example 2000 L/ha 2) Your chosen concentrate spray volume: for example 500 L/ha 3) The concentration factor in this example is: 4 x (i.e., $2000 \text{ L} \div 500 \text{ L} = 4$) 4) If the dilute label rate is 12.5mL/100 L, then the concentrate rate becomes 4 x 12.5, that is 50mL/100L of concentrate spray. <p>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</p>

	<p>consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.</p> <p>Compatibility</p> <p>PEARL Systemic Fungicide can be mixed with Supracide* 400 EC, Insegar*, Delfin*, Ridomil* Gold Plus, Scala*, Sumisclex*, Thiovit* Jet and other wettable sulphur formulations and some formulations of: diazinon, azinphos methyl, parathion, endosulfan, carbaryl, chlorpyrifos, propargite, vamidathion, clofentezine, calcium chloride and calcium nitrate and the protectant fungicides: Bravo*, copper oxychloride, mancozeb, thiram, dithianon, metiram and ziram.</p> <p>SAFETY DATA SHEET</p> <p>If additional hazard information is required refer to the Safety Data Sheet. For a copy phone 1800 777 068 or visit our website at www.grochem.co.nz</p> <p>CONDITIONS OF SALE</p> <p>As no control can be exercised over the manner in which or the conditions under which this product is used, all conditions and warranties expressed or implied, other than those required by statute are excluded. No responsibility will be accepted for any damage or injury whatsoever arising from the storage, handling, application or use of this product.</p>				
Resistance warning	<table border="1" data-bbox="874 1070 1369 1133"> <tr> <td data-bbox="874 1070 1054 1133">Fungicide Resistance Warning</td> <td data-bbox="1054 1070 1129 1133">GROUP</td> <td data-bbox="1129 1070 1209 1133">3</td> <td data-bbox="1209 1070 1369 1133">FUNGICIDE</td> </tr> </table> <p>PEARL Systemic Fungicide is a member of the DMI group of fungicides. For fungicide resistance management PEARL Systemic Fungicide is a Group 3 fungicide. Some naturally occurring individual fungi resistant to PEARL Systemic Fungicide and other Group 3 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 PEARL Systemic Fungicide or other Group 3 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, Agrinova NZ Ltd accepts no liability for any losses that may result from the failure of PEARL Systemic Fungicide to control resistant fungi.</p>	Fungicide Resistance Warning	GROUP	3	FUNGICIDE
Fungicide Resistance Warning	GROUP	3	FUNGICIDE		
Precautions	<p>Re-entry Period</p> <p>Do not enter treated areas until the spray has dried, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.</p> <p>PRECAUTION</p> <p>Do not apply using spraying equipment carried on the back of the user.</p>				
Protections	<p>PROTECTION OF LIVESTOCK</p>				

	<p>Low hazard to bees. May be applied to plants at any time.</p> <p>PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENIRONMENT</p> <p>Medium toxicity to fish and aquatic invertebrates. DO NOT contaminate streams, rivers or waterways with the product or used containers.</p>
Storage & disposal	<p>Store in closed original container in a dry, well ventilated place as cool as possible out of direct sunlight.</p> <p>Triple or preferably pressure 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 for appropriate disposal 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.</p>
Safety Directions	<p>Harmful if inhaled or swallowed.</p> <p>May irritate the nose and throat and skin. Will irritate the eyes.</p> <p>Avoid contact with eyes and skin. Do not inhale spray mist.</p> <p>When opening the container, preparing the product for use and using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length chemical-resistant gloves, goggles, and a disposable mist face mask covering mouth and nose. In addition, if applying by airblast equipment and low pressure hand wand, wear cotton overalls, over normal clothing, buttoned to the neck and wrist, and a washable hat.</p> <p>If product in eyes, wash it out immediately with water.</p> <p>Wash hands after use. After each day's use wash gloves, goggles, and contaminated clothing.</p>
First Aid	<p>If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126, New Zealand 0800 764 766. If swallowed, do NOT induce vomiting. Give a glass of water. If skin contact occurs, remove contaminated clothing and wash skin thoroughly. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.</p>

The following is for APVMA use only:

APVMA approval no.	APVMA No: 69798/61754
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