

POISON



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

**SHIRLAN[®]
FUNGICIDE**

ACTIVE CONSTITUENT: 500 g/L FLUAZINAM

GROUP	Y	FUNGICIDE
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**For the control of club root of broccoli,
brussels sprouts, cabbage, cauliflower and kohlrabi;
the pre-bud burst suppression of phomopsis cane
and leaf blight in grape vines and the control of white root rot in apples.**

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USE

CONTENTS: 1 & 5 LITRES

Crop Care Australasia Pty Ltd, 77 Tingira Street, Pinkenba Qld 4008

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilizers. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank mix. 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 the containers in a local authority landfill. If no landfill is available bury the containers below 500 mm disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

SAFETY DIRECTIONS

Harmful if swallowed. Poisonous if inhaled. Will irritate the eyes and skin. Avoid contact with eyes and skin. Repeated exposure may cause allergic disorders. Do not inhale vapour. When opening the container and preparing product for use, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves, goggles and a disposable fume mask. When using the prepared product, wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow length PVC gloves. 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 131 126. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

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

Conditions of sale

Crop Care Australasia Pty Ltd will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply of these goods other than responsibility for the merchantable quality of the goods and such responsibilities mandatorily imposed by Statutes applicable to the sale or supply of these goods. To the extent allowed by such Statutes the liability of Crop Care Australasia Pty Ltd is limited to the replacement of the goods or (at the option of Crop Care Australasia Pty Ltd) the refund of the price paid and is conditional upon a claim being made in writing and where possible sufficient part of the goods to enable proper examination being returned to Crop Care Australasia Pty Ltd within thirty days of delivery.

UN NO.: 3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (CONTAINS FLUAZINAM) MARINE POLLUTANT
In a Transport Emergency Dial 000 Police or Fire Brigade	SPECIALIST ADVICE IN EMERGENCY ONLY 1800 033 498 ALL HOURS - AUSTRALIA WIDE
PG III	HAZCHEM 2X



'Shirlan' is a Registered Trademark of Syngenta Ltd.



Crop Care Australasia Pty Ltd
ACN 061 362 347
77 Tingira Street,
PINKENBA Qld 4008

Bar code, label code
and drumMUSTER logo
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NRA Approval Number: 45279/0703

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DIRECTIONS FOR USE

Crop	Disease	States	Rate	Critical Comments		
Broccoli Brussels sprouts Cabbage Cauliflower Kohlrabi	Club root (<i>Plasmodiophora brassicae</i>)	All States	Seedling drench 25-50 mL per 1000 plants	Use the high rate in fields where severe club root has occurred previously. According to the dilution table shown below, apply the required amount of the diluted mixture immediately after transplanting around the base of each plant to ensure thorough wetting of the collar region.		
				Rate of Shirlan per 1000 plants	Amount of Shirlan per 100L of water	Volume of mixture to apply per 1000 plants
				25 mL 25 mL 50 mL 50 mL	25 mL 12.5 mL 50 mL 25 mL	100 L 200 L 100 L 200 L
				<p>OR Pre transplant soil incorporated band 3L/ha</p> <p>This method of application is most suitable for use in soils with low infiltration rates. Apply in a minimum band width of 23cm along the planting row and incorporate to a soil depth of 15-20cm with a precision incorporator in the same operation. Apply in a water volume of at least 500L/ha.</p> <p>Disease control depends on protection of the taproot from infection. Note: This product may delay the start of harvest by up to 8 days and shorten the harvest period, without adverse effects on final yield.</p>		
Grape vines	Phomopsis Cane and Leaf Blight (<i>Phomopsis viticola</i>)		<p>Dilute Application 100 mL / 100 L</p> <p>Apply one application at 1 to 4 weeks prior to budburst after pruning to dormant spurs and/or canes. Mixing with 2% summer or winter oil may assist in coverage and penetration of the spray onto diseased wood. Adjust spray application equipment to thoroughly wet all one year old wood on the vines after pruning. Apply by dilute application spray equipment that only directs spray solution to the dormant canes and spurs on the cordons. Use of a fixed wand or short boom with single or multiple nozzles directing a narrow band of spray solution onto dormant buds, spurs and canes along the cordon wire(s) is recommended. When using orchard sprayers, ensure that only nozzles directing spray solution onto the dormant canes and spurs along the cordon wire(s) are operational. Follow the pre-budburst application of Shirlan Fungicide with post-budburst applications (where required) of other products (e.g. dithianon or mancozeb) registered for the control of phomopsis in grapevines. Application of these products must be in accordance with the directions stated on the registered label of the product used.</p>			

Crop	Disease	States	Rate	Critical Comments
Apples	White Root Rot (<i>Rosellinia necatrix</i>)	Qld, NSW, WA & Tas only	50 mL/100L	<p>Pre-Planting : Prepare planting holes with a 30cm diameter to a depth of about 1 m. Remove all larger roots from the excavated soil. Apply 30L of a prepared suspension of Shirlan and water per tree by mixing with the planting hole soil in the planting operation. Apply in 3 stages, adding 10L of the prepared suspension to each third of the excavated soil. Form a barrier of treated soil around each tree to contain the Shirlan suspension and prevent other soil from contaminating the area around the tree.</p> <p>Established Trees : During following winter dormant periods each year, retreat with 30L/tree of Shirlan water suspension by using a soil injector, comprised of a hollow metal rod approximately 2.5 metres in length attached to a pressure pump. Maintain liquid pressure at 10-15 psi during application. Insert the rod into the soil at 8-12 points around the base of the tree to a depth of 1-2 metres, removing the rod each time when the suspension appears on the surface.</p>

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

WITHHOLDING PERIOD:

HARVEST: NOT REQUIRED WHEN USED AS DIRECTED.

TREATED CROPS ARE NOT TO BE GRAZED OR FED TO ANIMALS.

DO NOT GRAZE VINEYARDS AFTER APPLICATION.

GENERAL INSTRUCTIONS

Fungicide Resistance Warning

GROUP	Y	FUNGICIDE
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For fungicide resistance management the product is a Group Y fungicide. Some naturally occurring individual fungi resistant to the product and other Group Y 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 this product or other Group Y 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, Crop Care Australasia Pty Ltd accepts no liability for any losses that may result from the failure of this product to control resistant fungi.

Mixing

Add the required amount of product to the partly-filled spray tank with the agitator in operation. Fill the tank with water, and continue agitation during spraying and after a stoppage.

Application:

Dilute Spraying - Grapevines only

- 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 will change and the sprayer set up and operation may also need to be changed, as the crop grows.

RE-ENTRY PERIODS

Brassicas:

DO NOT allow entry into treated areas until the spray has dried. When prior entry is necessary, wear impervious footwear and if handling the treated crop wear cotton overalls buttoned to the neck and wrist, a washable hat and elbow length PVC gloves. Clothing must be laundered after each day's use.

Grapevines:

Persons re-entering treated vines for up to 32 days following application and who will be handling treated vines must wear cotton overalls buttoned to the neck and wrist, a washable hat and elbow length PVC gloves. Clothing must be laundered after each day's use.

Apples:

DO NOT allow entry into treated areas until the solution has dried on the soil surface. If prior entry is necessary wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), chemical resistant gloves and impervious boots. Clothing must be laundered after each day's use.

PROTECTION OF LIVESTOCK

Do NOT graze or feed treated crops to animals. Do NOT graze vineyards after application.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

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

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions, or from spaying equipment that may cause drift onto nearby plants/crops, cropping lands or pastures.

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