

Product Name: PYRIGRAN INSECTICIDE
APVMA Approval No: 70410/134097



Label Name:	PYRIGRAN INSECTICIDE
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Signal Headings:	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
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Constituent Statements:	750 g/kg CHLORPYRIFOS (an anticholinesterase compound)
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Mode of Action:	GROUP 1B INSECTICIDE
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Statement of Claims:	For control of insect pests in fruit and other situations as specified in the Directions for Use THIS PRODUCT IS TOO HAZARDOUS FOR USE BY HOUSEHOLDERS DO NOT USE THIS PRODUCT IN OR AROUND THE HOME
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Net Contents:	5kg (9x333g) 3kg (30x333g) 10kg (15x333g) (3x333g) 1kg (6x333g) 2kg 10kg 1kg 2kg 333g 3kg 5kg
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Restrains:	RESTRAINTS
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DO NOT apply if bees are actively foraging.
 DO NOT use in homes, residential areas, public areas, or in publicly accessible commercial areas.
 DO NOT re-apply to the same crop within 7 days (unless specifically recommended in the directions for use.
 DO NOT apply if heavy rains or storms that are likely to cause surface runoff are forecast in the immediate area within 2 days of application.

DO NOT apply when irrigating, or to waterlogged soil; or while water remains on the surface or in furrows, unless tail water is captured on farm.

DO NOT allow contaminated runoff water from treated paddocks to enter adjacent areas or water bodies. Runoff contaminated by irrigation events (tailwater and a 25 mm rainstorm should be captured on farm for 2 days after application.

Spray drift restraints
 Specific definitions for terms used in this section of the label can be found at apvma.gov.au/spraydrift.

DO NOT allow bystanders to come into contact with the spray cloud.
 DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.
 DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.
 DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings 1 to 2 hours before sunset and persist until 1 to 2 hours after sunrise.

Directions for Use:	This section contains file attachment.
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Other Limitations:	
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Withholding Periods:	<p>WITHHOLDING PERIODS: Apples, Bananas, Citrus, Grapevines, Kiwifruit, Passionfruit, Pears, Stone Fruit: DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION Avocadoes: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION</p>
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Trade Advice:	
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General Instructions:	<p>GENERAL INSTRUCTIONS MIXING Spray Mix: Add the required number of water-soluble packs to a mixing bucket and add enough water to completely cover the bags. Stir until the bags are completely dissolved and pour the pre-mix into the spray tank. Non-water soluble packs: Add water to a mixing bucket and then add the contents of the required number of 333 g packs. Stir and pour the pre-mix into the spray tank.</p>
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Triple rinse the bucket and stirring implement, adding the rinse water to the spray tank. Agitate continuously to ensure thorough mixing before and during application. Only mix sufficient chemical for each day's work.

Tank mixtures: PYRIGRAN Insecticide should be added to the partially full spray tank first, followed by dry flowables, suspension concentrates (flowables, aqueous concentrates and then emulsifiable concentrate formulations.

COMPATIBILITY

PYRIGRAN Insecticide is compatible with carbendazim, dinocap, dodine, mancozeb, thiram, thiophanate-methyl, and ziram. APPLICATION Unless specified, it is essential to apply PYRIGRAN Insecticide in sufficient water to obtain thorough coverage. Apply through accurately calibrated equipment.

CLEANING SPRAY EQUIPMENT

Rinse water should be discharged onto a designated disposal area or, if this is unavailable onto unused land away from homes and watercourses. After using PYRIGRAN Insecticide, empty the spray equipment completely and drain the whole system. Quarter fill the spray equipment with clean water and circulate through the pump, line, hoses and nozzles. Drain and repeat procedure twice.

Resistance Warning:

RESISTANCE WARNING

For insect resistance management PYRIGRAN INSECTICIDE is a Group 1B insecticide. Some naturally-occurring insect biotypes resistant to PYRIGRAN INSECTICIDE and other Group 1B insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if PYRIGRAN INSECTICIDE or other Group 1B insecticides are used repeatedly. The effectiveness of PYRIGRAN INSECTICIDE on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Sulphur Mills Australia Limited accepts no liability for any losses that may result from the failure of PYRIGRAN INSECTICIDE to control resistant insects. PYRIGRAN INSECTICIDE may be subject to specific resistance management strategies. For further information contact your local supplier, representative or local agricultural department agronomist.

Precautions:

PRECAUTIONS

RE-ENTRY PERIOD Tree crops and vines: DO NOT allow entry into treated crops until spray deposits have dried. If prior entry is required, limit duration of entry and wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use. Greenhouses: DO NOT allow entry into greenhouses until spray deposits have dried and treated areas are adequately ventilated. If prior entry is required, limit duration of entry and wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), chemical resistant gloves and half-facepiece respirator. Clothing must be laundered after each day's use. Not for use around the home, garden, residential or public accessible spaces

Protections:

PROTECTION OF HONEY BEES AND OTHER INSECT POLLINATORS

Dangerous to bees. DO NOT spray any plants in flower while bees are foraging

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT HIGHLY TOXIC TO BIRDS AND REPTILES. VERY HIGHLY TOXIC TO FISH AND AQUATIC INVERTEBRATES.

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

A spray drift management strategy such as those in the Best Management Practices Manual for Cotton Growers or the Pilot and Operators Manual should be applied.

	Situation Recommended buffer distance (m Orchard (dormant trees, citrus, large trees 30 meters
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Storage and Disposal:	<p>STORAGE AND DISPOSAL SMALL SPILL MANAGEMENT If spillage of the Pyrigran granules occurs, wear protective clothing (see SAFETY DIRECTIONS). Remove granules from surfaces and sweep up residual material. Place in a container that will prevent further dispersion of granules. If spilled inside a building, wash contaminated surfaces to deactivate the chlorpyrifos with a solution of bleach (sodium hypochlorite) prepared according to the bleach label instructions. Prevent entry of spilled chemical or damaged containers into drains, dams or waterways. If liquid spray mix is involved, apply absorbent material such as earth, sand clay granules or cat litter to the spill. Sweep up material when absorption is completed and contain in a refuse vessel for disposal in the same manner as for containers (See STORAGE AND DISPOSAL section).</p> <p>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.</p>
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Safety Directions:	<p>SAFETY DIRECTIONS Harmful if swallowed. Repeated minor exposure may have cumulative poisoning effect. Will irritate the eyes. Avoid contact with eyes. When opening the container, preparing the spray and using the prepared spray, wear chemical resistant clothing buttoned to the neck and wrist, a washable hat, elbow-length PVC gloves and goggles and chemical resistant footwear and half piece respirator with combined dust and gas cartridge. 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 respirator and if rubber wash with detergent and warm water and contaminated clothing.</p>
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First Aid Instructions:	<p>FIRST AID If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre (Phone eg Australia 131126; New Zealand 0800 764 766) or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. If swallowed, activated charcoal may be advised. Give atropine if instructed. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.</p>
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First Aid Warnings:	
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DIRECTIONS FOR USE

CROP	PEST	STATE	RATE	CRITICAL COMMENTS
Apples	Apple Dimpling Bug	NSW, Vic, Qld, SA, WA only	67 g/100 L water (1 measure pack per 500 L water)	Apply up to late pink (balloon) stage. Reapply at the end of flowering, if necessary. DO NOT apply for a minimum of 3 days before bees are actively foraging
	Light Brown Apple Moth	All states	33 g/100L (1 measure pack per 1000 L water)	Apply as a full cover spray fortnightly after petal fall. This rate will also suppress Mealy Bug populations present at spraying (except in Tasmania)
Avocados	Queensland Fruit Fly (<i>Bactrocera tryoni</i>)	NSW, Qld only	80g plus 600 mL yeast hydrolysate/30 L water (1 measure pack plus 2.5L yeast hydrosylate per 122 L water)	Use 50 to 100 mL mixture/tree weekly, as a strip or patch low on the tree. AVOID CONTACT WITH FRUIT.
Bananas	Banana Weevil Borer	NSW and Qld only	33g / 100L water OR 333g/4kg sand (1 measure pack per 4 kg sand)	Remove trash and apply 600 mL of spray or 30 g sand mixture as a 30 cm band around the base of the plant. Apply once at maximum weevil activity in spring (October-November) and in Autumn (March-April). Note: A complete season's control is dependent on timely application.
Citrus	Queensland Fruit Fly (<i>Bactrocera tryoni</i>)	NSW and Qld only	80 g plus 600 mL yeast hydrolysate/30 L water (1 measure pack plus 2.5L yeast hydrosylate per 122 L water)	Use 50 to 100 mL of mixture/tree as a strip or patch low on the tree. Use every 7 to 10 days during periods of crop susceptibility. AVOID CONTACT WITH FRUIT.
Grapevines	Light Brown Apple Moth	All States	33 g/100 L water (1 measure pack per 1000 L water) or 333g/ha (1 measure pack per ha)	Apply initial spray just after berry set. Later sprays should be made as required.
Container plants in soil or other growing media—for	Argentine ants (<i>Linepithema humile</i>)	Tas only	167 g/25 L water (1 measure pack per 50 L water)	DO NOT use in residential areas or publicly accessible commercial or industrial areas To meet requirements to enter Tasmania, treat the base of plants and the surface of growing media. A white deposit will remain

commercial production only				
Kiwifruit	Light Brown Apple Moth	All States	33 g/100 L water (1 measure pack per 1000 L water) or 666 g/ha (2 measure packs per ha)	Apply the first application at green tip, pre- blossom or post-blossom, after bees have been removed. The second application should be after 14 days then every 21 to 28 days as required. Apply at least 10 days after dormant lime sulfur application.
Macrocarpa hedges—for commercial production only	Dimpling Bug (Niastama punctaticollis)	Tas only	33 g/100 L water (1 measure pack per 1000 L water) or 333g/ha (1 measure pack per ha)	DO NOT use in residential areas or publicly accessible commercial or industrial areas Spray hedges adjacent to orchards in late winter to early spring to prevent adults entering the orchards
Passionfruit	Queensland Fruit Fly (Bactrocera tryoni)	NSW, Qld only	80 g plus 600 mL yeast hydrolysate/30 L water (1 measure pack plus 2.5L yeast hydrosylate per 122 L water)	Apply 30 L of spray mixture/ha in a strip along the bottom of the vines. Repeat every 7 to 10 days during periods of fruit fly susceptibility. AVOID CONTACT WITH FRUIT This treatment is preferred in integrated pest management (IPM) programs where the use of cover sprays would be too disruptive.
Pears	Light Brown Apple Moth	NSW, Vic, SA, WA, Tas only	33 g/100 L water (1 measure pack/1000 L water)	Commencing after petal fall, apply as a full cover spray at fortnightly intervals. This rate will also suppress Mealy Bug populations present at spraying (except in Tasmania).
Stone fruit	Light Brown Apple Moth	Tas and WA only	33 g/100L water (1 measure pack/1000 L water)	Use 50 to 100 mL of mixture/tree as a strip or patch low on the tree. Use every 7 days. Use as an alternative to cover sprays, especially as an aid to integrated pest management, particularly integrated mite control. AVOID CONTACT WITH FRUIT.
	Queensland Fruit Fly (Bactrocera tryoni)	NSW and Qld only	80 g plus 600 mL yeast hydrosylate per 30L water(1 measure plus 2.5 L yeast hydrosylate per 122 L water)	

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