

Product Name: FARMALINX PIRICARB WG APHICIDE
APVMA Approval No: 64348/116114



Label Name:	FARMALINX PIRICARB WG APHICIDE
Signal Headings:	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Constituent Statements:	500 g/kg PIRIMICARB (an anti-cholinesterase compound)
Mode of Action:	GROUP 1A INSECTICIDE
Statement of Claims:	For control of certain aphids on crops and pastures as per directions for use table.
Net Contents:	1 – 10 kg
Restrains:	DO NOT apply from the air when the crosswind is less than 3 km/hr. DO NOT apply by equipment carried on the back of the user.
Directions for Use:	This section contains file attachment.
Other Limitations:	
Withholding Periods:	FRUIT, VEGETABLES: DO NOT HARVEST FOR 2 DAYS AFTER APPLICATION. CANOLA: DO NOT HARVEST, GRAZE OR CUT FOR STOCK FOOD FOR 14 DAYS AFTER APPLICATION.

COTTON: DO NOT HARVEST, GRAZE OR CUT FOR STOCK FOOD FOR 21 DAYS AFTER APPLICATION.

LUCERNE, MEDIC PASTURES: DO NOT GRAZE, CUT FOR STOCK FOOD OR FEED TO POULTRY FOR 3 DAYS AFTER APPLICATION.

LUPINS, WINTER CEREALS: DO NOT HARVEST, GRAZE OR CUT FOR STOCK FOOD OR FEED TO POULTRY FOR 6 WEEKS AFTER APPLICATION.

Trade Advice:

General Instructions:

GENERAL INSTRUCTIONS

MIXING

Fill tank 50 to 75% full then start agitation. Slowly pour granules into tank and maintain agitation throughout spraying.

DO NOT pre-mix FARMALINX Piricarb WG Aphicide granules.

APPLICATION

If this product is applied when the temperature is less than 15°C it is essential to have thorough spray coverage for quick and total aphid control.

FRUIT CROPS - TREE AND VINE CROPS

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 runoff. 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:

1. Dilute spray volume as determined above: For example 1500 L/ha.
2. Your chosen concentrate spray volume: For example 500 L/ha.
3. The concentration factor in this example is: 3 x (ie $1500 \text{ L} \div 500 \text{ L} = 3$)
4. If the dilute label rate is 10 mL/100 L, then the concentrate rate becomes 3 x 10, that is 30 mL/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 following industry Best Practices.

COMPATIBILITY

FARMALINX Piricarb WG Aphicide may be mixed in the spray vat with anyone of the following products: FARMALINX WetDrop 600 Wetter and Omite*. A mixture of FARMALINX Piricarb WG Aphicide with more

than one of these products or with any other product may be ineffective or may cause serious damage. The use of such a mixture is not recommended and would therefore be entirely at the user's risk.

Resistance Warning:

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

Resistance Management for Green Peach Aphid control

Some Green Peach Aphids are resistant to all commonly used insecticides including FARMALINX Piricarb WG Aphicide. If resistance is known or suspected, DO NOT use FARMALINX Piricarb WG Aphicide and seek advice on resistance management. If there is no FARMALINX Piricarb WG Aphicide resistance, use a maximum of 2 non-consecutive aphid sprays per season. If FARMALINX Piricarb WG Aphicide was used as the last aphid spray for the season, do not use it as the first aphid spray next season.

Precautions:

Protections:

PROTECTION OF LIVESTOCK

Animals and poultry should be kept away from orchards and other treated areas during the horticultural spraying season. Keep animals and poultry away from spray and treated areas for a minimum of 3 days.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with the chemical or used containers. DO NOT apply under meteorological conditions (eg. crosswinds less than 3km/hr) or from spraying equipment which could be expected to cause spray to drift onto adjacent areas, particularly wetlands, waterbodies or watercourses.

Storage and Disposal:

Store in the closed, original container in a dry, well ventilated area, as cool as possible out of direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilisers. 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.

Safety Directions:

Poisonous if absorbed by skin contact or inhaled or swallowed. May irritate the nose and throat and will irritate the eyes. Avoid contact with eyes and skin. Do not inhale dust or spray mist. When opening the container and preparing product for use wear cotton overalls, over normal clothing, buttoned to neck and wrist and a washable hat, elbow length chemical resistant gloves, goggles and half facepiece respirator with dust cartridge or

canister. If applying by boomspray equipment wear cotton overalls buttoned to neck and wrist (or equivalent clothing) and elbow length chemical resistant gloves. If applying by low pressure hand wand or high pressure hand wand wear cotton overalls, over normal clothing, buttoned to neck and wrist and a washable hat, elbow length chemical resistant gloves, goggles and a half facepiece respirator with dust cartridge or canister. If clothing becomes contaminated with product, or wet with spray remove clothing immediately. If product or spray on skin, immediately wash area with soap and water. If product or spray in eyes wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, goggles, respirator (if rubber wash with detergent and warm water) and contaminated clothing.

First Aid Instructions:	If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre (Phone Australia 13 11 26; 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.
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First Aid Warnings:	
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DIRECTIONS FOR USE**1. FRUIT CROPS - TREE AND VINE CROPS**

Rate	Critical Comments
In the following table: "Fruit Crops - Tree and Vine Crops" all rates given are for dilute spraying. For concentrate spraying, refer to the Mixing/Application Section.	For all uses in the table "Fruit Crops - Tree and Vine Crops": Apply by dilute or concentrate spraying equipment. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.

CROPS	PEST	STATE	RATE		WHP	CRITICAL COMMENTS
			PER 100 L	PER HA		
Apples	Woolly Aphid	NSW, ACT, Vic, Tas, SA, WA only	50 g	1.1-1.7 kg	2 days	Use the higher rate when less than 2200 L of spray per ha. Add 18 mL FARMALINX WetDrop 600 Wetter per 100 L.
Citrus	Citrus Aphid	NSW, ACT, Vic, Tas, SA, WA only	50 g	1.1 kg	2 days	Apply when aphids appear. Use at least 2200 L spray per ha.
	Aphids	Qld, WA only	2.5 g	-		Apply only where pest management is being implemented and only when it is apparent that parasite predators will not control the infestation within a reasonable time.
Stone fruit	Green Peach Aphid, Black Peach Aphid, Cherry Aphid	All States	50 g	1.1 kg		Apply at pink bud stage or when aphids appear. Use at least 1100 L spray/ha.

2. FRUIT CROPS - NON TREE AND VINE CROPS

CROPS	PEST	STATE	RATE		WHP	CRITICAL COMMENTS
			PER 100 L	PER HA		
Blueberries Pepinos Strawberries	Aphids	Qld, WA only	50 g	-	2 days	Thorough coverage is necessary. If used in conjunction with predatory mites, apply before release or only after mites have fully established within the crop.
		Qld, NSW, ACT, WA only	35 g			

3. VEGETABLES

CROPS	PEST	STATE	RATE		WHP	CRITICAL COMMENTS
			PER 100 L	PER HA		
Artichokes (globe) Asparagus	Aphids	All States	50 g	-	2 days	-

Beetroot	Green Peach Aphid		-	1 kg		Use at least 500 L spray/ha plus 18 mL/100 L FARMALINX WetDrop 600 Wetter.
Beans	Cowpea Aphid (<i>Aphis craccivora</i>)	Vic, Tas, WA only		500 g		Apply as beans emerge and thereafter whilst aphid attack continues. Spray thoroughly.
Broad, Beans, Lima Beans	Aphids	All States	50 g	-		As above.
Broccoli, Brussels Sprouts, Cabbages, Cauliflowers	Cabbage Aphid		100 to 200 g	500 g to 1 kg		Apply every 10 to 14 days commencing 1 week after planting. Use 500 L spray per ha. Add 18 mL FARMALINX WetDrop 600 Wetter per 100 L. If lower spray volumes per ha are used, increase the rate per 100 L to maintain the equivalent rate of product per ha. Use the higher rate if temperature falls below 20°C.
Brussels Sprouts, Cabbages, Cauliflowers	Green Peach Aphid		100 to 200 g	500 g to 1 kg		As above.
Chinese Cabbages	Cabbage Aphid, Green Peach Aphid					
Capsicums	Aphids	All States	100 to 200 g	500 g to 1 kg	2 days	Spray when aphids are detected and repeat if necessary. Use the higher rates if applied in conditions below 20°C.
Cucurbits						Apply every 5 to 10 days during periods of rapid plant growth to delay virus buildup. Use the higher rates if applied in conditions below 20°C.
Endive, Garden Cress			50 g	-		-
Kale	Cabbage Aphid, Green Peach Aphid		100 to 200 g	500 g to 1 kg		Apply every 10 to 14 days commencing 1 week after planting. Use 500 litres spray per ha. Add 18 mL FARMALINX WetDrop 600 Wetter per 100 L. If lower spray volumes per ha are used, increase the rate per 100L to maintain the equivalent rate of product per ha. Use the higher rate if temperature falls below 20°C.
Kiwano	Aphids	All States	100 to 200 g	500 g to 1 kg	2 days	Apply every 5 to 10 days during period of rapid plant growth to delay virus buildup.
Leeks			50 g	-		-
Lettuce			100 to 200 g	500 g to 1 kg		Spray when aphids are detected and repeat if necessary. Use the higher rates if applied in conditions below 20°C.

CROPS	PEST	STATE	RATE		WHP	CRITICAL COMMENTS
			PER 100 L	PER HA		
Okra			50 g	-		For use in IPM programs where Helicoverpa resistance strategy is being practiced.
Peas		NSW only	100 to 200 g	500 g to 1 kg		- Spray when aphids are detected and repeat if necessary. Use the higher rates if applied in conditions below 20°C.
Potatoes	Potato Aphid	All States	250 to 500 g	500 g to 1 kg		Apply in 200 L spray per ha when aphids first appear. If higher spray volumes per ha are used, decrease the rate per 100L to maintain the equivalent rate of product per ha. Use the higher rate if temperature falls below 20°C.
Radishes	Cabbage Aphid, Green Peach Aphid	All States	100 to 200 g	500 g to 1 kg		Apply every 10 to 14 days commencing 1 week after planting. Use 500 L spray per ha. Add 18 mL FARMALINX WetDrop 600 Wetter per 100 L. If lower spray volumes per ha are used, increase the rate per 100 L to maintain the equivalent rate of product per ha. Use the higher rate if temperature falls below 20°C.
Shallots, Spinach	Aphids		50 g	-		-
Swedes, Turnips	Cabbage Aphid, Green Peach Aphid	All States	100 to 200 g	500 g to 1 kg		Apply every 10 to 14 days commencing 1 week after planting. Use 500 L spray per ha. Add 18 mL FARMALINX WetDrop 600 Wetter per 100 L. If lower spray volumes per ha are used, increase the rate per 100 L to maintain the equivalent rate of product per ha. Use the higher rate if temperature falls below 20°C.
Tomatoes	Aphids	All States	100 to 200 g	500 g to 1 kg		Spray when aphids are detected and repeat if necessary. Use the higher rates if applied in conditions below 20°C.
Watercress	Aphids	All States	50 g	-		-

4. ORNAMENTALS

CROPS	PEST	STATE	RATE PER 100 L	CRITICAL COMMENTS
Roses, Chrysanthemums	Rose Aphid, Chrysanthemum Aphid	All States	50 g	Apply when aphids appear. Spray to give complete coverage of plants
Ornamentals	Aphids	NSW, WA only	35 g	<p>If applied in conjunction with predatory mites (<i>Phytoseiulus persimilis</i>) apply before release or only after mites have become fully established.</p> <p>DO NOT apply more than 2 sprays in quick succession where IPM is practiced. Where roses are grown in dense hedges and IPM is used, spray only the upper half of the hedge where the aphids are attacking the buds. Allow the lower half of the hedge to serve as a refuge for <i>P. persimilis</i>. In such situations FARMALINX Piricarb WG Aphicide should NOT be mixed with a fungicide which requires very careful coverage.</p> <p>Note: Because of the wide range of crops and pests encompassed under Ornamentals, the phytotoxicity and efficacy of this compound cannot be guaranteed under all uses. Test the chemical for phytotoxicity on a small area of crop before widespread usage.</p>
		Qld, WA only		

5. BROADACRE CROPS

CROPS	PEST	STATE	RATE	WHP	CRITICAL COMMENTS	
			PER 100 L			PER HA
Canola	Cabbage Aphid (<i>Brevicoryne brassicae</i>), Green Peach Aphid (<i>Myzus persicae</i>)	All States	-	500 g to 1 kg	14 days harvest/ grazing	Apply when aphids first appear using 30 to 100 L water/ha (ground rig) or 20 to 50 L/ha (aerial). Use higher rate if temperature falls below 20°C. Add 18 mL FARMALINX WetDrop 600 Wetter per 100 L spray.
Cotton	Cotton Aphid (<i>Aphis gossypii</i>), Green Peach Aphid (<i>Myzus persicae</i>)	Qld, NSW, WA only	-	500 g or 750 g	21 days harvest/ grazing	Thorough spray coverage is essential to produce best results. Stage I - apply when aphids exceed 90% plants infested. Stage II - apply when aphids exceed 95% plants infested. Stage III - apply when aphids exceed 50% plants infested, or - if 1 % bolls are open and honeydew is present apply when aphids exceed 10% of plants infested.
				Aerial Application Spray volume of 30 to 50 L/ha		
				Ground Application Spray volume of		

				L/ha minimum		If a spray is required for another pest, the aphid threshold for each stage should be reduced by half to determine the need to spray for aphids; eg. 50% becomes 25% plants infested. Use FARMALINX Piricarb WG Aphicide no more than twice per season. Adhere to the resistance management strategy and rotate chemistry. DO NOT use FARMALINX Piricarb WG Aphicide as consecutive sprays.
Duboisia	Aphids	Qld, WA only	50 g	1.1 kg	-	Apply when populations warrant.
Lucerne, Medic pastures	Spotted Alfalfa Aphid, Blue Green Aphid	All States	-	100 to 150 g in 200 to 300 L water	3 days grazing	<p>Application: High rate to be used when there is a high aphid population density or with dense crop growth. Complete coverage and penetration of the crop is essential.</p> <p>Timing: Qld only – On seedling lucerne, treatment is necessary when one or two aphids are present per plant. Established lucerne and medics (Spring and Summer) – spray when there are 20 to 40 aphids per stem. Spotted Alfalfa Aphid (NSW, SA, Tas, WA only): Apply when aphids begin to build up on stems and repeat as necessary. Spotted Alfalfa Aphid and Pea Aphid (Vic only). Seedling lucerne and medics – treat when 1 to 2 aphids per plant are present. Established lucerne and medics (Spring and Summer) – spray when there are 20 to 40 aphids per stem. TAS only – A cold weather adapted species which may be found at most times of the year. Spraying should be carried out when aphids begin to increase and be repeated as necessary. For the control of both the above lucerne and medic pasture pests FARMALINX Piricarb WG Aphicide at the recommended rate should be applied in 200 to 300L of water per ha. Complete coverage and penetration of the crop is essential.</p> <p>Blue Green Aphid This aphid is cooler weather tolerant and will be found at all times of the year. Spraying should</p>

						be carried out as aphids are observed. In some areas Spotted Alfalfa Aphid has developed tolerance to pirimicarb and in those areas FARMALINX Piricarb WG Aphicide will not give satisfactory control. However, apparent tolerance should not be confused with poor application. Consult your local Department of Agriculture representative for local information.
Lucerne	Pea Aphid	Vic, WA only	-	100 to 150 g	3 days grazing	Apply when aphids begin to build up on stems. Repeat as necessary. Use 200 to 300 L per ha. Use the higher rate when there is a high aphid population density or dense crop or when temperature falls below 20°C.
Lupins	Green Peach Aphid	NSW, ACT, Vic, WA only	-	250 g	6 weeks harvest/ grazing	Apply when aphids first appear using 20 to 100 L/ha (ground rig) or 4 to 15 L/ha (aerial). Repeat as necessary. If low relative humidity conditions prevail add 1% or 10% Summer Spray Oil (DC-Tron or Caltex) to spray solution for ground and aerial Application respectively. Note: For best coverage and hence best results with aerial application; apply when a slight crosswind with a minimum speed of 3 km/hr is present.
	Cowpea Aphid	NSW, ACT, Vic, WA only	-			
	Green Peach Aphid	WA only		300 g		
Winter Cereals	Aphids (<i>Rhopalosiphum maidis</i>)	All States	-	150 g	6 weeks harvest/ grazing	Apply when 20 or more aphids are present per tiller and when the crop is between emergence of last leaf and flowering stages. Use 20 to 100 L/ha (ground rig) or 4 to 15 L/ha (aerial). If low relative humidity conditions prevail add Summer Spray Oil as for lupins. Where there is concern for infection by Barley Yellow Dwarf virus, spraying should be carried out as soon as aphids are located in the crop.
	Aphids (<i>R. maidis</i> , <i>R. paddi</i>)	WA only	-	250 g to 300 g		

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