



# PYRINEX 500WP

**GROUP 1B INSECTICIDE**

**Active Ingredient:** 500g/kg Chlorpyrifos  
(AN ANTICHOLINESTERASE COMPOUND)

**Poison Schedule:** S6

**Dangerous Goods Class:** 6.1

**Withholding Period:** See Below.

**Registered for use In:** All States.

**Available In:** 5.5kg (22 x 250g measure packs)

## **DIRECTIONS FOR USE**

### TREE AND VINE CROPS

RATE				WHP (days)	CRITICAL COMMENTS
CROP	INSECT	RATE	RATE		
In the following table, all rates are given for dilute spraying. For concentrate spraying, refer to the Mixing/Application section.				For all uses in this table: Apply by dilute or concentrate spraying equipment. <b>Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.</b>	
APPLES (NSW, Vic, SA, Qld, WA only)	Apple Dimpling Bug	100g/100L water (1 measure pack per 250L water)		14	Apply up to late pink (balloon stage), reapply at the end of flowering, if necessary. Do not apply for a minimum of three days before bees are actively foraging.
Apples, Pears (NSW, WA, Vic, Tas, SA only)	Light Brown Apple Moth	50g/100L water (1 measure pack per 500L water)			Commencing after petal fall, apply as a full cover spray at intervals of two weeks. This rate will also suppress mealy bug populations present at spraying (not in Tasmania)
AVOCADO (NSW and Qld only)	Queensland Fruit Fly	120g plus 600ml yeast hydrolysate per 30L water		7	Use 50-100mL of mixture/tree as a strip or patch low on the tree every seven days. Avoid Contact With Fruit.
CITRUS	Queensland Fruit Fly (Qld and NSW only)	120g plus 500ml yeast hydrolysate per 30L water		14	Use 50-100mL of mixture/tree as a strip or patch low on the tree. Use ever 7 to 10 days during periods of crop susceptibility. Avoid contact with fruit.
GRAPE VINES	Light Brown Apple Moth	50g/100L water (1 measure pack per 500L water) or 500g/ha (2 measure packs per ha)			Apply initial spray just after berry set. Later schedule sprays should be made as required.



**Pyrinex 500WP<sup>®</sup>**  
Colin Campbell (Chemicals) Pty Ltd

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CROP	INSECT	RATE	WHP (days)	
KIWI FRUIT	Light Brown Apple Moth (All States)	50g/100L water (1 measure pack per 500L water) or 1kg/ha (4 measure packs per ha)	14	Apply the first application at green-tip, pre-blossom or post blossom, after bees have been removed. The second application should be 14 days then every 21-28 days as required. Apply at least 10 days after dormant lime sulphur application.
Stone fruit	Light Brown Apple Moth (Tas, WA only)	50g/100L water (1 measure pack per 500L water).		Commencing after petal fall, apply as a full cover spray at intervals of two weeks. This rate will also suppress mealy bug populations present at spraying (not in Tasmania).
	Queensland fruit fly ( <i>Bactrocera tryoni</i> ) (NSW and Qld only)	120g plus 600mL yeast hydrolysate per 30L water		Use 50 to 100mL of mixture/tree as a strip or patch low on the tree every seven days. Use as an alternative to cover sprays, especially as an aid to integrated pest management, particularly integrated mite control. <b>AVOID CONTACT WITH FRUIT</b>
Macrocarpa Hedges (Tas only)	Dimpling Bug	50g/100L water (1 measure pack per 500L water) or 500g/ha (2 measure packs per ha)	-	Spray hedges adjacent to orchards in late winter to early spring to prevent adults from entering the orchard.
Passion fruit (NSW and Qld only)	Queensland Fruit Fly	120g plus 600ml yeast hydrolysate per 30L water	14	Apply 30L of spray mixture per hectare in a strip along the bottom of the vines. Repeat every 7-10 days during periods of fruit fly susceptibility. <b>AVOID CONTACT WITH FRUIT.</b> This treatment is preferred in IPM programmes where the use of cover sprays would be disruptive.



**NON-TREE AND VINE CROPS**

CROP	INSECT	RATE	WHP (days)	CRITICAL COMMENTS
BANANAS (Qld only)	Banana Scab Moth	Air blast: 250g/125L water (1 measure pack per 125L water) <b>or</b> 1 or 2kg/ha (4 or 8 measure packs per ha) Knapsack: 10g/5L water	14	Apply from the first appearance of flowers and repeat as populations indicate until fingers are exposed. Air blast: Use 500 to 1000L water/ha. Use the high rate with onset of wet weather and for high insect numbers
	Banana Scab moth (Qld only)	250g/125L water (1 measure packs per 125L water) or 1 or 2Kg/ha (4 or 8 measure packs per ha) Knapsack: 10g/5L water		Apply from the first appearance of flowers and repeat as populations indicate until fingers are exposed. Air Blast: Use 500 to 1000L water/ha . Use the high rate with onset of wet weather and for high insect numbers.
	Banana weevil borer (Qld and NSW only)	500g/100L water (2 measure packs per 100L water) <b>OR</b> 500g/4kg sand (2 measure packs per 4kg sand)		Remove trash and apply 600mL of spray or 30g sand mixture as a 30cm band around the base of the plant. Apply one application at maximum weevil activity in spring (October to November) and in autumn (March to April) NOTE: Complete season's control is dependent on timely application.
Container plants in soil or other growing media. (Tas only)	Argentine Ants	250g/25L water (1 measure pack per 25l water)	-	To meet requirements to enter Tasmania treat the base of plants and the surface of growing media. A white deposit will remain.
GINGER (Qld only)	Cutworm	700 or 900g/ha		Apply when population is evident from damage to the primary shoot (at or below ground level) or to the first leaf.

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

**WITHHOLDING PERIODS**

Apples, bananas, citrus, grape vines, kiwi fruit, passion fruit, pears, stone fruit: **DO NOT HARVEST FOR FOURTEEN DAYS AFTER APPLICATION.**  
Avocado: **DO NOT HARVEST FOR SEVEN DAYS AFTER APPLICATION.**

**General Instructions**

**Mixing:** Add the required number of pre-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. 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 days work. Tank mixtures: Pyrinex 500WP should be added to the partially full spray tank first, followed by dry flowables, suspension concentrates (flowables), aqueous concentrates and then emulsifiable concentrate formulations.



## **Application:**

### 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 100L 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 1500L/ha.
  2. Your chosen concentrate spray volume: for example 500L/ha.
  3. The concentration factor in this example is : 3 X (i.e. 1500L / 500L = 3)
  4. If the dilute label rate is 40mL/100L, then the concentrate rate becomes 3 x 40, that is 120mL/100L of concentrate spray.
- The chosen spray volume, amount of product per 100L 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 follow industry Best Practice.

### Compatibility

Pyrinex 500WP is compatible with benomyl, Goldazim, dicofol, dinocap, Syllit, mancozeb, propargite, superior oils, tetradifon, thiram, thiophanate methyl, ziram.

### Cleaning Spray Equipment

Rinse water should be discharged onto wasteland away from homes and water courses. After using Pyrinex 500WP, empty the spray equipment completely and drain the whole system. Quarter fill the spray equipment with clean water and circulate through pump, line, hoses and nozzles. Drain and repeat procedure twice.

### Precautions - Re-entry period

Field crops, 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. 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.

### **Protection Of Livestock**

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

### **PROTECTION OF WILDLIFE, FISH, CRUSTACEA, NATIVE AND NON-TARGET PLANTS AND ENVIRONMENT**

HIGHLY TOXIC TO BIRDS AND REPTILES. VERY HIGHLY TOXIC TO FISH AND AQUATIC INVERTEBRATES. DO NOT re-apply to the same crop within 7 days. DO NOT apply if heavy rains or storms that are likely to cause surface runoff are forecast in the immediate area within two days of application. DO NOT apply when irrigating, or to waterlogged soil, or while water remains on the surface or in furrows, unless tailwater is captured on farm. DO NOT allow contaminated water from treated paddocks to enter adjacent areas or water bodies. Runoff contaminated by irrigation events (tailwater) and a 25mm rain storm should be captured on farm for two days after application.

**Spray drift warning:** Spray drift may occur under adverse meteorological conditions or from certain spray equipment. DO NOT allow spray to drift onto sensitive areas including, but not limited to, natural streams, rivers or waterways and human dwellings. A spray drift management strategy such as those in the "Best Management Practices Manual for Cotton Growers" or the "Pilots and Operators Manual" should be applied.

**Spray drift minimisation:** Options for minimising drift to sensitive areas include not spraying within a certain distance of sensitive areas when the wind is blowing towards them (see table below for guidance) or ensuring that drifting spray will be intercepted by a catching surface such as a row of shelter trees, an unsprayed row of orchard trees, or hail netting.

Situation	Recommended buffer distance (m)
Orchard (dormant trees, citrus, large trees)*	30
Other crops	100



### **Storage And Disposal**

Store in tightly closed, original container in a securely locked well ventilated area, out of direct sunlight. Do not store near feedstuffs, fertilizers or seeds. Triple or preferably pressure rinse containers before disposal and add rinsings to the 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 bury empty containers in a local authority landfill. If no local landfill is available bury the containers at a depth of 500mm or more in a 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. Rinsate/rinse water should be disposed of in accordance with appropriate State legislation and should preferably be sprayed on to an application site or added as up to 10% of the diluent the next time this product is used. Do not put down sewers, gutters or storm water drains. In some States wastes can only be buried at a licenced landfill. DO NOT burn empty containers or product.

### **Safety Directions**

Product is poisonous if inhaled or swallowed or absorbed by skin. Repeated minor exposure may have a cumulative poisoning effect. Obtain an emergency supply of atropine tablets 0.6mg. Will irritate the eyes and skin. Avoid contact with eyes and skin. Do not inhale dust or vapour or spray mist. When opening container and preparing the spray and using the prepared spray wear cotton overalls buttoned to the neck and wrists and washable hat, elbow-length PVC gloves and face shield or goggles. If product on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking wash hands, arms and face thoroughly with soap and water. After each days use, wash gloves, face-shield or goggles and contaminated clothing.

### **First Aid**

If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone 13 11 26. **If swallowed**, give one atropine tablet every five minutes until dryness of the mouth occurs **If poisoned by skin absorption or through lungs**, remove contaminated clothing, wash skin thoroughly, and give atropine tablets as above. Get to a doctor or hospital quickly.  
**If in eyes**, hold eyes open, flood with water for at least 15 minutes and see a doctor.

### **Material Safety Data Sheet**

For further information refer to the Material Safety Data Sheet (MSDS 24).

**APVMA Approval No. 40812**