

POISON

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



Chlorpyrifos 500

INSECTICIDE

ACTIVE CONSTITUENT: 500 g/L CHLORPYRIFOS (an anti-cholinesterase compound)

SOLVENT: 470 g/L HYDROCARBON LIQUID

GROUP 1B INSECTICIDE

For the control of certain insect pests of: cassava, cereals, forage crops, fruit, ginger, grapevines, hops, oilseeds, pasture, pineapples, sugarcane, turf farm commercial and vegetable crops, and other situations as specified in the Directions for Use table.

THIS PRODUCT IS TOO HAZARDOUS FOR USE BY HOUSEHOLDERS.
HOUSEHOLDERS DO NOT USE THIS PRODUCT IN OR AROUND THE HOUSE.

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USE

Australis Crop Protection Pty Ltd

ABN 94 150 711 185

Shop 4, 30 Heber Street, Moree NSW 2400

Telephone: 0417 329 133 • Facsimile: 07 3337 9882

www.austcrop.com.au

CONTENTS

110 Litres

BATCH NO:

DATE OF MANUFACTURE:



Chlorpyrifos 500

INSECTICIDE



STORAGE AND DISPOSAL

Store in the closed original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.

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 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, and in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product.

SAFETY DIRECTIONS

Product is poisonous if absorbed by skin contact, inhaled or swallowed. Repeated exposure may cause allergic disorders. Repeated minor exposure may have a cumulative poisoning effect. Will irritate eyes and skin. Avoid contact with eyes and skin. DO NOT inhale vapour or spray mist. When opening the container, preparing and using the prepared spray, chemical resistant clothing buttoned to the neck and wrist, a washable hat, elbow length PVC gloves, goggles, chemical resistant footwear, half facepiece respirator with combined dust and gas cartridge. If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product on skin, immediately wash area with soap and water. If product gets in eyes, wash it out immediately with water. After use and before eating, drinking, 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. Obtain an emergency supply of Atropine tablets.

FIRST AID

If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre (Australia Phone: 13 11 26 or New Zealand 0800 764 766) or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. If swallowed, DO NOT induce vomiting, give a glass of water. Activated charcoal may be advised. Give atropine as instructed. 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) which is available from Australis Crop Protection upon request.

CONDITIONS OF SALE: The use of ACP Chlorpyrifos 500 Insecticide being beyond the control of the manufacturer no warranty expressed or implied is given by Australis Crop Protection Pty Ltd regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Australis Crop Protection Pty Ltd accepts no responsibility for any consequence whatsoever resulting from the use of this product.

UN. 3018	
ORGANOPHOSPHORUS PESTICIDE, LIQUID, NOS	
(CONTAINS CHLORPYRIFOS)	
HAZCHEM: 2WE PG: III	
IN A TRANSPORT EMERGENCY	SPECIALIST ADVICE IN EMERGENCY ONLY
DIAL 000	1800 033 111
POLICE OR FIRE BRIGADE	ALL HOURS AUSTRALIA WIDE



AUSTRALIS
CROP PROTECTION

Australis Crop Protection Pty Ltd
ABN 94 150 711 185

Shop 4, 30 Heber Street, Moree NSW 2400
Telephone: 0417 329 133 • Facsimile: 07 3337 9882

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



Chlorpyrifos 500

INSECTICIDE

ACTIVE CONSTITUENT: 500 g/L CHLORPYRIFOS
(an anti-cholinesterase compound)
SOLVENT: 470 g/L HYDROCARBON LIQUID

GROUP **1B** INSECTICIDE

For the control of certain insect pests of: cassava, cereals, forage crops, fruit, ginger, grapevines, hops, oilseeds, pasture, pineapples, sugarcane, turf farm commercial and vegetable crops, and other situations as specified in the Directions for Use table.

THIS PRODUCT IS TOO HAZARDOUS FOR USE BY HOUSEHOLDERS.

HOUSEHOLDERS DO NOT USE THIS PRODUCT IN OR AROUND THE HOUSE.

IMPORTANT: READ THIS LEAFLET BEFORE USE

APVMA Approval No.: 81735/103921



AUSTRALIS
CROP PROTECTION

Australis Crop Protection Pty Ltd
ABN 94 150 711 185
Shop 4, 30 Heber Street, Moree NSW 2400
Telephone: 0417 329 133 • Facsimile: 07 3337 9882

STORAGE AND DISPOSAL

Store in the closed original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.

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 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

Product is poisonous if absorbed by skin contact, inhaled or swallowed. Repeated exposure may cause allergic disorders. Repeated minor exposure may have a cumulative poisoning effect. Will irritate eyes and skin. Avoid contact with eyes and skin. DO NOT inhale vapour or spray mist. When opening the container, preparing and using the prepared spray, chemical resistant clothing buttoned to the neck and wrist, a washable hat, elbow length PVC gloves, goggles, chemical resistant footwear, half facepiece respirator with combined dust and gas cartridge. If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product on skin, immediately wash area with soap and water. If product gets in eyes, wash it out immediately with water. After use and before eating, drinking, 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. Obtain an emergency supply of Atropine tablets.

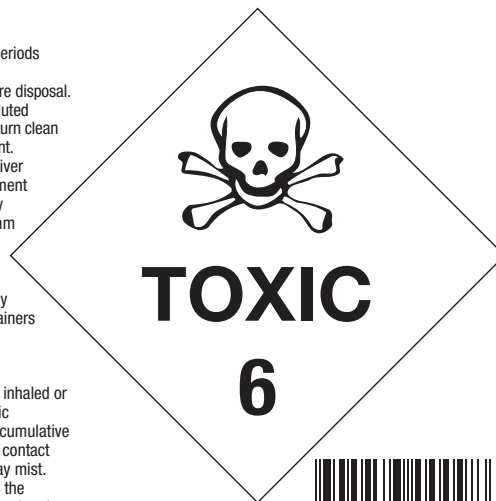
FIRST AID

If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre (Australia Phone: 13 11 26 or New Zealand 0800 764 766) or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. If swallowed, DO NOT induce vomiting, give a glass of water. Activated charcoal may be advised. Give atropine as instructed. 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) which is available from Australis Crop Protection upon request.

CONDITIONS OF SALE: The use of ACP Chlorpyrifos 500 Insecticide being beyond the control of the manufacturer no warranty expressed or implied is given by Australis Crop Protection Pty Ltd regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Australis Crop Protection Pty Ltd accepts no responsibility for any consequence whatsoever resulting from the use of this product.



UN. 3018
ORGANOPHOSPHORUS
PESTICIDE, LIQUID,
NOS (CONTAINS
CHLORPYRIFOS)
HAZCHEM: 2WE PG: III

IN A TRANSPORT EMERGENCY

DIAL 000

POLICE OR FIRE BRIGADE

SPECIALIST ADVICE
IN EMERGENCY ONLY

1800 033 111

ALL HOURS AUSTRALIA WIDE

▲ PEEL HERE ▲

DIRECTIONS FOR USE

CROP	INSECT	STATE	RATE		WHP	CRITICAL COMMENTS
			VOL/HA	VOL/100 L		
Apples, Pears	San Jose Scale	Qld, NSW, SA, WA only	–	100mL (2% Miscible Winter oil may be added to the dormant spray)	14 days	Dormant Period: Apply as late as possible ensuring thorough coverage of limbs and branches. Seasonal period: Apply to coincide with crawler activity in mid-late November and later as necessary. Ensure thorough coverage of limbs, branches, foliage and fruit.
	Woolly Aphid					Apply when infestation build-up is first noticed ensuring thorough coverage.
	Mealy Bugs	SA, WA only				Apply initially at petal fall and then 10-14 days later. Apply a follow-up application if necessary, 2-3 weeks prior to harvest. Thorough coverage of all limbs and branches is essential.
Avocado	Avocado Leafroller	Qld, WA only	1 or 2 L	50 or 100 mL	7 days	Use this rate in tank mix with 1 L/ha (500 mL/100 L of water) of Dichlorvos (500 g/L). For low volume spray equipment use L/ha rate. Apply at first sign of pest activity before larvae move to fruit. Use higher rate when populations are high.
	Ivy Leafroller	NSW, WA only				Apply at first sign of pest activity before larvae move to fruit. Use higher rate when populations are higher. For low volume spray equipment use L/ha rate.
	Latania Scale, Hairy Caterpillars, Light Brown Apple Moth, Redshouldered Leaf Beetle	NSW, WA only				Apply when populations indicate treatment is required. Spotspray affected trees only. Repeat as necessary. Use higher rate when populations are high.
Bananas	Banana Scab Moth (<i>Nacoleia octasema</i>)	Qld, WA only	1-2 L	200 mL	14 days	Apply from the first appearance of flowers and repeat as populations indicate until fingers are exposed. Use high rate with onset of wet weather and/or heavy insect pressure.
	Banana Weevil Borer	Qld, NSW, WA only	–	1-1.8 L		After removal of trash, apply 500-700 mL of spray (depending on butt size) to lower 30 cm of the butt and to the surrounding soil within 30cm, ensuring thorough coverage of butt and suckers. Sub-tropical areas: Use high rate for annual control of borers. Tropical areas: Use high rate in Sept-Nov for initial spray and follow-up with low rate in Feb-April should insect numbers warrant a second application.

CROP	INSECT	STATE	RATE		WHP	CRITICAL COMMENTS
			VOL/HA	VOL/100 L		
Bananas – <i>continued</i>	Caterpillars	NSW, WA only	–	200 mL	14 days	Apply from the first appearance of flower bell and repeat as populations indicate until fingers are exposed. Use as ground application only, do not apply by air.
Carrots	Light Brown Apple Moth	NSW, WA only	500 mL or 700 mL	–		Apply when moths are first detected. Repeat at the higher rate if there is a recurrence of infestation.
Cassava	Cutworm (<i>Agrotis</i> spp.)	Qld, WA only	700 mL	–		Apply to seedlings and soil at the base of seedling, when cutworm activity is observed.
Citrus	California Red Scale (<i>Aonidella aurantii</i>)	Qld, NSW, Vic, SA, WA only	–	100 mL or 50 mL/1 L miscible Summer spraying oil		Apply during November/March period. Two sprays may be required under conditions of heavy scale infestation. Apply with high volume sprayers to point of run-off. Note: DO NOT use on citrus in area where integrated control programs are in operation.
Citrus, Pome Fruit	Wingless Grasshopper	NSW, Vic, Tas, SA, WA only	500 mL	50 mL		Spray areas of crop infested with grasshoppers. Apply also as a barrier across the line of advance, when grasshoppers are invading the crop.
Cole crops including Cabbage, Cauliflower	Cabbage Moth, Cabbage White Butterfly, Cabbage Aphid, Cluster Caterpillar, Cabbage Cluster Caterpillar	NSW, Vic, Tas, SA, WA only	1.5-2 L	150-200 mL	5 days	Spray at 10-14 day intervals. Use high rate under heavy pressure. Large Plants: Use 1000 L/ha. To improve spray coverage add non-ionic wetting agents as recommended.
	Corn Earworm, Native Budworm (<i>Helicoverpa</i> spp.)	Qld, WA only	1.5 L	150 mL		Apply as pests indicate commencing when pests first appear. Large Plants: Use 1000 L/ha.
	Corn Earworm	NSW, Vic, SA, WA only	1.5-2 L	150-200 mL		Apply at 10-14 day intervals. Use high rate under heavy pest pressure. Large Plants: Use 1000 L/ha.
	Native Budworm (<i>Helicoverpa punctigera</i>)	NSW, Vic, Tas, SA, WA only	1.5-2 L	150-200 mL		Apply at 10-day interval commencing when pests first appear. Apply at 7-day interval under heavy pest pressure. Large Plants: Use 1000 L/ha.

CROP	INSECT	STATE	RATE		WHP	CRITICAL COMMENTS
			VOL/HA	VOL/100 L		
Cabbage, Cauliflower	African Black Beetle	NSW, WA only	2 L (boom-spray)	300 mL (drench)	5 days	Boom Spray: Apply in 500-1000 L of water/ha at or soon after planting as a 10-15 cm band spray. Drench: Apply 100 mL of diluted spray to base of each plant. Treat as soon as the first signs of infestation are observed. Note: If attack is prolonged follow up boom spray or drench treatment may be necessary.
Cucurbits	White Flies	NSW, WA only	–	50 mL	–	Apply when pest is first detected. If required repeat applications every 10-14 days.
Ginger	Cutworm (<i>Agrotis</i> spp.)	Qld, WA only	700-900 mL	–		Apply when pest population is evident from damage to the primary shoot at or below ground, or to the first leaf during growth.
Grapevines	Light Brown Apple Moth	All States	500 mL	50 mL	14 days	Apply initial spray just after berry set (early October). Later schedule sprays should be made as required.
	Grapevine Moth	Qld, NSW, Tas, SA, WA only		100 mL alone or add 50 mL + 1 L miscible Winter Oil		Apply as a dormant spray, post pruning (July).
	Grapevine Scale					
Kiwi Fruit	Common Armyworm, Southern Armyworm	Qld, NSW, Vic, Tas, SA, WA only	1 L	50 mL	–	Apply at green tip at least 10 days after dormant lime sulphur application and preblossom. DO NOT apply post blossom.
Mango	Common Mango Scale	Qld, WA only	–	100 mL	21 days	Apply to coincide with crawler activity. Ensure thorough coverage of all branches, foliage and fruit.
Pineapples	Pineapple Mealy-bug, Ants	Qld, WA only	–	100 mL use a minimum of 3000 L water/ha	–	Apply when pests are first seen and repeat at 90-day intervals or as necessary.
Potatoes	African Black Beetle	NSW, WA only	3-6 L & 900 mL	–	–	Apply the spray to the soil immediately prior to planting, ensuring thorough incorporation to a depth of 15 cm. Use high rate under heavy pest pressure. Apply as a second spray at tuber initiation.
	White Fringed Weevil	NSW, Vic, WA only	6 L			Apply pre-plant and incorporate into the soil immediately after application.

CROP	INSECT	STATE	RATE		WHP	CRITICAL COMMENTS
			VOL/HA	VOL/100 L		
Potatoes – <i>continued</i>	White Fringed Weevil	NSW, WA only	1 L		–	Apply at hilling-up or 7 weeks after planting as a follow up to pre-plant incorporation.
	Wireworm	Vic, WA only	6 L			Apply as a band spray to the soil surface incorporating immediately. Use before planting in areas where wireworm is a known problem.
Silverbeet	Redlegged Earth Mite, Blue Oat Mite	NSW, WA only	140 or 300 mL	–	–	Use higher rate for severe infestations. Headlands and vegetation surrounding the crop may also need to be treated.
Stonefruit	European Earwig	NSW, WA only	2 L	100 mL	14 days	Spray Application: Apply in a minimum of 2000 L/ha in Spring. If lower volume used increase concentration to apply 2 L of product/ha.
			200 mL + 250 mL Sunflower oil/5 kg cracked wheat or cracked sorghum bait			Bait Application: Apply 5 kg of bait/ha in Spring by fertiliser spreader. See General Instruction on preparation of cracked wheat or cracked sorghum bait.
	San Jose Scale	Qld, NSW, WA only	–	100 mL (2% Miscible oil may be added to the dormant spray)		Dormant Period: Apply as late as possible ensuring thorough coverage of all branches. Seasonal Period: Apply to coincide with crawler activity in mid-late November and later if necessary. Ensure thorough coverage of all branches, foliage and fruit. Note: Some fruit marking may occur if high volume spraying is carried out under hot, dry conditions.
Strawberries	Field Crickets, Mole Crickets	Qld, WA only	100 mL/10 kg bran bait	–	–	Apply in recently ratooned strawberry patches or newly planted runners when damage or pest populations indicate. Broadcast, preferably in late afternoon, to base of plants and inter-row-space. See General Instructions on preparation of bran baits.
Tomatoes	Green Vegetable Bug	Tas, SA, WA only	1.5 L	150 mL	3 days	Spray at first sign of bug activity.
	Green Peach Aphid	Qld, Vic, Tas, SA, WA only	1 L	100 mL		Spray when aphids are seen. Large Plants: Use 1000 L/ha.
	False Wireworm (<i>Gonocephalum</i> spp.)	Qld, WA only	700 mL	70 mL		Apply as a band spray at least 10 cm wide into the open furrow at planting. Spray the entire furrow width using a nozzle directly behind the planting line. Use a minimum spray volume of 20 L/ha.

CROP	INSECT	STATE	RATE		WHP	CRITICAL COMMENTS
			VOL/HA	VOL/100 L		
Tomatoes – <i>continued</i>	Tomato Grub (<i>Helicoverpa armigera</i>)	Qld, NSW, Vic, WA only	1.5-2 L	150-200 mL	3 days	Spray on 7-10 day schedule commencing at flowering. Use high rate under heavy pest pressure.
	Native Budworm (<i>Helicoverpa punctigera</i>)	Tas, WA only				
Vegetables	Wingless Grasshopper	NSW, Vic, Tas, SA, WA only	500 mL	50 mL	Tomatoes 3 days	Spray area of crop infested with grasshoppers. Apply also as a barrier across the line of advance when grasshoppers are invading the crop.
Young Plants of Vegetables	Cutworm (<i>Agrotis</i> spp.)	All States	700 mL	70 mL	Cole Crop 5 days	Apply immediately infestation is observed. Increase concentration to compensate if application is below 100 L/ha. Spray should cover soil out to at least 20 cm on both sides of row crop. Re-treat as necessary.
	Field Crickets (<i>Telegryllus commodus</i>), Mole Crickets (<i>Gryllotalpha</i> spp.)	Qld, WA only	100 mL/10 kg bran bait	–	–	Apply as pest population indicates. See General Instructions on preparation of bran baits.
CROP	INSECT	STATE	RATE VOL/HA		WHP	CRITICAL COMMENTS
Cereals, pasture, forage crops	Southern Armyworm, Common Armyworm	All States	700 or 900 mL		Cereals 10 days Grazing 2 days	Spray over total crop area when infestation is widespread. When pests are moving as an “army” treat a broad strip over and in advance of the infestation. Late stage instar: Use higher rate when larvae 3 cm in length. Apply follow-up treatment as required.
		Cereals	Pasture Webworm	NSW, Vic, Tas, SA only		
	Pasture Webworm	WA only	300 mL			Pre-plant: Apply with the label rate of an approved tillage herbicide to foliage prior to any cultivation. Post-emergence: Apply at first sign of damage. Apply with ground-rig boom, mister or by air.
Cereals, pasture young plants of oil seeds	Cutworm	Qld, NSW, Tas, WA only	900 mL in a minimum of 100 L water		Cereals 10 days Grazing 2 days	Apply immediately infestation is observed. Apply follow-up treatments as required.
		Vic only	700 mL in a minimum of 100 L water			

CROP	INSECT	STATE	RATE VOL/HA	WHP	CRITICAL COMMENTS
Cereals, pasture, oil seeds	Cutworm (<i>Agrotis munda</i> and <i>A. infusa</i>)	SA, WA only	700 mL in a minimum of 100 L water	Cereals 10 days Grazing 2 days	Apply immediately infestation is observed. Apply follow-up treatments as required.
Cereals	Cereal curculio	SA, WA only	120 mL/100 kg seed	N/A	Apply as a seed dressing just prior to sowing through an accurately calibrated applicator. Note: A sowing rate of 95 kg/ha (min) is necessary to ensure economic responses are achieved.
Cereals, pasture, forage crops	Spur-throated Locust	Qld, NSW, Vic, WA only	1.25 or 1.5 L	Cereals 10 days Grazing 2 days	Spray areas of crop or pasture infested with locusts. Apply spray to trees or roosting sites to control swarming adult locusts. Late stage hoppers and adults: Use higher rate.
	Australian Plague Locust	Vic only	560 mL		Adults: Spray areas of crop or pasture infested with locusts.
			350 mL		
	SA only	560 mL	Hoppers: Spray a swath in advance of marching band and then spray along the dense marching front. Continue spraying until all hoppers have been contacted.		
		Qld, NSW, WA only	350 mL		Adults: Spray areas of crop or pasture infested with locusts. Hoppers: Spray a swath in advance of marching band and then spray along the dense marching front. Continue spraying until all hoppers have been contacted.
	Migratory Locust	Qld, WA only			Spray areas of crop, trees and roosting sites infested with locust.
	Blue Oat Mite	All States	140 mL		
	Redlegged Earth Mite	NSW, Vic, Tas, SA, WA only	140 mL		Spray when pests appear in large numbers, 3-6 weeks after autumn rains. Re-spray as necessary. Avoid spraying when pests are sheltering. Spray when at least 2.5 cm cover of pasture or crop is present. DO NOT spray if rain is imminent.
Lucerne Flea		70 mL			
Cereals, pasture, oil seeds	Wingless Grasshopper	NSW, Vic, Tas, SA only	500 mL	Cereals 10 days Grazing 2 days	Spray area of crop or pasture infested with grasshoppers. Apply also as a barrier across the line of advance, when grasshoppers are invading the crop.

CROP	INSECT	STATE	RATE VOL/HA	WHP	CRITICAL COMMENTS
Field peas, broad beans, chickpeas, lupins, lucerne, lucerne pastures and clover seed crops. Rapeseed, linseed, safflower, wheat, oats, barley, rye, triticale. Improved annual pastures, establishing perennial pastures	Blue Oat Mite, Redlegged Earth Mite	NSW, WA only	140-300 mL	Cereals 10 days Grazing 2 days	Apply as a ground spray immediately prior to seedling emergence using sufficient water to give good coverage. If mite activity is severe, also spray headlands and surrounding vegetation prior to seedling emergence.
Cotton (young plants)	Cutworm	Qld, NSW, WA only	900 mL in a minimum of 100 L water	DO NOT harvest for 4 weeks after application. DO NOT graze or cut for stockfood for 4 weeks after application.	Apply immediately infestation is observed. Apply follow-up treatments as required.
Cotton	Southern Armyworm, Common Armyworm	Qld, NSW, WA only	700 or 900 mL	DO NOT harvest for 4 weeks after application. DO NOT graze or cut for stockfood for 4 weeks after application.	Spray over total crop area when infestation is widespread. When pests are moving as an "army" treat broad strip over and in advance of the infestation. Late stage instar: Use higher rate when larvae 3 cm in length. Apply follow-up treatments as required.

CROP	INSECT	STATE	RATE VOL/HA	WHP	CRITICAL COMMENTS
Cotton – <i>continued</i>	Pink Spotted Bollworm Moth	Qld, WA only	1 L	DO NOT harvest for 4 weeks after application. DO NOT graze or cut for stockfood for 4 weeks after application.	Apply when 10-15 moths are trapped on two consecutive nights. This prevents infestation of bolls by larvae.
	Spur Throated Locust	Qld, NSW, WA only	1.25 or 1.5 L		Spray areas of crop infested with locusts. Apply spray to trees or roosting sites to control swarming adult locusts. Late stage instar: Use higher rate.
	Wingless Grasshopper		500 mL		Spray areas of crop infested with grasshoppers. Apply also as a barrier across the line of advance when grasshoppers are invading the crop.
	Cotton Aphid		300 or 400 mL		Apply when pests first appear. Re-spray as indicated by field inspection. Use higher rate for higher populations.
	Cotton Flea Beetle, Red Shouldered Leaf beetle		900 mL or 1.5 L		Apply when pests are present. Use higher rate under heavy pest pressure.
	Springtails		300 mL		Spray when large numbers of pests occur and damage is evident. Re-spray as necessary.
	Migratory Locust	Qld, WA only	350 mL		Spray areas of crop, trees and roosting sites infested with locusts.
	Wireworm, False Wireworm	Qld, NSW, WA only	In-furrow: 5 to 15 mL/100 m row or 500 mL to 1.5 L/ha for row spacing of 1 metre		Use higher rate with extreme population numbers. See General Instructions on soil application.
Lucerne (young plants)	Cutworm	Qld, NSW, Tas, WA only	900 mL in a minimum of 100 L water	Grazing 2 days	Apply immediately infestation is observed. Apply follow-up treatments as required.
		Vic only	700 mL in a minimum of 100 L water		
	Cutworm (<i>Agrotis munda</i> and <i>A. infusa</i>)	SA, WA only			
Lucerne	Webspinner Caterpillar	Qld, NSW, WA only	700 mL	Grazing 2 days	Spray when pests appear.
	Lucerne Leafroller		300 or 400 mL		Apply when pests first appear. Late stage instar: Use higher rate when larvae 1.5 cm in length are present and/or under heavy pest pressure.

CROP	INSECT	STATE	RATE VOL/HA	WHP	CRITICAL COMMENTS
Lucerne and medics in pasture and forage crops	Spotted Alfalfa Aphid, Bluegreen Aphid	NSW only	200 or 300 mL	Grazing 2 days	Spray when pests first appear. Use the higher rate when large numbers of aphids are invading the crop. Seedling lucerne, medics: Apply when 1-2 aphids/plant are observed. Established lucerne, medics: Apply when 20-40 aphids/stem are observed.
		Qld, Vic, Tas, SA, WA only			
	Pea Aphid	Qld, NSW, Vic, Tas, SA, WA only			
	Sitona Weevil	NSW, Vic, Tas, SA, WA only	350 mL		Apply October to December, or in autumn when adults occur in damaging numbers.
Maize	African Black Beetle	NSW, WA only	20 mL/100 m of row or 2 L/ha for row spacing of 1 metre	N/A	Apply at sowing as a 15-20cm band spray. For best results spray nozzles should be in front of press wheels on planter. Press wheels assist in establishment.
Maize, soybeans, sunflower	False Wireworm, Cockroaches, Field Crickets	Qld, WA only	100 mL + 125 mL sunflower oil/2.5 kg cracked wheat or cracked sorghum bait/ha		Apply at planting of crop. See General Instructions on preparation of cracked wheat or sorghum bait.
Maize, sunflower	Wireworm, False Wireworm	Qld, NSW, WA only	In-furrow: 5 to 15 mL/100 m row or 500 mL to 1.5 L/ha for row spacing of 1 metre		Use higher rate with extreme population numbers. See General Instructions on soil application.
Pasture	Lawn Armyworm		700 mL	Grazing 2 days	Spray over total crop area when infestation is widespread. When pests are moving as an "army" treat as a broad strip over and in advance of the infestation. Apply follow-up treatments as required.
	Sod Webworm	Qld, WA only			Spray as early as possible once pests appear. Apply with ground-rig boom or mister. Re-spray as necessary.
	Blackheaded Pasture Cockchafer	NSW, Vic, Tas, SA, WA only	900 mL		Treat when larvae are actively foraging as indicated by numerous piles of fresh soil, or casts on the surface. This usually occurs after showers of rain following short dry spells. Apply by ground-rig boom.
Pasture, forage crops	Underground Grass Grub	NSW, Vic, SA, WA only			Apply when caterpillars are actively feeding. Spray before noticeable damage has occurred. Graze pasture prior to spraying to ensure penetration of spray into the pasture sward.
	Brown Pasture Looper	NSW, Vic, Tas, SA, WA only	700 mL		Spray at first sign of pasture infestation.
	Pasture Webworm	NSW, Vic, Tas, SA, WA only			Spray at first sign of damage. Apply with ground-rig boom, mister or by air.

CROP	INSECT	STATE	RATE VOL/HA	WHP	CRITICAL COMMENTS
Rapeseed	Wireworm, False Wireworm	Qld, WA only	1 or 1.5 L/ha	N/A	Apply as a broadcast application. Use higher rate with extreme population numbers. See General Instructions on soil application.
Rice	Bloodworm	NSW, WA only	60 or 150 mL	10 days	Use higher rate when water more than 15 cm or amount of decaying plant material is high.
	Brown Planthopper	Qld, WA only	1.5 L		Apply when pest numbers reach 1-2 per tiller and repeat as necessary.
Sorghum Note: DO NOT use on Sugar Drip or Alpha sorghum. Check new varieties before applying to entire crop.	Southern Armyworm, Common Armyworm	Qld, NSW, WA only	700 or 900 mL	Grazing 2 days Harvest 2 days	Spray over total crop area when infestation is widespread. When nests are moving as an "army" treat a broad strip over and in advance of the infestation. Late stage instar: Use higher rate when larvae 3 cm in length. Apply follow-up treatments as required.
	Cutworm		900 mL in a minimum of 100 L water		Apply immediately infestation is observed. Apply follow-up treatments as required.
	Spur-throated Locust		1.25 or 1.5 L		Spray areas of crop infested with locusts. Apply spray to trees or roosting sites to control swarming adult locusts. Late stage instar: Use higher rate.
	Australian Plague Locust		350 mL		Adults: Spray areas of crop infested with locusts. Hoppers: Spray a swath in advance of marching band and the dense marching front. Continue spraying until all hoppers have been contacted.
Sorghum Note: DO NOT use on Sugar Drip or Alpha sorghum. Check new varieties before applying to entire crop.	Migratory Locust	Qld, WA only	350 mL	Grazing 2 days	Spray areas of crop, trees and roosting sites infested with locusts.
	Sorghum Midge	Qld, NSW, WA only	500 mL	Harvest 2 days	Check regularly (preferably in the morning) and apply when 1-2 midge per head are present from first emergence of boot to pollen shedding. With repeated attack, spray at intervals of 5 days or less.
	Wireworm, False Wireworm	Qld, NSW, WA only	In-furrow: 5 to 15 mL/100 m row or 500 mL to 1.5 L/ha for row spacing of 1 metre	N/A	Use high rate with extreme population numbers. See General Instructions on soil application.
	Corn Aphid		500 mL	Grazing 2 days	Apply when damaging populations of aphids occur.
	False Wireworm, Cockroaches, Field Crickets	Qld, WA only	100 mL + 125 mL Sunflower oil/2.5 kg cracked wheat or cracked sorghum bait/ha	Harvest 2 days	Apply at planting of crop. See General Instructions on preparation of cracked wheat or cracked sorghum bait.

CROP	INSECT	STATE	RATE VOL/HA	WHP	CRITICAL COMMENTS	
Sugarcane	Southern Armyworm, Common Armyworm	Qld, WA only	700 or 900 mL	7 days Grazing 2 days	Spray over total crop area when infestation is widespread. When pests are moving as an "army" treat a broad strip over and in advance of the infestation. Late stage instar: Use higher rate when larvae 3 cm in length. Apply follow-up treatments as required.	
	Spur-throated Locust		1.25 or 1.5 L		Spray areas of crop infested with locusts. Apply spray to trees or roosting sites to control swarming adult locusts. Late stage hoppers and adults: Use higher rate.	
	Australian Plague Locust, Migratory Locust		350 mL		Adults: Spray areas of crop infested with locusts. Hoppers: Spray in a swath in advance of marching band and then spray along the dense marching front. Continue spraying until all hoppers have been contacted. Spray areas of crop, trees and roosting sites infested with locusts.	
	Symphylids		2 L		Apply as a low pressure (less than 35kPa) or gravity feed spray onto the plant sett and adjacent to soil, at the point of exit from the rear of the planting machine, immediately prior to soil cover being brought in over the sett.	
	Sugarcane Wireworm		Qld, NSW, WA only		1.5 L	Apply at planting or ratooning. Apply as a low pressure (less than 35kPa) or gravity feed spray onto the plant sett and adjacent soil through a nozzle placed above the planter boards. Repeat treatment within 12 weeks of planting if black beetles re-occur.
	African Black Beetle, Black Beetle		NSW, WA only		1.5 L	
Tobacco	Wireworm, False Wireworm, Cutworm	Vic, WA only	3 L		Apply as a pre-plant spray to cultivated soil surface. Incorporate immediately by rotary hoeing to a depth of 10 cm.	
Turf (Except for Home Garden, Domestic and Public Access areas)	Funnel Ant	Qld, NSW, ACT only	2.0 L/ha or 5 mL/5 L spot spray	DO NOT feed turf/lawn clippings from area to poultry or livestock.	For spot spraying, apply 30 mL spray to each mound. In areas of high density, a repeat application may be necessary to ensure thorough mound coverage. DO NOT GRAZE TREATED TURF OR FEED TREATED GRASS CLIPPINGS TO ANIMALS.	
	African Black Beetle	Qld, NSW, ACT, Vic, WA only	6.0 L/ha or 60 mL/100 m ²		Apply to lawn when pests appear. Water in immediately after application.	
	Argentine Stem Weevil	NSW, ACT, Vic, Tas, SA, WA only	4.0 L/ha or 40 mL/100 m ²		Lightly water following application. Apply as late in the day as possible.	

CROP	INSECT	STATE	RATE VOL/HA	WHP	CRITICAL COMMENTS
Turf (Except for Home Garden, Domestic and Public Access areas) – <i>continued</i>	Blackheaded Pasture Cockchafer		900 mL/ha or 9 mL/100 m ²	DO NOT feed turf/lawn clippings from area to poultry or livestock.	Use sufficient water to give even coverage. Apply as late in the day as possible.
	Brown Pasture Looper		700 mL/ha or 7 mL/100 m ²		Apply when pests first appear.
	Pasture Webworm	Qld, NSW, ACT, Vic, SA, WA only			Spray at first sign of damage. Apply with ground-rig boom or mister. Apply as late in the day as possible.
	Lawn Armyworm				Spray over total lawn area when infestation is present. When pests are moving, treat strip over and in advance of infestation. Apply follow-up treatments as required.
	Sod Webworm		All States		Apply as soon as pests appear. Repeat as required.
	Underground Grass Grub	NSW, ACT, Vic, SA, WA only	900 mL/ha or 9 mL/100 m ²		Apply when caterpillars are actively feeding. Spray before noticeable damage has occurred. Apply as late in the day as possible.
	Crickets	Qld only	20 mL/20 L		Apply as required preferably late in the day.

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

WITHHOLDING PERIOD: DO NOT GRAZE OR CUT CEREALS, PASTURES OR FORAGE CROPS FOR STOCK FOOD FOR 2 DAYS AFTER APPLICATION.

COTTON: DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION.

DO NOT GRAZE OR CUT FOR STOCKFOOD FOR 4 WEEKS AFTER APPLICATION.

DO NOT SPRAY THE FOLLOWING CROPS LATER THAN THE NUMBER OF DAYS SHOWN, BEFORE HARVEST:

MANGO: 21 DAYS

BANANA, CITRUS, GRAPE VINES, KIWIFRUIT, POME FRUIT, STONE FRUIT,

ASPARAGUS: 14 DAYS

CEREAL GRAIN CROPS: 10 DAYS

AVOCADO, SUGARCANE: 7 DAYS

COLE CROPS, CUCURBITS: 5 DAYS

TOMATOES: 3 DAYS

SORGHUM GRAIN CROPS: 2 DAYS

GENERAL INSTRUCTIONS

Before opening carefully read Directions for use, Precautionary Statements, Safety Directions, First Aid Instructions and attached leaflet.

MIXING

Measure out the required amount of ACP Chlorpyrifos 500 and add directly to the spray vat with agitation.

INSECTICIDE RESISTANCE WARNING

For insecticide resistance management ACP Chlorpyrifos 500 Insecticide is a Group 1B insecticide.

Some naturally occurring insect biotypes resistant to the product and other Group 1B insecticides

GROUP 1B INSECTICIDE

may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if the product or other Group 1B insecticides are used repeatedly. The effectiveness of the product on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Australis Crop Protection Pty Ltd accepts no liability for any losses that may result from the failure of ACP Chlorpyrifos 500 Insecticide to control resistant insects.

ACP Chlorpyrifos 500 Insecticide may be subject to specific resistance management strategies. For further information contact your local supplier, Australis Crop Protection Pty Ltd representative or local agricultural department agronomist.

RE-ENTRY PERIODS

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.

Cotton Chippers: DO NOT allow entry into treated areas until spray deposits have dried. After this time, wear shoes or boots, socks, long trousers, long sleeved shirt, gloves and hat.

PROTECTION OF LIVESTOCK

Dangerous to bees. DO NOT spray any plants in flower while bees are actively foraging. DO NOT feed grass clippings from treated area to poultry and animals.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS 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 10 days (unless specifically recommended in the directions for use). 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” of the “Pilots and Operators Manual” should be applied. 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 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
Cotton (aerial application)	300
Other crops (aerial application)	100

DO NOT apply if heavy rains or storms that are likely to cause surface run-off 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 runoff water from treated paddocks to enter adjacent areas or water bodies. Run-off contaminated by irrigation events (tailwater) and a 25 mm rainstorm should be captured on farm for two days after application.

DO NOT contaminate ponds, waterways and drains with this chemical or used containers.

STORAGE AND DISPOSAL

Store in the closed original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.

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 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

Product is poisonous if absorbed by skin contact, inhaled or swallowed. Repeated exposure may cause allergic disorders. Repeated minor exposure may have a cumulative poisoning effect. Will irritate eyes and skin. Avoid contact with eyes and skin. DO NOT inhale vapour or spray mist. When opening the container, preparing and using the prepared spray, chemical resistant clothing buttoned to the neck and wrist, a washable hat, elbow length PVC gloves, goggles, chemical resistant footwear, half facepiece respirator with combined dust and gas cartridge. If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product on skin, immediately wash area with soap and water. If product gets in eyes, wash it out immediately with water. After use and before eating, drinking, 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. Obtain an emergency supply of Atropine tablets.

FIRST AID

If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre (Australia Phone: 13 11 26 or New Zealand 0800 764 766) or a doctor at once. Remove any contaminated clothing and wash skin thoroughly.

If swallowed, DO NOT induce vomiting, give a glass of water. Activated charcoal may be advised. Give atropine as instructed.

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) which is available from Australis Crop Protection upon request.

CONDITIONS OF SALE

The use of ACP Chlorpyrifos 500 Insecticide being beyond the control of the manufacturer no warranty expressed or implied is given by Australis Crop Protection Pty Ltd regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Australis Crop Protection Pty Ltd accepts no responsibility for any consequence whatsoever resulting from the use of this product.