

AlphaCyper

INSECTICIDE

DIRECTIONS FOR USE:

RESTRAINTS: DO NOT apply if rain is expected within 6 hours of application.
Asparagus – DO NOT apply more than 6 times per season.

Note: This product is ineffective against synthetic pyrethroid resistant *Helicoverpa armigera* larvae longer than 5 mm. All *Helicoverpa armigera* in NSW and Qld should be treated as being resistant to synthetic pyrethroids. Refer to RESISTANCE MANAGEMENT under GENERAL DIRECTIONS. This product is ineffective against synthetic pyrethroid-resistant *Plutella xylostella*.

CROP	INSECT / PESTS	STATE	RATE	WHP	CRITICAL COMMENTS
Asparagus (Not for use on White Asparagus)	Garden Weevil (<i>Phlyctinus callosus</i>)	WA only	100 mL/100 L	1 day	Apply in Spring after weevil emergence, at up to 500 L spray solution per hectare. Day time spraying is effective but superior control may be achieved if spray is applied at night. Repeat applications as required, depending on pest pressure. Application to fern, after spear harvest may reduce carry-over of Garden Weevil for the following season. Caution: Not for use on White Asparagus, there have been reports of some phytotoxicity when using AlphaCyper.
Banksias	Banksia Moth (<i>Danima banksiae</i>)	WA only	20 mL/100 L	–	Apply on a regular program at 2-week intervals at early flower development. Commence spraying when blooms are immature and continue until flowers are fully developed.
Broccoli, Brussels sprouts, Cabbages, Cauliflowers, Chinese cabbage, Kale, Kohlrabi, Turnips	Cabbage Moth (<i>Plutella xylostella</i>), Cabbage White Butterfly (<i>Pieris rapae</i>), Native Budworm (<i>Helicoverpa punctigera</i>), Cotton Bollworm (<i>Helicoverpa armigera</i>)	All States	LOW VOLUME 400 mL/ha HIGH VOLUME 50 mL/100 L	1 day (Harvest)	Apply according to pest incidence. When reinfestation is continuous, treatment every 7-10 days may be required. Add FARMALINX WetDrop Wetter at 30 mL per 100 L of spray mixture. LOW VOLUME Ground Rig Application: Apply in 100 to 600 L of water per hectare as a fine spray (ie. A droplet size of 100 to 200 microns). Aerial Application: Apply in 20 to 60 L of water per hectare as a spray of 100 to 150 microns droplet size. HIGH VOLUME Gradually increase the spray volume as the plants grow, from 600 L/ha just after transplanting to 1000 L/ha at maturity. Apply as a medium spray (ie. droplet size of 200 to 400 microns VMD). <i>Helicoverpa armigera</i> in NSW and Qld. Follow the application directions for the pest above. Apply as required according to pest incidence. Thorough and frequent crop checks are essential. Preferably apply to eggs. Apply to larvae only if they are less than 5 mm long.
	Cluster Caterpillar (<i>Spodoptera litura</i>)	Qld, NSW, ACT, Vic, WA, NT only			
Canola	Native Budworm (<i>Helicoverpa punctigera</i>)	NSW, Vic, Tas, WA only	200 or 300 mL/ha	21 days (cutting for harvest or stockfeed or grazing)	DO NOT apply more than a total 400 mL/ha per season to any one crop. Inspect the crop regularly during and immediately after flowering. Apply when damaging pest numbers first appear on the crop and repeat if necessary. For aerial application, use a total volume of 30-35 L/ha and apply in the cooler part of the day. Use the higher rate if larvae longer than 10 mm are present.
	Tobacco Looper (<i>Chrysodeixis argentifera</i>)	NSW, Vic, Tas, SA, WA only			
	Vegetable Weevil (<i>Listroderes difficiilis</i>)	NSW, ACT, Vic, Tas, SA, WA only	400 mL/ha		Crops should be inspected as they emerge. Border sprays are required to control invading adults. FARMALINX AlphaCyper Insecticide should be applied when cotyledons and leaves are being eaten. Repeat as necessary.
	Cabbage White Butterfly (<i>Pieris rapae</i>), Cabbage Moth (<i>Plutella xylostella</i>)	NSW, ACT, Vic, Tas, SA, WA only	400 mL/ha		
	Redlegged Earth Mite (<i>Halotydeus destructor</i>)	All States except NT and Qld	100 mL/ha		Pre-emergence: Apply by ground rig only. Treat infested paddocks after sowing but prior to crop emergence when soil is moist. Monitor Redlegged Earth Mite numbers and re-treat if necessary.
	Redlegged Earth Mite (<i>Halotydeus destructor</i>), Blue Oat Mite (<i>Penthaleus major</i>)		50 mL/ha		Post-emergence: Apply when mite numbers reach damaging levels. DO NOT apply as a pre-emergence treatment. DO NOT apply as a ULV application.
Chickpeas	Native Budworm (<i>Helicoverpa punctigera</i>)	WA only	160 mL/ha	21 days (harvest)	Apply to open, less dense crops when numbers of newly hatched larvae first appear on the crop and repeat as necessary.
		NSW, Vic, SA, WA only	200 or 300 mL/ha	35 days (grazing)	Apply when pest numbers reach damaging levels and repeat if necessary. Use the higher rate if larvae longer than 10 mm are present. Best results will be obtained by spraying at egg hatch.
	Redlegged Earth Mite (<i>Halotydeus destructor</i>)	NSW, Vic, Tas, SA, WA only	100 mL/ha		Pre-emergence: Apply by ground rig only. Treat infested paddocks after sowing but prior to crop emergence when soil is moist. Monitor Redlegged Earth Mite numbers and re-treat if necessary. DO NOT apply as a ULV application.
	Redlegged Earth Mite (<i>Halotydeus destructor</i>), Blue Oat Mite (<i>Penthaleus major</i>)	NSW, Vic, Tas, SA, WA only	50 mL/ha		Apply when mite numbers reach damaging levels. DO NOT apply as a pre-emergence treatment. DO NOT apply as a ULV application.
	Cutworm (<i>Agrotis</i> spp.)		75 mL/ha		Check emerging and establishing crops in the late afternoon and evening for caterpillars crawling on the soil surface and feeding on the seedlings. Spray in the late afternoon or evening.

CROP	INSECT / PESTS	STATE	RATE	WHP	CRITICAL COMMENTS
Cotton	Native Budworm (<i>Helicoverpa punctigera</i>)	Qld, NSW, WA, NT only	Apply as indicated by field checks using rates appropriate for the infestation level determined. Application should be timed to coincide with egg hatching and before larvae are in protected feeding sites.		
			300 mL/ha	14 days (harvest)	Apply when there are up to 75 eggs and/or up to 5 larvae less than 5 mm long per 100 terminals.
			400 mL/ha		Apply when there are up to 150 eggs and/or up to 10 larvae less than 5 mm long per 100 terminals and/or when larvae between 5 and 10 mm are present.
			500 mL/ha		Apply when there are more than 150 eggs and/or more than 10 larvae less than 5 mm long per 100 terminals and/or when larvae longer than 10 mm are present.
	Cotton Bollworm (<i>Helicoverpa armigera</i>)	Qld, NSW, WA, NT only	Preferably apply to eggs. Apply to larvae only if they are less than 5 mm long.		
			300 mL/ha	14 Days (harvest)	Apply when there are up to 75 eggs and/or more than 5 larvae less than 5 mm long per 100 terminals.
			400 mL/ha		Apply when there are up to 150 eggs and/or up to 10 larvae less than 5 mm long per 100 terminals.
			500 mL/ha		Apply when there are more than 150 eggs and/or more than 10 larvae less than 5 mm long per 100 terminals.
	Rough Bollworm (<i>Earias huegeli</i>)		300 or 400 mL/ha		Apply when an average of 2 or more larvae are present per 100 bolls. It is essential to detect and treat infestations in the early stages before larvae are established or concealed in bolls deep in the canopy. Use the higher rate if larvae longer than 10 mm are present. Best results will be obtained by applying at egg hatch.
Cereals (Winter)	Cutworm (<i>Agrotis</i> spp.)	NSW, ACT, WA only	75 mL/ha	7 days (harvest) 14 days (stubble grazing)	Check emerging and establishing crops in the late afternoon and evening for caterpillars crawling on the soil surface and feeding on the seedlings. Spray in the late afternoon or evening. In NSW, do NOT apply before May or after August. In Qld, use the higher rate when the infestation is severe, or when there are larvae longer than 10 mm, or when longer residual activity is required.
		Qld only	75 or 150 mL/ha		
	Webworm (<i>Hednota</i> spp.)	NSW, Vic, SA, WA only	75 mL/ha		Pre planting: May be applied with knockdown herbicides prior to planting. Apply from the last week in May when the larvae have emerged. DO NOT apply to dense pasture. All pasture should be closely grazed prior to application to ensure adequate spray penetration. Apply in a minimum of 100 L of water per hectare. Repeat as required. Post crop emergence: Inspect crop regularly from emergence and apply at first sign of pest activity. Repeat as required.
	Common Armyworm (<i>Mythimna convecta</i>), Southern Armyworm (<i>Persectania ewingii</i>)	All States	240 mL/ha		Apply before "head lopping" occurs and when there are 2 or more larvae per square metre. Spray in the cool of the day (usually late afternoon) when larvae are most active. Ensure the spray penetrates the crop. This rate is effective on larvae up to 20 mm in length. Monitor crop closely and re-treat if necessary. Poor control may occur in crops that have lopped. See application section for water rates.
	Redlegged Earth Mite (<i>Halotydeus destructor</i>)	NSW, ACT, Vic, Tas, SA, WA only	100 mL/ha		Pre-emergence: Apply by ground rig only. Treat infested paddocks after sowing but prior to crop emergence when soil is moist. Monitor Redlegged Earth Mite numbers and re-treat if necessary.
	Redlegged Earth Mite (<i>Halotydeus destructor</i>), Blue Oat Mite (<i>Penthaleus major</i>)		50 mL/ha		Apply when mite numbers reach damaging levels. Spray seedling crops if silvering or whitening (bleaching) of the leaves is causing a reduction in crop growth. If possible, spray on a calm, mild morning when mites are actively feeding on crop leaves. DO NOT apply as a pre-emergence treatment.
	Aphids (<i>Rhopalosiphum</i> spp.) (Barley Yellow Dwarf Virus vectors)	NSW, ACT, Vic, Tas, SA, WA only	125 mL/ha		Post-emergence: To control aphids, sprays should be applied at 3 and 7 weeks after emergence to reduce aphid colonisation and the spread of Barley Yellow Dwarf Virus. This will also reduce the effect of feeding aphid damage.
Eucalypt plantations	Adults and larvae of Tasmanian Eucalyptus Leaf Beetle (<i>Chrysophtharta bimaculata</i>)	Tas only	250 mL/ha	–	Apply by fixed wing aircraft or by helicopter using hydraulic or Micronair equipment, to the crowns of eucalypt trees. Micronair application in 5 litres of water/ha has proved effective. Apply before insect damage causes severe defoliation. Treatment will control small and large larvae as well as adult beetles.
Faba Beans	Native Budworm (<i>Helicoverpa punctigera</i>)	WA only	160 mL/ha	4 weeks (harvest)	Apply to open, less dense crops when numbers of newly hatched larvae first appear on the crop and repeat as necessary.
		NSW, Vic, Tas, SA, WA only	200 or 300 mL/ha	35 days (grazing)	Apply when pest numbers reach damaging levels and repeat if necessary. Use the higher rate if larvae longer than 10 mm are present. Best results will be obtained by spraying at egg hatch.
	Redlegged Earth Mite (<i>Halotydeus destructor</i>)	NSW, Vic, Tas, SA, WA only	100 mL/ha		Pre-emergence: Apply by ground rig only. Treat infested paddocks after sowing but prior to crop emergence when soil is moist. Monitor Redlegged Earth Mite numbers and re-treat if necessary. DO NOT apply as a ULV application.
	Redlegged Earth Mite (<i>Halotydeus destructor</i>), Blue Oat Mite (<i>Penthaleus major</i>)	NSW, Vic, Tas, SA, WA only	50 mL/ha		Apply when mite numbers reach damaging levels. DO NOT apply as a pre-emergence treatment. DO NOT apply as a ULV application.
	Cutworm (<i>Agrotis</i> spp.)		75 mL/ha		Check emerging and establishing crops in the late afternoon and evening for caterpillars crawling on the soil surface and feeding on the seedlings. Spray in the late afternoon and evening.

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Field peas	Native Budworm (<i>Helicoverpa punctigera</i>)	WA only	160 mL/ha	4 weeks (harvest)	Apply to open, less dense crops when numbers of newly hatched larvae first appear on the crop and repeat as necessary.
		NSW, Vic, Tas, SA, WA only	200 or 300 mL/ha		Apply when pest numbers reach damaging levels and repeat if necessary. Use the higher rate if larvae longer than 10 mm are present. Best results will be obtained by spraying at egg hatch.
	Pea Weevil (<i>Bruchus pisorum</i>)	NSW, ACT, Vic, SA, WA only	160 or 200 mL/ha		Apply during flowering prior to egg laying when the adult weevil population reaches one or more per 25 sweeps of a sweep net. Use the higher rate for longer residual protection.
	Cutworm (<i>Agrotis</i> spp.)	NSW, ACT, SA, WA only	75 mL/ha		Check emerging and establishing crops in the late afternoon and evening for caterpillars crawling on the soil surface and feeding on the seedlings. Spray in the late afternoon and evening.
	Redlegged Earth Mite (<i>Halotydeus destructor</i>)	NSW, Vic, Tas, SA, WA only	100 mL/ha		Pre-emergence: Apply by ground rig only. Treat infested paddocks after sowing but prior to crop emergence when soil is moist. Monitor Redlegged Earth Mite numbers and re-treat if necessary. DO NOT apply as a ULV application.
	Redlegged Earth Mite (<i>Halotydeus destructor</i>), Blue Oat Mite (<i>Penthaleus major</i>)	NSW, Vic, Tas, SA, WA only	50 mL/ha		Post-emergence: Apply to established crops when mite numbers reach damaging levels. DO NOT apply as a pre-emergence treatment. DO NOT apply as a ULV application.
Grapevines (non-bearing)	Pink Cutworm (<i>Agrotis munda</i>), Apple Weevil (<i>Curculio Beette</i>) (<i>Otiorynchus cribricollis</i>), Garden Weevil (<i>Phlyctinus callosus</i>)	NSW, Vic, Tas, SA, WA only	100 mL/ 100 L	–	Monitor young vines during Spring and early Summer and apply at the first signs of leaf damage. Spray the leaves, canes and the soil around each vine to a diameter of 30 cm. 70-80 mL of dilute spray should be sufficient for each vine. If pest infestation persists, a second application may be required after three weeks.
Lettuce	<i>Helicoverpa</i> spp.	All States	LOW VOLUME 400 mL/ha HIGH VOLUME 50 mL/100L	3 days (harvest)	Thoroughly and regularly check the crop. Apply at the first sign of pest activity. Preferably apply to eggs. Apply to larvae only if they are less than 5 mm long. Repeat according to pest incidence.
Linola	Native Budworm (<i>Helicoverpa punctigera</i>)	NSW, Vic, Tas, SA, WA only	160 or 200 mL/ha	12 weeks (harvest)	DO NOT apply more than a total 400 mL/ha per season to any one crop. Inspect the crop regularly during and immediately after flowering. Apply when damaging pest numbers first appear on the crop. For aerial application, apply during the cooler part of the day in a total volume of 30-35 mL/ha. Use the higher rate if larvae longer than 10 mm are present.
Linseed	Native Budworm (<i>Helicoverpa punctigera</i>)	NSW, Vic, Tas, SA, WA only	200 or 300 mL/ha	14 days (harvest)	Inspect the crop regularly during and immediately after flowering. Apply when damaging pest numbers first appear on the crop and repeat if necessary. Use the higher rate if larvae longer than 10 mm are present. Best results will be obtained by spraying at egg hatch.
	Cutworm (<i>Agrotis</i> spp.)	NSW, ACT, Tas, SA, WA only	75 mL/ha		Check emerging and establishing crops in the late afternoon and evening for caterpillars crawling on the soil surface and feeding on seedlings. Spray in the late afternoon and evening.
Lucerne (Seed and forage crops)	Green Mirid (<i>Creontiades dilutus</i>), Native Budworm (<i>Helicoverpa punctigera</i>)	NSW, VIC, Tas, SA, WA only	160 mL/ha	14 days (grazing or cutting for stockfeed)	DO NOT apply more than one application per cut for animal feed. Apply when pest populations reach economically damaging levels. Apply to larvae less than 5 mm in length.
Lupins	Native Budworm (<i>Helicoverpa punctigera</i>)	NSW, ACT, Vic, SA only	200 or 300 mL/ha	4 weeks (harvest)	Apply when damaging pest numbers first appear on the crop and repeat if necessary. Use the higher rate if larvae longer than 10 mm are present. Best results will be obtained by spraying at egg hatch.
		WA only	120 or 200 mL/ha		Spraying should be timed to precede the first visible damage to the pods. Use the higher rate when the infestation is severe, or when residual activity is required.
	Cutworm (<i>Agrotis</i> spp.)	NSW, ACT, Vic, Tas, SA, WA only	75 mL/ha		Check emerging and establishing crops in the late afternoon and evening for caterpillars crawling on the soil surface and feeding on seedlings. Spray in late afternoon and evening.
	Common Armyworm (<i>Mythimna convecta</i>), Southern Armyworm (<i>Persectania ewingii</i>)	NSW, ACT, WA only	160 mL/ha		Spray in the cool of the day (late afternoon) when larvae are most active.
	Redlegged Earth Mite (<i>Halotydeus destructor</i>)	NSW, Vic, Tas, SA, WA only	100 mL/ha		Pre-emergence: Apply by ground rig only. Treat infested paddocks after sowing but prior to crop emergence when soil is moist. Monitor Redlegged Earth Mite numbers and re-treat if necessary. DO NOT apply as a ULV application.
	Redlegged Earth Mite (<i>Halotydeus destructor</i>), Blue Oat Mite (<i>Penthaleus major</i>)	NSW, Vic, Tas, SA, WA only	50 mL/ha		Post-emergence: Apply to established crops when mite numbers reach damaging levels. DO NOT apply as a pre-emergence treatment. DO NOT apply as a ULV application.
Maize	Corn Earworm (<i>Helicoverpa armigera</i>)	Qld, NSW, ACT, Vic, WA, NT only	300 or 400 mL/ha	7 days (harvest)	Thoroughly and regularly check the crop. Apply from early silking according to pest incidence. Use the higher rate if larvae longer than 10 mm are present. In Qld, NSW and NT, preferably apply to eggs or apply to larvae only if they are less than 5 mm long.
	Native Budworm (<i>Helicoverpa punctigera</i>)	All States			Thoroughly and regularly check the crop. Apply when infestation reaches an economically damaging level and repeat if necessary. Best results will be obtained by applying at egg hatch. Use the higher rate if larvae longer than 10 mm are present.

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Mung beans, Navy beans	Native Budworm (<i>Helicoverpa punctigera</i>)	Qld, NSW, WA, ACT, NT only	300 or 400 mL/ha	7 days (harvest)	Crop checking should be aimed to detect larvae as they hatch. Small larvae are easier to kill than large larvae. Apply when the number of larvae feeding on flowers or pods reach 1 to 2 per metre of row. Repeat as required. Use the higher rate when larvae larger than 10 mm are present or when canopy is dense. Best results will be obtained by spraying at egg hatch.
	Corn Earworm (<i>Helicoverpa armigera</i>)				Thoroughly and regularly check the crop. Apply when the infestation reaches an economically damaging level and repeat as required. Preferably apply to eggs. In Qld and NSW, apply to larvae only if they are less than 5 mm long. Use the higher rate when pest pressure is high.
Pastures (Legume and grass based pastures)	Wingless Grasshopper (<i>Phaulacridium vittatum</i>)	NSW, Vic, Tas, WA only	160 mL/ha	3 days (grazing) 14 days (cut for stockfeed)	DO NOT apply more than a total 320 mL/ha per season. Apply to infested areas and repeat as necessary. Spraying is most effective on newly emerged hoppers before they begin dispersing. Later sprays should be applied before the start of egg laying. Good coverage is essential.
	Brown Pasture Looper (<i>Ciampa arietaria</i>)	NSW, Vic, Tas, SA, WA only	50 mL/ha		Apply when pest infestation reaches an economically damaging level.
	Blackheaded Pasture Cockchafer (<i>Aphodius tasmaniae</i>)	NSW, Vic, Tas, SA, WA only	100 mL/ha		Spraying is most effective when larvae are detected and treated early. Suspect paddocks should be dug after the first substantial rain in April/May and inspected to ensure grubs are present in sufficient numbers to warrant treatment. Spraying after June will give poorer results.
	Redlegged Earth Mite (<i>Halotydeus destructor</i>)	ACT, NSW, Vic, Tas, SA, WA only	100 mL/ha		Pre-emergence: Apply by ground rig only. Treat infested paddocks after sowing but prior to crop emergence when soil is moist. Monitor Redlegged Earth Mite numbers and re-treat if necessary. DO NOT apply as a ULV application.
Pome fruit: apples, pears	Apple Weevil (<i>Otiorynchus cribricollis</i>), Garden Weevil (<i>Phlyctinus callosus</i>)	NSW, Vic, SA, WA only	100 mL/100 L water	14 days (harvest)	Spray approx. 1-2 litres of solution onto the crotch, trunk and the soil at the base of each tree at peak weevil emergence. This is usually late October - late November for garden weevil, and late November - mid December for apple weevil. Monitor weevil emergence using a single sided cardboard trunk band. Continue monitoring after spraying as a second spray may be needed 3-4 weeks later.
	Common Armyworm (<i>Mythimna convecta</i>)	NSW only	200 mL/ha	7 days	DO NOT apply more than a total 400 mL/ha per season to any one crop. Inspect crops regularly for the presence of grubs from flowering onwards. Apply when rice damaging pest numbers first appear. Apply by aircraft in 20-30 litres of water/ha, to drained fields only. Spray in the cool of the day (early morning or late afternoon) when larvae are most active.
Sorghum	Corn Earworm (<i>Helicoverpa armigera</i>), Native Budworm (<i>Helicoverpa punctigera</i>)	Qld, NSW, ACT, WA, NT only	300 or 400 mL/ha	7 days (harvest)	Crop checking should commence when the head emerges from the boot and continue at daily intervals until the end of flowering for midge and at weekly intervals until maturity for <i>Helicoverpa armigera</i> . DO NOT apply to tight headed varieties. Apply when there are 2 or more actively feeding larvae per head, or when numbers are sufficient to cause economic damage. Use the higher rate if longer residual control is required. Preferably apply to eggs. Apply to larvae only if they are less than 5 mm long. Repeat as required.
	Sorghum Midge (<i>Contarinia sorghicola</i>)		100 or 200 mL/ha		Apply when numbers reach 1 to 2 per head, between head emergence and the end of flowering. Repeat as required. Use the higher rate for increased residual protection.
Soybeans	Native Budworm (<i>Helicoverpa punctigera</i>)	Qld, NSW, ACT, WA, NT only	300 or 400 mL/ha	7 days (harvest)	Thoroughly and regularly check the crop. Apply when the number of larvae feeding on flowers plus pods reaches 1 to 2 per metre of row. Repeat as required. Use the higher rate if larvae longer than 10 mm are present. Best results will be obtained by applying at egg hatch.
	Corn Earworm (<i>Helicoverpa armigera</i>)				Thoroughly and regularly check the crop. Apply when numbers are sufficient to cause economic damage. Preferably apply to eggs. In Qld and NSW, apply to larvae only if they are less than 5 mm long. Repeat as required. Use the higher rate when pest pressure is high.

CROP	INSECT / PESTS	STATE	RATE	WHP	CRITICAL COMMENTS
Stone fruit: apricots, nectarines, peaches, plums	Apple Weevil (<i>Otiorynchus cribricollis</i>), Garden Weevil (<i>Phlyctinus callosus</i>)	WA only	100 mL/100 L water	14 days (harvest)	Spray approx. 1-2 litres of solution onto the crotch, trunk and soil at the base of each tree at peak weevil emergence. This is usually late October - late November for garden weevil, and late November - mid December for apple weevil. Monitor weevil emergence using a single sided cardboard trunk band. Continue monitoring after spraying as a second spray 3-4 weeks later may be needed.
Sunflowers			TO PROTECT BEES and ensure adequate pollination, application during flowering should be avoided. If application is necessary at flowering apply early morning or late afternoon when bees are not actively foraging.		
	Native Budworm (<i>Helicoverpa punctigera</i>)	Qld, NSW, ACT, Vic, WA, NT only	300 or 400 mL/ha	21 days (harvest)	Crop checking should be aimed to detect larvae as they hatch. Small larvae are easier to kill than large larvae. Apply when the infestation reaches an average of 2-3 larvae per head or when economic damage is occurring. Repeat as required. Apply before the heads turn downwards to ensure adequate coverage. Use the higher rate if larvae longer than 10 mm are present. Best results will be obtained by applying at egg hatch.
	Corn Earworm (<i>Helicoverpa armigera</i>)				Thoroughly and regularly check the crop. Apply when numbers are sufficient to cause economic damage. Preferably apply to eggs. In NSW and Qld, apply to larvae only if they are less than 5 mm long. Repeat as required. Use the higher rate under heavy pest pressure.
	Grey Cluster Bug (<i>Nysius clevelandensis</i>), Rutherglen Bug (<i>Nysius vinitor</i>)				Apply from budding when adult numbers per plant reach 10 to 15 in dryland crops and 20 to 25 in irrigated crops. After flowering, apply when adult numbers on the face of heads reach 20 to 25. Repeat as required. The higher rate should be used when numbers are very high.
Sweet corn	Native Budworm (<i>Helicoverpa punctigera</i>), Corn Earworm (<i>Helicoverpa armigera</i>)	All States	300 or 400 mL/ha	7 days (Harvest)	Thoroughly and regularly check the crop. The level of cob damage tolerated varies with market requirements. Fresh Market Corn: Apply at 5-8 day intervals, accordingly to pest incidence, from tassel emergence until the silks wither. Processing Corn: Apply from early silking according to pest incidence. Larvae in protected feeding sites within the cob are not effectively controlled. Apply before this situation occurs. Best results will be obtained by applying at egg hatch. Use the higher rate if larvae longer than 10 mm are present. To help contain pyrethroid resistance in <i>Helicoverpa armigera</i> in Summer crops, do NOT apply to corn earworm longer than 5 mm.
	Native Budworm (<i>Helicoverpa punctigera</i>), Tobacco Budworm (<i>Helicoverpa armigera</i>)	Vic, WA only	30 or 40 mL/100 L	7 days (harvest)	Apply from just after transplanting on a 7 to 10 day schedule, according to pest incidence. Apply as a medium to fine spray using hollow and/or solid cone nozzles. The spray volume should be gradually increased as the plants grow, from 200 L/ha just after transplanting to 1000 L/ha at maturity. Use the higher rate when larvae longer than 10 mm are present or when egg laying is intense.
Tomatoes (bush and trellis)	Native Budworm (<i>Helicoverpa punctigera</i>)	All States	LOW VOLUME 200, 300 or 400 mL/ha	1 day (harvest)	DO NOT apply to trellis tomatoes by aircraft. Apply on a 7 to 10 day schedule while the pests are active. Use the middle rate when pest activity is high and/or when larvae between 10 and 20 mm in length are present. Use the highest rate when larvae longer than 20 mm are present and/or when interruption of the schedule enables a very severe infestation to develop.
	Tomato Grub (<i>Helicoverpa armigera</i>)	Vic, Tas, SA, WA only	HIGH VOLUME 20, 30 or 50 mL/100 L		LOW VOLUME Ground Rig Application: Apply in 100 to 400 L of water per hectare as a fine spray. Aerial Application: Apply in a minimum of 10 L of water per hectare as a spray of 100 to 150 microns VMD.
	Cluster Caterpillar (<i>Spodoptera litura</i>)	Qld, NSW, ACT, WA, NT only			HIGH VOLUME Apply as a medium to fine spray. Gradually increase the spray volume as the plants grow, from 200 L/ha just after transplanting establishment to 1000 L/ha at maturity.
	Tomato Grub (<i>Helicoverpa armigera</i>)	Qld, NSW, NT only	LOW VOLUME 300 mL /ha HIGH VOLUME 30 mL /100 L		Thoroughly check the crop at 2-3 day intervals from transplanting/emergence. Apply according to pest incidence. Preferably apply to eggs. Apply to larvae only if they are less than 5 mm long. Apply using the methods described for Native Budworm above.
	Plague Thrips (<i>Thrips imaginis</i>)	Qld, NSW, ACT, Vic, Tas, WA, NT only	LOW VOLUME 130 mL/ha HIGH VOLUME 18 mL /100 L		The crop should be frequently checked when it is flowering for the presence of the pest. Apply when the infestation reaches an economically damaging level, using the application methods described for Native Budworm above.

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

WITHHOLDING PERIODS:

ASPARAGUS, BROCCOLI, BRUSSELS SPROUTS, CABBAGES, CAULIFLOWERS, CHINESE CABBAGE, KALE, KOHLRABI, TOMATOES, TURNIPS:

DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.

LETTUCE:

DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION.

PASTURES:

**DO NOT GRAZE FOR 3 DAYS AFTER APPLICATION.
DO NOT CUT FOR STOCKFEED FOR 14 DAYS AFTER APPLICATION.**

MAIZE, MUNG BEANS, NAVY BEANS, RICE, SORGHUM, SOYBEANS, SWEET CORN, TOBACCO:

**DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.
DO NOT GRAZE TREATED STUBBLE FOR 14 DAYS AFTER APPLICATION.**

LUCERNE:

DO NOT GRAZE OR CUT FOR STOCKFEED FOR 14 DAYS AFTER APPLICATION.

COTTON, LINSEED, POME FRUIT, STONE FRUIT:

DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION.

CANOLA:

**DO NOT GRAZE OR CUT FOR STOCK FEED FOR 21 DAYS AFTER APPLICATION.
DO NOT CUT AND WINDROW FOR HARVEST FOR 21 DAYS AFTER APPLICATION.**

CHICKPEAS:

**DO NOT HARVEST FOR 21 DAYS AFTER APPLICATION.
DO NOT GRAZE OR CUT FOR STOCKFEED FOR 35 DAYS AFTER APPLICATION.**

SUNFLOWERS:

DO NOT HARVEST FOR 21 DAYS AFTER APPLICATION.

FIELD PEAS, LUPINS:

DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION.

FABA BEANS:

**DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION.
DO NOT GRAZE OR CUT FOR STOCKFEED FOR 35 DAYS AFTER APPLICATION.**

LINOLA:

DO NOT HARVEST FOR 12 WEEKS AFTER APPLICATION.

GENERAL INSTRUCTIONS

FARMALINX AlphaCyper Insecticide is a contact and residual insecticide. It can be used as a protective treatment when applied at regular intervals or as a knockdown treatment to control existing infestations.

INSECTICIDE RESISTANCE WARNING

FARMALINX AlphaCyper Insecticide is a contact and residual insecticide. It can be used as a protective treatment when applied at regular intervals or as a knockdown treatment to control existing infestations. 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 AlphaCyper Insecticide to control resistant insects. FARMALINX AlphaCyper Insecticide may be subject to specific resistance management strategies. For further information contact your local supplier, FARMALINX representative or local agricultural department agronomist. In NSW and Qld, application of this product to *Helicoverpa armigera* larvae longer than 5 mm may not only be ineffective but it may increase the level of synthetic pyrethroid resistance. This product should NOT be used to treat infestations that were not controlled by an earlier application of it or another synthetic pyrethroid. Infestations not controlled by this product should be treated with an insecticide from another chemical group. Application of this product with an insecticide from another chemical group such as NUDRIN* will assist with the management of synthetic pyrethroid resistant *Helicoverpa armigera*.

MIXING
Add the required quantity of FARMALINX AlphaCyper Insecticide to water in the spray tank and mix thoroughly. Maintain agitation during mixing and application.

APPLICATION
FARMALINX AlphaCyper Insecticide can be applied by ground or aircraft. Thorough coverage is essential to ensure adequate control. Apply during the cooler parts of the day or night.

Ground Application: For low volume spraying of field crops with ground rigs, use a total volume of 50-200 L/ha except for sweet corn, tomatoes and tobacco where higher volumes should be used. Drop arms should be used on ground rigs in row crops taller than 30cm (0.3 m). The application should be made as a fine spray, preferably using hollow cone nozzles, unless directed in the Critical Comments.

Aerial Application: DO NOT apply to trellis tomatoes by aircraft. Use at least 10 L/ha of total spray volume. If possible, spray in a crosswind. Avoid spraying in calm conditions or when wind is light and variable in direction. Apply as a spray of 100-150 microns VMD.

COMPATIBILITY
This product is compatible with AZODRIN* 400, Dithane* M45, Kelthane* EC, Kocide*, NUDRIN* Insecticide, NUDRIN* 225, Parathion 500*, Predator* 300, Ridomil*, Wuxal*, Select*.

DO NOT mix FARMALINX AlphaCyper Insecticide with wettable powders and WDG's BEFORE addition to spray tank. FARMALINX AlphaCyper Insecticide can be mixed with Dithane WDG providing the mixture is agitated efficiently and used immediately. Read the label of any chemicals being mixed with this product, and follow all instructions and restrictions relating to their use.

PROTECTION OF LIVESTOCK
Dangerous to bees. DO NOT spray on any plants in flower while bees are foraging. FARMALINX AlphaCyper Insecticide is known to have a deterrent effect on foraging bees for a short period of time after spraying.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT
Dangerous to fish and aquatic invertebrates such as yabbies. DO NOT contaminate fish ponds, drains, rivers or streams with product or used containers. Drift and run-off from treated areas may be hazardous to fish or crustaceans in adjacent sites.

STORAGE AND DISPOSAL
Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. The method of disposal of the container depends on the container type. Read the Storage and Disposal instructions on the label that is attached to the container.

SAFETY DIRECTIONS
Harmful if swallowed. Will irritate the eyes and skin. Facial skin contact may cause temporary facial numbness. Avoid contact with eyes and skin. Avoid inhaling vapour or spray mist. When preparing spray, wear cotton overalls buttoned to the neck and wrist, washable hat, elbow-length PVC gloves and face shield or goggles. If product in eyes, wash it out immediately with water. 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, face shield or goggles and contaminated clothing.

FIRST AID
If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26. If swallowed, do NOT induce vomiting. Give a glass of water.

MATERIAL SAFETY DATA SHEET
Additional information is listed in the material safety data sheet (MSDS). A material safety data sheet for FARMALINX AlphaCyper Insecticide is available from FARMALINX Pty Ltd on request. Call Customer Service on 02 9389 2455.

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. No warranty (other than non-excludable statutory warranties) of merchantability or fitness for a particular purpose, express or implied, extends to the use of the product contrary to label instructions, or under off-label permits not endorsed by FARMALINX Pty Ltd or under abnormal conditions. FARMALINX Pty Ltd accepts no liability for any loss or damage arising from incorrect storage, handling or use.
* Other trademarks

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

FARMALINX

AlphaCyper

INSECTICIDE

ACTIVE CONSTITUENT: 100 g/L ALPHA-CYPERMETHRIN
SOLVENT: 755 g/L LIQUID HYDROCARBONS

GROUP 3A INSECTICIDE

For the control of certain insect pests, including Heliothis (*Helicoverpa* spp.) on various crops and Redlegged Earth Mite and Blue Oat Mite on certain field crops and pastures and certain insect pests on fruit and vegetable crops as indicated in the Directions For Use table.

IMPORTANT: THIS LEAFLET IS PART OF THE LABEL ATTACHED TO THE CONTAINER. READ THOROUGHLY BEFORE OPENING OR USING THIS PRODUCT

FARMALINX Pty Ltd ABN 95 134 353 245
Level 25, Suite 2506, Tower 2, 101 Grafton Street,
Bondi Junction NSW 2022

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Partners in Agriculture

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APVMA Approval No.: 64298/0809