

Main panel label

POISON

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

**UniChoice* 100 EC
INSECTICIDE**

**ACTIVE CONSTITUENT: 100 g/L ALPHA-CYPERMETHRIN
SOLVENT: 704 g/L HYDROCARBON LIQUID**

GROUP	3A	INSECTICIDE
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For the control of 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 pests on fruit and vegetable crops as specified in the directions for use table.

**IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USING THIS
PRODUCT.**

Contents: (1, 5, 20, 100, 110) Litres

UPL AUSTRALIA LIMITED

ABN 76 066 391 384

Suite 416, Level 4, 14 Lexington Drive

Norwest Business Park, Bella Vista NSW 2153

TELEPHONE (02) 8824 7277

FACSIMILE (02) 8814 6469

* Trademark of UPL Australia Limited

APVMA Approval No. 64686/56616

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 bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm 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.

For refillable containers: Empty contents fully into application equipment. Close all valves and return to point of supply or designated collection point for refill or storage.

SAFETY DIRECTIONS: Harmful if swallowed. May 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: 131126. If swallowed DO NOT induce vomiting. Give a glass of water.

MSDS: Additional information is listed in the Material Safety Data Sheet available from the supplier.

CONDITIONS OF SALE

United Phosphorus accepts responsibility for the consistent quality of the product; however since the use and application of the product is beyond control, the company accepts no responsibility whatsoever for any loss, damage or other result following the use of the product whether used in accordance with directions or not; other than those mandatorily imposed by statutes, the liability is limited to the replacement of the goods and is conditional upon a claim made in writing and, where necessary, a sufficient part of the goods being returned for proper examination by the company within thirty days of sale.

Batch No.
Bar Code

DOM

Drummuster logo

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Leaflet ancillary panel 1

DIRECTIONS FOR USE

RESTRAINTS: DO NOT APPLY IF RAINFALL 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 Instructions. This product is ineffective against pyrethroid-resistant *Plutella xylostella*.

CROP	PEST	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 application 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 Alpha-Cypermethrin.
Banksias	Banksia moth (<i>Danima banksia</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, Kale, Kohlrabi Chinese cabbage, Turnips	Cabbage white butterfly (<i>Pieris rapae</i>) Cabbage moth (<i>Plutella xylostella</i>) * <i>Helicoverpa punctigera</i> * <i>Helicoverpa armigera</i> Cluster caterpillar (<i>Spodoptera litura</i>)	All States	LOW VOLUME 400 mL/ha HIGH VOLUME 50 mL/100 L ULTRA LOW VOLUME 400 mL/ha	1 day (harvest)	Apply when pest populations indicate. When reinfestation is continuous, treatment every 7 to 10 days may be required. Add a non-ionic surfactant at its label rates. LOW VOLUME: Ground rig application: Apply in 100 to 600 L water per hectare as a fine spray with droplet size of 100 to 200 microns. For aerial application, apply in 20 to 60 L water/ha with a droplet size of 100 to 150 microns. HIGH VOLUME Use a spray with droplet size of 200 to 400 microns. Apply 600 L spray mixture per ha just after transplanting and increase gradually to 1000 L/ha towards maturity. ULTRA LOW VOLUME: see ULV application section of this label. <i>Helicoverpa armigera</i> In Qld, NSW, and ACT - follow the application directions for the pest above. Apply as required for 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.
Canola	Native budworm (<i>Helicoverpa punctigera</i>)	NSW, Vic, SA, Tas & WA only	200 mL/ha or 300 L/ha	21 days (cutting for harvest or stock feed or grazing)	Do not use more than a total of 400 mL/ha per season to any one crop. For ULTRA LOW VOLUME use, see application section of this label. Inspect the crop regularly 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 cooler part of the day. Use the higher rate if larvae larger than 10 mm are present.
	Tobacco looper (<i>Chrysodeixis argentifera</i>)	NSW, Tas, SA & Vic only			
	Vegetable weevil (<i>Listroderes diffcilis</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. Apply when cotyledons and leaves are being eaten or the plant lopped. Repeat as necessary.
	Cabbage white butterfly (<i>Pieris rapae</i>) Cabbage moth (<i>Plutella xylostella</i>)	SA, WA only			Apply according to pest incidence.

	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 red legged 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>)		50 mL/ha		Apply when mite numbers reach damaging levels. DO NOT apply as pre emergence treatment. DO NOT use as a ULV application.	
Chickpeas	Native budworm (<i>Helicoverpa punctigera</i>)	WA only	160 mL/ha	21 days (Harvest) 5 Weeks (grazing)	Apply to open, less dense crops when numbers of newly hatched larvae first appear on the crop and repeat as necessary.	
		NSW, ACT, 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 10mm are present. Best results will be obtained by spraying at egg hatch.	
	Redlegged earth mite (<i>Halotydeus destructor</i>)		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 red legged 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>)		50 mL/ha		Apply when mite numbers reach damaging levels. DO NOT apply as pre emergence treatment. DO NOT use as a ULV application.	
	Cutworm (<i>Agrotis</i> spp.)		75 mL/ha		Check emerging or 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.	
Cotton	Native budworm (<i>Helicoverpa punctigera</i>)	QLD, NSW, NT & WA only	-	14 days (harvest)	For Ultra Low Volume use see ULV application section of this label. 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		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 up to 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>)		-		Preferably apply to eggs. Apply to larvae only if they are less than 5 mm long.	
			300 mL/ha		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.	
			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.	
	Green mirid (<i>Creontiades dilutus</i>) Apple dimpling bug (<i>Campylomma liebknechti</i>)	Qld, NSW, NT & WA only	300 or 400 mL/ha			Apply at the recommended threshold levels as indicated by field checks. Use the higher rate when pest pressure is high and when increased residual protection is required.
						Apply when 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 greater than 10 mm are present. Best results are obtained by applying at egg hatch.
	Rough bollworm (<i>Earias huegeliana</i>)					

Eucalypts	Adults and larvae of Tasmanian eucalyptus leaf beetle	Tas only	250 mL/ha	-	Apply by fixed wing aircraft or by helicopter using hydraulic nozzles 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. For ULV application, see ULV application section of this label.
Faba Beans	Native budworm (<i>Helicoverpa punctigera</i>)	WA only NSW, ACT, Vic, Tas, SA, WA only	160 mL/ha	4 weeks (Harvest) 5 Weeks (grazing)	Apply to open, less dense crops when numbers of newly hatched larvae first appear on the crop and repeat as necessary.
			200 or 300 mL/ha		Apply when pest numbers reach damaging levels and repeat if necessary. Use the higher rate if larvae longer than 10mm are present. Best results will be obtained by spraying at egg hatch.
	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 red legged earth mite numbers and re-treat if necessary. DO NOT apply as a ULV application.		
	50 mL/ha		Apply when mite numbers reach damaging levels. DO NOT apply as pre emergence treatment. DO NOT use as a ULV application.		
	75 mL/ha		Check emerging or 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.		
Field peas	Native budworm (<i>Helicoverpa punctigera</i>)	NSW, ACT, Vic, Tas, SA, WA only	160 mL/ha	4 weeks (Harvest)	Check crops for larvae every three to four days from the beginning of flowering. Apply to open, less dense crops when damaging numbers of newly hatched larvae first appear on the crop and repeat as necessary.
			200 mL/ha		Check crops for larvae every three to four days from the beginning of flowering. Apply when damaging pest number first appear on the crop and repeat if necessary.
			300 mL/ha		Check crops for larvae every three to four days from the beginning of flowering. Apply when larvae less than 10 mm are present and longer residual control is required.
	Pea weevil (<i>Bruchus pisorum</i>)		160 or 200 mL/ha		Apply during flowering prior to egg laying when adult weevil population reaches 1 or more per 25 sweeps of a sweep net. Use the higher rate for longer residual protection.
	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.
	Redlegged earth mite (<i>Halotydeus destructor</i>)		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 red legged 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>)		50 mL/ha		Apply when mite numbers reach damaging levels. DO NOT apply as pre emergence treatment. DO NOT use as a ULV application.

Grapevines (non bearing)	Pink cutworm (<i>Agrotis munda</i>), apple weevil (Curculio beetle) (<i>Otiorhynchus cribricollis</i>), garden weevil (<i>Phlyctinus callosus</i>)	NSW, ACT, Vic, Tas, SA, WA only	Dilute Spraying: 100 mL/100 L Concentrate Spraying: Refer to the application section	-	Monitor young vines during spring and early summer and apply at the first signs of leaf damage. Spray the leaves, canes and soil around each vine to a diameter of 30 cm. 70 to 80 mL of dilute spray should be sufficient for each vine. If pest infestation persists, a second application may be required after 3 weeks. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.
Lettuce	<i>Helicoverpa</i> spp.	All States	Low volume: 400 mL/ha 50 mL/100 L	3 days (harvest)	Spray at first sign of activity. Good spray coverage is essential. Recheck crop at regular intervals, if no specific resistance strategy exists, do NOT use chemicals from the same group for consecutive sprays. To help contain pyrethroid resistance in <i>Helicoverpa armigera</i> in summer crops, do not apply to Corn Earworm larvae >5mm in Northern NSW and Qld.
Linola	Native budworm (<i>H. 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. For Ultra Low Volume use, see ULV application section of this label. Inspect 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 L/ha. Use the higher rate if larvae longer than 10mm are present. Refer to application section for water rates.
Linseed	Cutworm (<i>Agrotis</i> spp.)	NSW, ACT, Tas, SA, WA only	75 mL/ha	14 days (harvest)	Check emerging and establishing crops in the late afternoon and evening for caterpillars crawling on the soil surface and feeding on the seedlings. Apply product in late afternoon or evening.
	Native budworm (<i>H. punctigera</i>)	NSW, Vic, Tas, SA, WA only	200 or 300 mL/ha		For Ultra Low Volume use, see ULV application section of this label. Inspect the crop regularly and immediately after flowering. Apply when damaging numbers first appear on the crop and repeat if necessary. Use the higher rate if larvae larger than 10 mm are present. Best results will be obtained by spraying at egg hatch. Refer to application section for water rates.
Lucerne (seed and forage crops)	Native budworm (<i>H. punctigera</i>)	NSW, Vic, Tas, SA, WA only	160 mL/ha	14 days (grazing or cutting for stock feed)	For Ultra Low Volume use, see ULV application section of this label. Do NOT use more than 160 mL/ha per cut. Apply when pest populations reach economically damaging levels. Apply to larvae less than 5 mm in length.
	Green mirid (<i>Creontiades dilutus</i>)				
Lupins	Native budworm (<i>H. punctigera</i>)	NSW, ACT, Tas, SA only	200 or 300 mL/ha	4 weeks (harvest)	DO NOT apply more than a total 600mL/ha per season to any one lupin crop. For Ultra Low Volume use, see ULV application section of this label. Apply when damaging pest numbers first appear on the crop and repeat if necessary. Use the higher rate if larvae larger than 10 mm are present. Best results are 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, 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 the seedlings. Apply product in late afternoon or evening.
	Common armyworm (<i>Mythimna convecta</i>), Southern armyworm (<i>Persectania ewingii</i>)	ACT, NSW only	240 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 red legged 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>)		50 mL/ha		Apply when mite numbers reach damaging levels. Do NOT apply as pre emergence treatment. Do not use 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)	For Ultra Low Volume use, see ULV application section of this label. 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 & NT, preferably apply to eggs or apply to larvae only if they are less than 5 mm long.
	Native budworm (<i>H. punctigera</i>)	All States			Thoroughly and regularly check the crop. Apply when the infestation reaches economically damaging levels and repeat as required. Best results will be obtained by applying at egg hatch. Use the higher rate if larvae longer than 10mm are present.
Mung beans, Navy Beans	Native budworm (<i>Helicoverpa punctigera</i>)	Qld, NSW, ACT, WA, NT only	300 or 400 mL/ha		For Ultra Low Volume use, see ULV application section of this label. Apply when the number of larvae feeding on flowers or pods reaches 1 to 2 per metre of row. Use the higher rate when canopy is dense. To help contain pyrethroid resistance in <i>Helicoverpa armigera</i> in summer crops, do not apply to corn earworm larvae > 5 mm in Northern NSW and Qld.
	Corn earworm (<i>Helicoverpa armigera</i>)				
Pastures (legume and grass based pastures)	Wingless grasshoppers (<i>Phaulacridium vittatum</i>)	All States	160 mL/ha	3 days (grazing) 14 days (cut for stockfeed)	Do NOT apply more than a total of 320mL/ha per season. For Ultra Low Volume use, see ULV application section of this label. Apply to infested areas and repeat as necessary. Spraying is most effective on newly emerged hoppers before they begin dispersing. Spray in the warmer parts of the day when hoppers are exposed. 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 a commercially damaging level.
	Blackheaded pasture cockchafer (<i>Aphodius tasmaniae</i>)	NSW, Vic, Tas, SA 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>)	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 red legged 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>)		50 mL/ha		Do NOT use as a ULV application. Autumn/winter: Apply after the opening rains in late autumn/ early winter 2-3 weeks after egg hatch occurs. This product is rain fast after spray deposits have dried on the leaf surface. This product can be mixed with herbicides used for winter cleaning of sub-clover pastures. See the %compatibility+section of this label. Spring: If RLEM/BOM numbers increase in the spring, spray when damage is observed and again before diapause egg production begins. This product can be mixed with herbicides used for spray topping pastures. See the %compatibility+section of this label. Do NOT use as a pre-emergence treatment.

Pome fruit: Apples, pears	Apple weevil (<i>Otiorhynchus cribricollis</i>), garden weevil (<i>Phlyctinus callosus</i>)	NSW, Vic, SA, WA only	Dilute Spraying: 100 mL/100 L Concentrate Spraying: Refer to the application section	14 days (harvest)	Spray approximately 1-2 litres of solution onto the crotch, trunk and the soil at the base of each tree at peak weevil emergence. This usually occurs in 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. 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.
Rice (both aerial and drill sown)	Common armyworm (<i>Mythimna convecta</i>)	NSW only	200 mL/ha	7 days	Do NOT apply more than a total of 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 per hectare to drained fields only. Spray in the cool of the day (early morning or late afternoon) when larvae are most active. Monitor crops closely and re-treat if necessary. Poor control may occur in crops that have lodged. See application section for correct water rates.
Soybeans	Native budworm (<i>Helicoverpa punctigera</i>)	Qld, NSW, WA, ACT, & NT only	300 or 400 mL/ha	7 days (harvest)	For Ultra Low Volume use, see ULV application section of this label. Thoroughly and regularly check the crop. Apply when flower or pod feeding numbers reach 1-2 per metre of row. Repeat as required. Use the higher rate if larvae longer than 10mm are present. Best results are obtained by applying at egg hatch.
	*Corn earworm (<i>Helicoverpa armigera</i>)				Thoroughly and regularly check the crop. Apply when the 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 when pest pressure is high.
Stone fruit: Apricots, nectarines, peaches, plums	Apple weevil (<i>Otiorhynchus cribricollis</i>), garden weevil (<i>Phlyctinus callosus</i>)	WA only	Dilute Spraying: 100 mL/100 L Concentrate Spraying: Refer to the application section	14 days (harvest)	Spray approximately 1-2 litres of solution onto the crotch, trunk and the soil at the base of each tree at peak weevil emergence. This usually occurs in 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. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods.
Sorghum	Native budworm (<i>Helicoverpa punctigera</i>) *Corn earworm (<i>Helicoverpa armigera</i>)	Qld, NSW, WA, ACT, & NT only	300 or 400 mL/ha	7 days (harvest)	For Ultra Low Volume use, see ULV application section of this label. 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>H. 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 <i>H. armigera</i> larvae only if they are less than 5mm long. Repeat as required.
	Sorghum midge (<i>Contarinia sorghicola</i>)		100 or 200 mL/ha		Apply when midge numbers reach 1-2 per head from head emergence to completion of flowering. Repeat as required. Use the higher rate for increased residual protection.
Sunflowers	Native budworm (<i>Helicoverpa punctigera</i>)	Qld, NSW, WA, Vic, ACT, & 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 an average of 2-3 larvae are present 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 larger than 10mm 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 5mm long. Repeat as required. Use the higher rate under heavy pest pressure.
	Grey cluster bug (<i>Nysius clelandensis</i>) Rutherglen bug (<i>Nysius vinitor</i>)	Qld, NSW, NT, Vic, Tas, WA & ACT only			Apply from budding when adult numbers reach 10-15 per plant in dry land crops and 20-25 in irrigated crops. After flowering, apply when adult numbers on the face of heads reach 20-25. Repeat as required. The higher rate should be used when numbers are very high.
	Rutherglen bug (<i>Nysius vinitor</i>)	Vic, Tas, WA only	250 mL/ha		Apply from budding when adult numbers reach 10-15 per plant in dry land crops and 20-25 in irrigated crops. After flowering, apply when adult numbers on the face of heads reach 20-25. Repeat as required.
Sweet corn	Native budworm (<i>Helicoverpa punctigera</i>) Corn earworm (<i>Helicoverpa armigera</i>)	All States	300 or 400 mL/ha	7 days (harvest)	For Ultra Low Volume use, see ULV application section of this label. Thoroughly and regularly check the crop. Cob damage tolerated is variable according to market requirements. For fresh market corn spray at tassel emergence then at intervals of 5-8 days until silks wither. For processing corn and maize apply at early silking. 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 larger 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.
Tobacco	Native budworm (<i>Helicoverpa punctigera</i>) Tobacco budworm (<i>Helicoverpa armigera</i>)	Vic 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>) Tomato grub (<i>Helicoverpa armigera</i>)	All States	Program application: ULTRA LOW VOLUME: 300 mL/ha LOW VOLUME: 200 or 300 mL/ha HIGH VOLUME: 20 or 30 mL/100 L	1 day (harvest)	ULTRA LOW VOLUME: see ULV application section of this label Do NOT apply to trellis tomatoes by aircraft. Program application: Apply on a 7 to 10 day schedule while pests are active. Use the higher rate when egg laying is intense. Apply as a fine spray using hollow cone nozzles. For Low volume applications apply in 100 to 400 L/ha by ground or minimum of 10 L/ha by air. For High volume applications apply 200 L of spray mixture per hectare after transplanting and increase gradually to 1,000 L/ha at maturity. Established Infestations: Apply these rates to established infestation or escape situations. Do not apply to Tomato Grub larvae > 5mm in length.
	Cluster caterpillar (<i>Spodoptera litura</i>)	Qld, NSW, NT, WA & ACT only	Established Infestations: Low volume and Ultra Low Volume 400 mL/ha High Volume 50 mL/100 L		
	Plague thrips (<i>Thrips imaginis</i>)	Qld, NSW, ACT Vic, Tas, WA & NT only	ULTRA LOW VOLUME: 130 mL/ha 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 as described above.
Winter cereals	Cutworm (<i>Agrotis</i> spp.)	NSW, ACT Vic, SA & WA only	75 mL/ha	7 days (harvest) 14 days (stubble grazing)	Do NOT apply more than a total of 540 mL/ha per season to any one crop. For Ultra Low Volume use, see ULV application section of this label. 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.

	Qld only	75 or 150 mL/ha	In Qld use the higher rate when the infestation is severe, or when the larvae are larger than 10 mm long, or when the residual activity is required.
Webworm (<i>Hednota</i> spp.)	NSW, SA, WA only	75 mL/ha	Do NOT use as a ULV application. Pre-planting: May be applied pre-planting with knockdown herbicides. Apply from the last week of May when 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 100L of water per hectare. Apply at first sign of pest infestation. Repeat as necessary. Post Crop Emergence: Inspect crop regularly from emergence and apply at the first sign of pest activity. Repeat as required.
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 red legged 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>)		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 pre-emergence treatment. Do not use as a ULV application.
Aphids (<i>Rhopalosiphum</i> spp.) (barley yellow dwarf virus vectors)		125 mL/ha	To control aphids, sprays should be applied at 3 and 7 weeks after emergence to reduce aphid colonization and spread of Barley Yellow Dwarf virus. This will also reduce the effect of feeding aphid damage.
Common armyworm (<i>Mythimna convecta</i>), Southern armyworm (<i>Persectania ewingii</i>)		All States	240 mL/ha

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

WITHHOLDING PERIODS:

Harvest:

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

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

DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION

COTTON, LINSEED, STONE, POME FRUIT:

DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION

CHICKPEAS, SUNFLOWERS:

DO NOT HARVEST FOR 21 DAYS AFTER APPLICATION

**FIELD PEAS, LUPINS, FABA BEANS:
DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION**

LINOLA: DO NOT HARVEST FOR 12 WEEKS AFTER APPLICATION

**CANOLA: DO NOT HARVEST FOR 21 DAYS AFTER APPLICATION. DO NOT
CUT AND WINDROW FOR HARVEST FOR 21 DAYS AFTER APPLICATION**

Grazing:

**CANOLA: DO NOT CUT FOR STOCK FEED FOR 21 DAYS AFTER
APPLICATION.**

**CHICK PEAS, FABA BEANS:
DO NOT CUT FOR STOCK FEED FOR 5 WEEKS AFTER APPLICATION.**

**LUCERNE: DO NOT GRAZE OR CUT FOR STOCK FEED FOR 14 DAYS AFTER
APPLICATION.**

**PASTURES: DO NOT GRAZE FOR 3 DAYS AFTER APPLICATION. DO NOT CUT
FOR STOCK FEED FOR 14 DAYS AFTER APPLICATION.**

**WINTER CEREALS: DO NOT GRAZE TREATED STUBBLE FOR 14 DAYS AFTER
APPLICATION**

GENERAL INSTRUCTIONS

This product 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 larvae. Best results will be obtained by spraying at egg hatch. Thorough coverage is essential to ensure adequate control. Apply during the cooler parts of the day.

The product can be applied in two ways:

1. Mixed with water OR
2. Mixed with oil based bulking agents such as D-C-Tron Cotton Spray Oil or other compatible ULV products.

INSECTICIDE RESISTANCE WARNING

GROUP	3A	INSECTICIDE
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For insecticide resistance management UniChoice 100 EC Insecticide is a Group 3A insecticide. Some naturally-occurring insect biotypes resistant to UniChoice 100 EC Insecticide and other Group 3A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if UniChoice 100 EC Insecticide or other Group 3A Insecticides are used repeatedly. The effectiveness of UniChoice 100 EC Insecticide on resistant individuals could be significantly reduced. Since the occurrence of resistant individuals is difficult to detect prior to use, UPL Australia Limited accepts no liability for any losses that may result from the failure of UniChoice 100 EC Insecticide to control resistant insects. UniChoice 100 EC Insecticide may be subject to specific resistance strategies. For further information contact your local supplier, UPL Australia Limited representative or local department of agriculture 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 such as methomyl will assist with the management of synthetic pyrethroid resistant *Helicoverpa armigera*.

APPLICATION – Grapevines, pome and stone fruit

Dilute Spraying

“ Use a sprayer designed to apply high volumes of water up to the point of runoff and matched to the stage of growth of crop being sprayed.

“ Calibrate 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 specialist 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, sprayer calibration and operation may all need to be changed, as the crop grows.

Concentrate Spraying

“ Use a sprayer designed and calibrated 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 stage of crop being sprayed.

“ Calibrate 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: $3 \times$ (ie $1500 \text{ L} \div 500 \text{ L} = 3$)

4. If the dilute label rate is 100 g/100 L, then the concentrate rate becomes 3×100 that is 300 g/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 follow industry Best Practices.

Low Volume and High volume applications by ground rig or when the product is applied with water as a carrier

UniChoice 100 EC Insecticide can be applied by ground or aircraft with a water carrier. Thorough coverage is essential to ensure adequate control. Always apply with a non-ionic surfactant unless detailed on the label of the tank mix partner. Apply during the cooler parts of the day or night.

Ground Application – water carrier

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 30 cm (0.3 m). The application should be made as a fine spray, preferably using hollow cone nozzles and a droplet size of 150-200 microns unless otherwise recommended in the Critical Comments.

Aerial Application – water carrier

DO NOT apply to trellis tomatoes by aircraft.

Use at least 20 L/ha of total spray volume.

For spring/early summer applications to cereals, linola, canola, rice and to other dense crops, apply in a total spray volume of 30 to 35L/ha. If possible, spray in a cross wind. Avoid spraying in calm conditions or when wind is light and variable in direction. Apply as a spray of 100-150 microns VMD.

Ultra Low Volume (ULV) application by aircraft

UniChoice 100 EC Insecticide mixed with D-C-Tron Cotton Spray Oil or other compatible products should be applied in a minimum total spray volume of 1.5 L/ha. It should only be applied by aircraft with suitable equipment to provide a droplet size of approximately 80-100 microns VMD. Applications should be made during the cooler parts of the day or at night. Avoid application in calm or very windy conditions. Preferably apply in light to moderate cross winds.

MIXING

Low volume and high volume applications by ground rig when UniChoice 100 EC is applied with a water carrier.

Add the required amount of UniChoice 100 EC to water in the spray tank and mix thoroughly. Maintain agitation during mixing and application.

Ultra Low Volume (ULV) application by aircraft when the product is applied with oil based bulking agents

This product can be mixed with D-C-Tron Cotton Spray Oil or other compatible products (see Compatibility Section).

Add the mixing partner to the spray tank first, engage agitation system and add the required amount of UniChoice 100 EC Insecticide direct to the spray tank. DO NOT mix with water to ensure there is no water in the spraying system.

COMPATIBILITY

Low Volume and High Volume Application by ground rig or aircraft when UniChoice 100 EC Insecticide is applied with water as a carrier

This product is compatible with D-C-Trate, D-C-Tron Cotton Spray Oil, Synertrol, Ulvapron, mancozeb*, dicamba, dicofol, copper hydroxide, methomyl, parathion methyl, chlorpyrifos, metalaxyl, Wuxal, clethodim, dimethoate, paraquat, diquat, glyphosate, Tigrex, Jaguar, simazine, imazethapyr, 2,4-D Amine, 2,4-D Ester, 2,4-DB, MCPA and Coptrol.

DO NOT mix this product with wettable powders and water dispersible granules BEFORE addition to the spray tank.

*This product can be mixed with mancozeb WP and WG formulations provided the mixture is agitated efficiently and used immediately.

Ultra Low Volume by aircraft

This product should only be mixed with specific ULV formulations of other insecticides eg methomyl, chlorpyrifos 300, and PBO synergists, when mixed according to the directions on the PBO synergist labels.

PROTECTION OF LIVESTOCK

Dangerous to bees. DO NOT spray on any plants in flower while bees are foraging. This product is known to have a deterrent effect on foraging bees for a short period of time after spraying. Risk to bees is reduced by spraying in the early morning and late evening when bees are not foraging.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Dangerous to fish and aquatic invertebrates such as yabbies. DO NOT contaminate streams, rivers or waterways with the chemical or the used container. Water from treated rice fields must not be released off farm until the retention period specified by local irrigation authorities has been met. DO NOT apply or allow spray drift onto adjacent non-target aquatic areas. Allow sufficient buffer distance between downwind non-target water bodies and sprayed area. Run-off from areas must be prevented from entering drains or waterways.

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 chemical 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 landfill is available, bury the containers below 500 mm 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.

For refillable containers: Empty contents fully into application equipment.

Close all valves and return to point of supply for refill or storage.

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 and a washable hat, elbow-length PVC gloves and a 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: 131126. 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 which is available from the supplier.

CONDITIONS OF SALE: United Phosphorus accepts responsibility for the consistent quality of the product; however since the use and application of the product is beyond control, the company accepts no responsibility whatsoever for any loss, damage or other result following the use of the product whether used in accordance with directions or not; other than those mandatorily imposed by statutes, the liability is limited to the replacement of the goods and is conditional upon a claim made in writing and, where necessary, a sufficient part of the goods being returned for proper examination by the company within thirty days of sale.