

DANGEROUS POISON

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

TITAN

METHOMYL 225

INSECTICIDE

ACTIVE CONSTITUENT: 225g/L METHOMYL (an anti-cholinesterase compound)
SOLVENT: 593g/L METHANOL

GROUP **1A** INSECTICIDE

For the control of certain insect pests of cereals, fruit, legumes, cotton, oilseeds crops, tobacco, potatoes, vegetables, pasture, peanuts, ginger, duboisia, and other crops as listed in the directions for use table.

APVMA Approval No.: 69047/124055

Pack Size: 1L; 5L; 10L; 20L; 110L; 200L; 1000L



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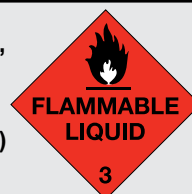
IN A TRANSPORT EMERGENCY

DIAL 000

POLICE OR FIRE BRIGADE



UN NO: 2758
CARBAMATE PESTICIDE,
LIQUID, FLAMMABLE,
TOXIC
(CONTAINS
METHANOL, METHOMYL)
HAZCHEM: 3WE
PACKAGING GROUP: II



DIRECTIONS FOR USE

Restraint: DO NOT use in covered or protected situations such as glasshouses, greenhouses or plastic tunnels.

CROP	PEST	STATE	RATE	WHP (days)	CRITICAL COMMENTS
Adzuki beans	Heliothis	NSW, WA only	0.5 or 1L/ha	7 (H)	Ovicide/Larvicide: Use only where crops are monitored regularly. Use low rate when eggs are present and high rate when heavy egg lay occurs and/or when first to second instar larvae are present (up to 5mm long).
			1.5 or 2L/ha		Larvicide: Use low rate on small larvae and light infestations and high rate on large larvae and heavy infestations.
	Green Vegetable Bug		1.5L/ha		Apply when infestation reaches an economically damaging level and repeat if necessary.
Apples	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. Concentrate spraying – Refer to the Application section in GENERAL INSTRUCTIONS.				
	Lightbrown Apple Moth	QLD, VIC, TAS, SA, WA only	Dilute spraying 150 to 200mL/100L water	1 (H)	Apply at calyx stage and repeat each 14 days, or as required by pest pressure. Only use low rate in NSW, but in other states use high rate if infestation is heavy.
		NSW only	Dilute spraying 150mL/100L water		Apply on a 14 day schedule for late season control of light infestations only. Moderate to heavy infestations of codling moth will not be controlled.
	Codling Moth	NSW, VIC, WA only			Apply when number of larvae on shoots suggests economic damage is imminent.
	Heliothis	TAS, WA only	Dilute spraying 150 to 200mL/100L water		Apply when pests appear and repeat when necessary. Apply as a high volume spray ensuring adequate spray penetration to obtain effective control of the pests. Only apply when bees are not foraging.
Thrips, Dimpling Bug	QLD, WA only	Dilute spraying 200mL/100L water			
Broad beans, French beans, Navy beans, Long beans, Legume seed crops	Bean Fly	QLD, NSW, WA, NT only	100mL/100L water or 1.5 to 2L/ha	1 (H)	Apply about 3 days after seedlings emerge and again 4 days later. Continue weekly applications until blossom.
	Bean Thrips	QLD, NSW, SA, WA, NT only			Apply when pests first appear. Repeat depending on infestation. Spray to penetrate blossom. Use higher rate on heavier infestations.
	Bean Pod Borer	QLD, WA, NT only	1.5 or 2L/ha		Ovicide/Larvicide: Refer to the Ovicidal/Larvicidal application instructions.
	Heliothis	QLD, NSW, TAS, WA, NT only	100mL/100L or 1.5 to 2L/ha 500mL to 1L/ha		Note: Control of Green Vegetable Bug is important during and after flowering.
	Green Vegetable Bug, Loopers	QLD, NSW, WA, NT only	1.5L/ha		
Blueberries	Monolepta Beetle, <i>Helicoverpa</i> spp., Plague Thrips	NSW, WA only	100mL/100L	5 (H)	Monolepta Beetle: Apply according to pest incidence. <i>Helicoverpa</i> spp.: Apply when the infestation reaches an economically damaging level. Plague Thrips: Apply when numerous on flowers.
Brassicas (Brussels sprouts, Broccoli, Cabbages, Cauliflower)	Cabbage White Butterfly	QLD, WA, NT only	100mL/100L water or 1L/ha	1 (H)	Apply when pests first appear. Repeat depending on infestation. Treatment will probably be required each 5 to 7 days during the growing season. Ensure thorough spray penetration. Use higher rate on heavier infestations.
		NSW, VIC, TAS, SA, WA only	1 or 2L/ha		
	Heliothis	QLD, NSW, TAS, SA, WA, NT only	1.5 or 2L/ha		
	Cabbage Centre Grub	QLD, NSW, SA, WA, NT only	1.5L/ha		
	Cluster Caterpillar	QLD, WA, NT only	1L/ha		
Loopers	QLD, NSW, VIC, TAS, WA, NT only	1.5L/ha			
<i>Centrosema pascuorum</i> seed crops	Green Vegetable Bug	WA, NT only	1.5 to 2L/ha	1 (H)	Apply through boom spray with hollow cone nozzles in 250L/ha water.
Chickpeas	Heliothis	QLD, WA only	1.5 to 2L/ha	1 (H)	Apply when pests first appear. Repeat depending on infestation. Ensure thorough spray penetration.

CROP	PEST	STATE	RATE	WHP (days)	CRITICAL COMMENTS
Citrus	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. Concentrate spraying – Refer to the Application section in GENERAL INSTRUCTIONS.				
	Long-tailed Mealybug	SA, WA only	Dilute spraying 200mL/100L water	2 (H)	Apply in August or late November to early December when fruit is absent and young mealybug are present. Treatment will prevent mealybug attaching under the fruit calyx.
	Lightbrown Apple Moth	NSW, SA, WA only			Apply in late November to early December when fruit is absent to prevent Lightbrown Apple Moth attacking under the fruit calyx.
	Bronze Orange Bug, Spined Citrus Bug	QLD, VIC, SA, WA only	Dilute spraying 25mL/100L		Apply as populations indicate and before bugs reach the adult winged stage.
	Heliothis		Dilute spraying 200mL/100L water		Spray only if heavy infestations occur on young foliage and fruit.
	Large Citrus Butterfly, Small Citrus Butterfly		Dilute spraying 200mL/100L water		Apply to cover unhardened leaves from recent growth flushes when infestations are noted in young trees only..
Cotton	Heliothis	QLD, NSW, WA only	500mL to 1L/ha	Nil (H)	DO NOT graze or feed treated crops to animals. Avoid contact with spray residue. Keep unprotected persons out of treated areas for at least 24 hours. Ovicide/Larvicide: Check crops every 2 to 3 days for egg and larval numbers. Pre-Squaring: Initiate sprays when significant number of eggs are present, i.e. 75 eggs per 100 plants. Continue at 4 to 5 day intervals while egg numbers are above these levels and larvae control is adequate. Add an effective larvicide at registered rates if significant numbers of small larvae (20 per 100 plants) are present. Squaring: Boll Maturing: Continue above schedule when 50 eggs or more per 100 plant terminals are found. Add an effective larvicide at registered rates if significant numbers of small larvae (10 per 100 plant terminals) are present. If large larvae survive or if <i>Heliothis amigera</i> becomes predominant use higher rates or add other effective larvicides. Refer to appropriate larvicide labels for directions for use. Use higher rate at peak egg laying and when 1st to 2nd instar larvae predominate. Good spray coverage is essential to assure good ovicidal activity. Note: Methomyl may cause reddening of foliage. If excessive, discontinue use.
	Heliothis	QLD, NSW, WA only	1.8 to 2.4L/ha		Larvicide: Apply as an occasional treatment in a spray programme based on alternative insecticides. DO NOT use more often than every 14 days during active growth stages of the crop or alternatively apply up to 3 treatments at minimum of 3 day intervals between treatments after the boll load is set. DO NOT use during periods of plant stress. Note: Methomyl may cause reddening of foliage. If excessive, discontinue use.
	Loopers	QLD, WA only	1.8 to 2.4L/ha		
Cowpeas	Heliothis	NSW, SA, WA only	0.5 or 1L/ha	7 (H)	Ovicide: Apply as detailed for adzuki beans above.
	Green Vegetable Bug		1.5 or 2L/ha 1.5L/ha		Larvicide: Apply as detailed for adzuki beans above. Apply when infestation reaches an economically damaging level and repeat if necessary.
Dubosia	Cluster caterpillar	QLD, WA only	100mL/100L or 1L/ha	–	Apply when pests first appear. Repeat depending on infestation.
Ginger	Heliothis	QLD, WA only	150mL/100L water or 1.5L/ha	–	Apply when damage is evident to young shoots at ground level.
Grapevines / Grapes	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. Concentrate spraying – Refer to the Application section in GENERAL INSTRUCTIONS.				
	Lightbrown Apple Moth, Vine Moth	ALL STATES	Dilute spraying 150mL/100L water	7 (H)	Apply during early shoot growth/flowering if pests are a problem and again just before bunches close, if required. Control at later stages is difficult.
Guar	Green Vegetable Bug, Pod Sucking Bug	QLD, WA only	2L/ha	7 (H)	Apply when significant populations are noted.

CROP	PEST	STATE	RATE	WHP (days)	CRITICAL COMMENTS
Hops	Heliothis	VIC, TAS, WA only	2L/ha	14 (H) DO NOT graze treated crops	Apply when pests first appear. Repeat depending on infestation. For high volume spraying, use at least 1000L/ha of spray mixture. DO NOT use chemicals from the same group for consecutive sprays.
Lentils	Heliothis	QLD, NSW, WA only	1.5 to 2L/ha	7 (H)	Examine crops at least twice weekly during flowering, podding for caterpillars and their damage. Use the higher rate if infestation is heavy.
Lettuce: Field grown head and leafy lettuce (not hydroponic lettuce)	Helicoverpa spp. Larvae	ALL STATES	200mL/100L water or 2L/ha	7 (H)	Apply when pests first appear. Repeat depending on infestation. For high volume spraying, use at least 1000L/ha of spray mixture. DO NOT apply more than 4 applications per crop. There MUST be at least a 3-day interval between consecutive applications. Observe the Western Flower Thrips insecticide resistance management strategy (available from http://www.dpi.nsw.gov.au/agriculture/horticulture/pests-diseaseshort/multiple/thrips/wft-resistance)
	Helicoverpa spp. Ova		100mL/100L or 1L/ha		
	Cluster Caterpillar		200mL/100L or 2L/ha		
	Western Flower Thrips				
Linseed	Heliothis	QLD, NSW, WA only	1.5 to 2L/ha	7 (H)	Apply from early flowering and repeat depending on infestation. Larvae completely enclosed inside bolls may not be controlled. Use high rate for heavier infestations.
Lucerne (forage, hay and seed)		QLD, NSW, VIC, TAS, SA, WA, NT only	1.5 to 2L/ha	3 (G)	Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestations.
		WA only	1 to 2L/ha		
Lupins	Heliothis	QLD, NSW WA only	1.5 to 2L/ha	7 (H)	Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestations.
Mint		VIC, TAS only	1.5 L/ha		
		TAS, WA only	1.5 to 2L/ha	14 (H)	Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestations.
Mung beans (seed)	Heliothis	QLD, NSW, WA, NT only	1.5 or 2L/ha	7 (H)	Larvicide: Apply when pests first appear. Repeat depending on infestation.
		QLD, WA only	500mL to 1L/ha		Ovicide/Larvicide: Refer to Ovicidal/Larvicidal Application instruction for more detail.
	Green Vegetable Bug	QLD, NSW, WA, NT only	1.5 L/ha		Apply when pests first appear. Repeat depending on infestations.
	Bean Pod Borer	QLD, WA, NT only	1.5 to 2L/ha		Note: All Armyworms, except the day feeding Armyworm, feed mainly during the evening so spraying at dusk is recommended.
Pastures native & improved (alone or with legumes)	Armyworms	QLD, NSW, SA, WA only	1.5 or 2L/ha	3 (G)	Apply when pests appear (when webbing is just visible) and repeat if necessary. Ensure thorough spray penetration to obtain effective control of the pest.
	Common Armyworm	VIC, WA only			
	Southern Armyworm	TAS, WA only			
	Buffel Grass Seed Caterpillar	QLD, WA only	1.75L/ha		
Pasture legume seed crops	Heliothis, Lucerne Blue Butterfly		1.5 or 2L/ha		Apply as infestations indicate during the flowering and pod setting period of crop development.
Peaches, Nectarines	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. Concentrate spraying. Refer to the Application section in GENERAL INSTRUCTIONS.				
	Green Peach Aphid	ALL STATES	Dilute spraying 100mL/100L water	1 (H)	Apply when pests first appear. Repeat depending on infestation. DO NOT apply to early peach varieties such as Watts.
	Heliothis	TAS, WA only	Dilute spraying 150mL/100L water		
Peanuts	Heliothis	QLD, WA, NT only	1.5 or 2L/ha	14 (H)	Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestation.
Pears	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. Concentrate spraying – Refer to the Application section in GENERAL INSTRUCTIONS.				
	Lightbrown Apple Moth	VIC, WA only	Dilute spraying 150 to 200mL/ha	2 (H)	Apply at calyx stage from late November onwards and repeat at 14 day intervals or as required depending on infestation.

CROP	PEST	STATE	RATE	WHP (days)	CRITICAL COMMENTS
Peas (including Field peas)	Heliothis	QLD, NSW, SA, WA only	1.5 or 2L/ha	1 (H) Peas 7 (H) Field peas	Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestation. Spray for good coverage and penetration.
		VIC, TAS only	1.5L/ha		
	Loopers Pea Thrips	QLD, NSW, VIC, SA, WA only	100mL/100L water or 1L/ha		
Pigeon peas	Green Vegetable Bug	NSW, WA only	1.5L/ha	7 (H)	Apply when infestation reaches an economically damaging level and repeat if necessary. Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestation.
	Heliothis	QLD, WA only	1.5 or 2L/ha		
Poppies		TAS, WA only		14 (H)	
Potatoes	Potato Moth	ALL STATES		Nil	
	Potato Looper	QLD, WA only	1.5L/ha		
Rapeseed / Canola (Seed)	Cabbage Moth	WA only	1L/ha	7 (H)	Ovicide/Larvicide: Refer to Ovicidal/Larvicidal Application instructions.
	Heliothis	NSW, VIC, TAS, SA, WA only	1.5 to 2/Lha		
		NSW only	500mL to 1L/ha		
Sesame seed	Corn Earworm	QLD, WA, NT only	1.5 to 2L/ha	14 (H)	Apply when significant populations are noted (Refer Larvicidal Application instructions for more detail).
	Green Vegetable Bug		1.5L/ha		
Sorghum	Heliothis	QLD, NSW, WA, NT only	1.5 or 2L/ha	14 (H) 14 (G)	Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestation. Ovicide/Larvicide: Refer to Ovicidal/Larvicidal Application instructions. Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestation. Note: All Armyworms, except the day feeding Armyworm, feed mainly during the evening so spraying at dusk is recommended. Apply when 1 midge/head is present from first emergence, from boot to pollen shedding. Repeat application when significant egg laying recommences.
			500mL or 1L/ha		
	Armyworm	QLD, NSW, WA, NT only	1.5L/ha		
	Sorghum Midge	QLD, WA, NT only	1L/ha		
Soybeans	Green Vegetable Bug	QLD, NSW, WA, NT only	1.5L/ha	7 (H)	Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestation. Larvicide: Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestation. Ovicide/Larvicide: Refer to Ovicidal/Larvicidal Application instructions.
	Loopers	QLD, WA, NT only			
	Heliothis	QLD, NSW, WA, NT only	1.5 or 2L/ha		
			500mL to 1L/ha		
Stone fruit (Cherries, Nectarines, Peaches)	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. Concentrate spraying – Refer to the Application section in GENERAL INSTRUCTIONS.				
	Thrips	QLD, WA only	Dilute spraying 200mL/100L water	1 (H)	Apply at petal fall. Apply as a high volume spray ensuring adequate spray penetration.
Strawberries	Cluster Caterpillar, Heliothis, Loopers	QLD, NSW, VIC, TAS, WA, NT only	150mL/100L water or 1.5L/ha	Fresh: 3 (H) Frozen: 10 (H)	Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestation. Note: To avoid the possibility of taint in strawberries to be frozen, DO NOT apply later than 10 days before harvest.
	Heliothis, Lightbrown Apple Moth	SA, WA only	150 or 200mL/100L water		
Sunflowers	Green Vegetable Bug	QLD only	1.5L/ha	7 (H)	Note: Apply to sunflowers before seed heads turn over, to ensure spray penetration. Ovicide/Larvicide: Refer to Ovicidal/Larvicidal Application instructions.
		NSW, WA only	1.5 or 2L/ha		
	Heliothis	QLD only	1.5L/ha		
		NSW, WA only	1.5L/ha or 2L/ha		
		SA only	2L/ha		
		QLD, NSW, SA, WA only	500mL to 1L/100L		

CROP	PEST	STATE	RATE	WHP (days)	CRITICAL COMMENTS											
Sweetcorn and Maize	Heliothis	ALL STATES	150 or 200mL/100L or 1.5 or 2L/ha	1 (H) Sweetcorn 14 (H) Maize 3 (G) Sweetcorn 14 (G) Maize	Larvicidal: Apply initial spray at early silking or when eggs are first observed on silks. Repeat at 2 to 3 day intervals during silking if infestation continues. Use sufficient spray volume to thoroughly cover developing cobs. Use higher rate on heavier infestations. Note: Maize in NSW only may also require control at tasselling stage.											
			100mL/100L or 1L/ha Sweetcorn NSW only: 500mL to 1L/100L water		Ovicidal: Use this rate only where crops are monitored for eggs and larvae. Apply only when egg-laying occurs. As soon as larvae are present, use Larvicidal rates as recommended above.											
	Armyworm	QLD, NSW, SA, WA, NT only	1.5L/ha		Apply when pests first appear. Repeat depending on infestation. Note: All Armyworms, except the day feeding Armyworm, feed mainly during the evening so spraying at dusk is recommended.											
Sweet peppers (Capsicums)	Heliothis	QLD, WA, NT only	150 or 200mL/100L water	1 (H)	Apply when pests first appear. Repeat depending on infestation, although the spray intervals should not exceed 7 days. Increase spray volume as plants increase in size. Use higher rate on heavier infestations.											
Tea tree	Xylorectid Caterpillar, Psyllid, Leafhopper, Crysomelid Beetle	NSW, WA only	1.5 to 2L/ha	Nil	Apply as a thorough foliar spray.											
Tobacco	Cluster Caterpillar, Heliothis, Tobacco Leafminer, Tobacco Looper	QLD, NSW, VIC, WA only	100mL/100L water	Nil	Apply when pests first occur. Repeat depending on infestation. The following is a guide:											
	Green Vegetable Bug, Leafhopper, Tobacco Thrips	QLD, WA only			<table><tr><th>Plant Age</th><th>Litres spray/ha</th></tr><tr><td>1-3 weeks</td><td>250</td></tr><tr><td>4 weeks</td><td>300</td></tr><tr><td>5 weeks</td><td>450</td></tr><tr><td>6 weeks</td><td>550</td></tr><tr><td>After 6 weeks as required</td><td>900-110</td></tr></table>	Plant Age	Litres spray/ha	1-3 weeks	250	4 weeks	300	5 weeks	450	6 weeks	550	After 6 weeks as required
	Plant Age	Litres spray/ha														
	1-3 weeks	250														
	4 weeks	300														
	5 weeks	450														
	6 weeks	550														
After 6 weeks as required	900-110															
Tobacco Stem Borer	QLD, NSW, WA only	100mL/100L water	Apply 10 days after seedlings emerge and repeat at 6 day intervals (7 day intervals in NSW only) until transplanting.													
Cutworm, True & False Wireworms, Grasshoppers, Seed harvesting ants (seed bed only)	QLD, WA only	150 or 200mL/100L water or 1.5 or 2L/ha	Cutworms and Wireworms: Apply at dusk or late afternoon, using 1 knapsack/30m length of bed. For field plants, ensure base of stem is well covered with spray. Use low rate for Cutworms, high rate for Wireworms. Grasshoppers: Use low rate and apply to fully grown plants when pests first appear. Repeat depending on infestation. Seed harvesting ants: use high rate and apply by pouring directly down the ant hole, in seed beds only.													
Stubby Root Nematode	VIC, WA only	20L/ha	Spray onto soil and incorporate to a depth of 10cm just prior to transplanting.													
Common Brown Leafhopper (vector for tobacco yellow dwarf virus)		45mL/100L water then 450mL/100L water	Apply low rate in transplant water, then 6 weeks later apply high rate as an overall spray.													
Tomatoes	Heliothis	ALL STATES	50 or 100mL/100L water or 500mL or 1L/ha	1 (H)	Ovicide (<i>Helicoverpa armigera</i> only): Apply the low rate when egg numbers indicate potential damage. Use the high rate at peak egg lay and when eggs are mainly in flowers and fruit.											
		NSW, WA only	200mL/100L water		Larvicide: Apply when pests first appear. Repeat depending on pest infestation, although the spray interval should not exceed 7 days. Increase spray volume as plants increase in size. Use higher rate on heavier infestations.											
		QLD, VIC, TAS, SA, WA only	150 or 200mL/100L water													
	Potato Moth, Tobacco Leafminer	QLD, NSW, WA, NT only														
	Green Vegetable Bug	QLD, TAS, WA, NT only	150mL/100L water or 1.5L/ha													
	Loopers		1.5L/ha													

CROP	PEST	STATE	RATE	WHP (days)	CRITICAL COMMENTS
Barley, Oats, Wheat	Armyworms	ALL STATES	1 or 1.5L/ha	14 (H) 14 (G)	Apply when pests appear. Repeat depending on infestation. Use the low rate against larvae up to 20mm long and the high rate against larger larvae. In QLD and WA use low rate for aerial application against Common Armyworm. Note: All Armyworms, except the day feeding Armyworm, feed mainly during the evening so spraying at dusk is recommended.
	Heliothis		1.5 to 2L/ha		Apply when pests appear. Repeat depending on infestation.

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

THIS PRODUCT IS TOO HAZARDOUS FOR USE IN THE HOME GARDEN.

IN TASMANIA, THIS PRODUCT MUST NOT BE APPLIED BY AIRCRAFT WITHOUT THE SPECIFIC APPROVAL OF THE REGISTRAR OF PESTICIDES.

WITHHOLDING PERIODS (WHP)

HARVEST (H) = Harvest

COTTON, DUBIOSIA, GINGER, PASTURE LEGUME SEED CROPS, POTATOES, TEA TREE, TOBACCO: NOT REQUIRED WHEN USED AS DIRECTED.

APPLES, BEANS, BRASSICAS, CENTROSEMA PASCUORUM SEED CROPS, CHICKPEAS, NECTARINES, PEACHES, PEAS, STONEFRUIT, SWEETCORN, SWEET PEPPERS (CAPSICUM), TOMATOES: DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.

PEARS, CITRUS: DO NOT HARVEST FOR 2 DAYS AFTER APPLICATION.

STRAWBERRIES (FRESH): DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION.

BLUEBERRIES: DO NOT HARVEST FOR 5 DAYS AFTER APPLICATION.

ADZUKI BEANS, COWPEAS, FIELD PEAS, GRAPES, GUAR, LENTILS, LETTUCE, LINSEED, LUPINS, MUNG BEANS, PIGEON PEAS, RAPESEED/CANOLA, SOYBEANS, SUNFLOWERS: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.

STRAWBERRIES (FROZEN): DO NOT HARVEST FOR 10 DAYS AFTER APPLICATION.

BARLEY, HOPS, MAIZE, MINT, OATS, PEANUTS, POPPIES, SESAME SEED, SORGHUM, WHEAT: DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION.

GRAZING (G) = Grazing

LUCERNE, PASTURES, SWEETCORN: DO NOT GRAZE OR CUT FOR STOCKFEED FOR 3 DAYS AFTER APPLICATION.

BARLEY, MAIZE, OATS, SORGHUM, WHEAT: DO NOT GRAZE OR CUT FOR STOCKFOOD FOR 14 DAYS AFTER APPLICATION.

COTTON, HOPS AND CROPS NOT OTHERWISE SPECIFIED ABOVE: DO NOT GRAZE OR FEED CROPS TO ANIMALS.

GENERAL INSTRUCTIONS

TITAN Methomyl 225 Insecticide is a water miscible liquid to be dissolved in water for spray application. It is most effective when spray schedules are initiated on young insects. The lower rates are used on small larvae and light infestations, the higher rates on larger larvae and heavy infestations. ALWAYS add a non-ionic agricultural wetting agent at a rate of 0.025% of active material. This is 25mL/100L for most wetting agents.

INSECTICIDE RESISTANCE WARNING

For insecticide resistance management, TITAN Methomyl 225 Insecticide is a Group 1A insecticide. Some naturally occurring insect biotypes resistant to TITAN Methomyl 225 Insecticide and other Group 1A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if TITAN Methomyl 225 Insecticide or other Group 1A insecticides are used repeatedly. The effectiveness of TITAN Methomyl 225 Insecticide on resistant individuals could be significantly reduced.

Since the occurrence of resistant individuals is difficult to detect prior to use, TITAN AG Pty Ltd accepts no liability for any losses that may result from the failure of this product to control resistant insects.

TITAN Methomyl 225 Insecticide may be subject to specific resistance management strategies. For further information contact your local supplier, TITAN AG representative or local agricultural department agronomist.

EXPORT OF TREATED PRODUCE

Growers should note that suitable MRLs or import tolerances may not be established in all markets for produce treated with TITAN Methomyl 225 Insecticide. If you are growing produce for export, please check with TITAN AG for the latest information on MRLs and import tolerances BEFORE using TITAN Methomyl 225 Insecticide.

MIXING

Fill spray tank 1/4 to 1/2 full of water. Start agitation (using mechanical or hydraulic means. NOT air agitation), add required quantity of TITAN Methomyl 225 Insecticide and continue filling with water.

Add non-ionic wetting agents as recommended previously. Continue agitation for several minutes prior to spraying to ensure thorough mixing.

APPLICATION

Apply when wind velocity is low, to avoid drift.

DO NOT apply as a fog or mist.

Proper timing and good coverage is essential for effective insect control.

Larvicidal: Apply at the recommended rates when the insects first appear and repeat as needed. Apply the lower rates on small caterpillars and light infestations of insects.

Use the higher rates on larger caterpillars and heavier infestations. Best control is obtained when spray schedules are initiated on young insects.

Ovicidal/Larvicidal: Use these rates only where crops are regularly monitored for eggs and larvae. Use the lower rate when eggs are present. Use the higher rate when heavy egg lays occur and/or when first to second instar larvae are present (up to 5mm long). If large larvae are present (longer than 5mm), use the larvicide rates as recommended. This product may be used at ovicidal/larvicidal rates in conjunction with other recommended larvicides used to control other insects.

Ground Application: Apply as a coarse spray with low pressure ground equipment. Use sufficient water to obtain thorough, uniform coverage.

SPECIAL INSTRUCTIONS FOR TREE CROPS/VINES

Dilute Spraying

- Use a sprayer designed to apply high volumes of water up to the point of run-off and matched to the crop being sprayed.
- Set up and operate the sprayer to achieve even coverage throughout the crop canopy. Apply sufficient water to cover the crop to the point of run-off. Avoid excessive run-off.
- The required water volume may be determined by applying different test volumes, using different settings on the sprayer, from industry guidelines or expert advice.
- Add the amount of product specified in the Directions for Use table for each 100L of water. Spray to the point of run-off.
- The required dilute spray volume will change and the sprayer set-up and operation may also need to be changed, as the crop grows.

Concentrate Spraying

- Use a sprayer designed and set up for concentrate spraying (this is a sprayer, which applies water volumes less than those required to reach the point of run-off) and matched to the crop being sprayed.
- Set up and operate the sprayer to achieve even coverage throughout the crop canopy using your chosen water volume.
- Determine an appropriate dilute spray volume (see Dilute Spraying above) for the crop canopy. This is needed to calculate the concentrate mixing rate.
- The mixing rate for concentrate spraying can then be calculated in the following way:

EXAMPLE ONLY

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



- The chosen spray volume, amount of product per 100L of water, and the sprayer set-up and operation may need to be changed as the crop grows.
- For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

Air Application

For Cotton, Soybeans, Sorghum, Mung beans, Sunflowers, Pastures, Winter cereals and Linseed only: DO NOT use less than 22L/ha water and increase the spray volume according to density of crop and pest pressure. Turn-off spray boom while passing over creeks or dams.

COMPATIBILITY

This product can be mixed in the spray tank with one of the following insecticides: chlorpyrifos and thiodicarb. As the formulations of other manufacturers products are beyond the control of TITAN AG, all mixtures should be tested prior to mixing commercial quantities.

PRECAUTION

Keep unprotected persons and animals out of operational areas during treatment and while there is a danger of drift. Avoid contact with spray residues.

RE-ENTRY PERIOD

DO NOT allow entry into treated areas for at least 24 hours after treatment. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) a washable hat and elbow length chemical resistant gloves. Clothing must be laundered after each days use.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures. Avoid drift by applying when wind velocity is low.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Dangerous to birds, fish, stock and wildlife. Birds feeding on treated areas may be killed. Dangerous to bees.

DO NOT spray any plants in flower while bees are foraging. Ensure beehives are removed from the area to be treated and from adjacent paddocks.

DO NOT contaminate streams, rivers or waterways with the chemical or used containers. DO NOT re-use container.

STORAGE AND DISPOSAL

KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAMES. Store in the closed, original container in a dry, cool, secure, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilizers.

1L; 5L; 10L; 20L; 200L: Triple rinse containers before disposal. Add rinsings to the 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 for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm 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.

110L: Store in the original sealed Enviro drum in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the drum with water or any water or any other foreign matter. After each use of the product, please ensure the Micro Matic coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the drum have been used, please return the empty drum to the point of purchase. The drums remain the property of TITAN AG Pty Ltd.

1000L: Store in the closed original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Storage must be secure so that contents cannot be tampered with. All locks and/or seals must be in order. If locks or seals are broken prior to initial use then the integrity of this product cannot be assured. If this occurs TITAN AG Pty Ltd should be notified immediately. This minibulk/bulk container is reusable and remains the property of TITAN AG Pty Ltd. DO NOT rinse empty container. Empty contents fully into application equipment. Close all valves and return to the point of supply for refill or storage. No other liquid, solid or pesticide product should be put into it. When empty return to TITAN AG Pty Ltd for cleaning, relabelling and refilling.

SAFETY DIRECTIONS

Very dangerous, particularly the concentrate. Product and spray are poisonous if absorbed by skin contact, inhaled or swallowed. Attacks the eyes. Will irritate the nose, throat and skin. Repeated minor exposure may have accumulative poisoning effect. Avoid contact with eyes, skin and clothing. DO NOT inhale vapour or spray mist. Protect eyes while using. When opening the container and preparing spray, wear elbow-length chemical resistant gloves and a face shield. When using the prepared spray, wear cotton overalls buttoned to the neck and wrist, washable hat, elbow-length chemical resistant gloves, impervious footwear and half-face piece respirator with combined dust and gas cartridge/canister. If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product or spray on skin, immediately wash area with soap and water. After each day's use, wash gloves, face-shield, respirator or face piece and contaminated clothing. Wash rubber respirator with detergent and warm water.

FIRST AID

If swallowed, splashed on skin or in eyes, or inhaled, contact Poisons Information Centre. Phone Australia 131126; New Zealand 0800 764 766 or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. If swallowed, activated charcoal may be advised. Give atropine if instructed.

Advice to Doctor: Methomyl is a reversible cholinesterase inhibitor. Atropine sulphate should be used for treatment, 1.2 to 2.0mg i.v. every 10 to 30 minutes until full atropinisation is achieved. Maintain full atropinisation until patient recovers. DO NOT use morphine or 2-PAM. Artificial respiration or oxygen may be necessary. Allow no further exposure to cholinesterase inhibitors until recovery is assured.

SAFETY DATA SHEET

Additional information is listed in the safety data sheet (SDS). A safety data sheet for TITAN Methomyl 225 Insecticide is available from TITAN AG Pty Ltd on request. Call Customer Service on (02) 9999 6655 or visit www.titanag.com.au

CONDITIONS OF SALE: TITAN AG Pty Ltd shall not be liable for any loss injury damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale supply use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on TITAN AG's skill or judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of TITAN AG Pty Ltd has any authority to add to or alter these conditions.

Additional statements required by Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia: Highly flammable liquid and vapour. Fatal if swallowed. Toxic in contact with skin or if inhaled. Causes damage to organs. Very toxic to aquatic life with long lasting effects. **Precautionary:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical/ventilating/lighting/equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. Ground/bond container and receiving equipment. Use only non-sparking tools. Avoid release to the environment. Take precautionary measures against static discharge. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. **IF SWALLOWED:** Immediately call a POISON CENTER/doctor. **IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water/shower. Specific treatment (see on this label). **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. In case of fire: Use for extinction: CO₂, powder or water spray. Collect spillage. **IF exposed or concerned:** Call a POISON CENTER/doctor. Take off immediately all contaminated clothing and wash it before reuse. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national regulations.

