

POISON

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

TITAN

Dimethoate 400

Systemic Insecticide

ACTIVE CONSTITUENT: 400g/L DIMETHOATE
(an anti-cholestinserase compound)

GROUP **1B** INSECTICIDE

For the control of certain insects including aphids, thrips, jassids, lucerne flea, red-legged earthmite, Queensland fruit fly, leaf hoppers and wingless grasshopper as specified in the Directions for Use table.

IMPORTANT: READ THOROUGHLY BEFORE OPENING OR USING THIS PRODUCT.

APVMA Approval No.: 62511/0108

Pack Size: 10L, 20L, 200L



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IN A TRANSPORT EMERGENCY

DIAL 000

POLICE OR FIRE BRIGADE



UN NO. 3017
ORGANOPHOSPHOROUS,
PESTICIDES, LIQUID,
TOXIC, FLAMMABLE N.O.S.
PACKAGING GROUP: III
HAZCHEM CODE: 3W

DIRECTIONS FOR USE

Restrictions: DO NOT use to control pests which are resistant to organophosphorous insecticides as treatment may be ineffective.
DO NOT apply to any non-food tree crop or plantation (including *Eucalyptus* spp.) by air.

FIELD CROPS

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS	
Cereals, (wheat, barley, oats, triticale)	Wingless Grasshopper	ALL STATES	750mL/ha or 75mL/100L water	4 weeks (H) 1 day (G)	Apply when grasshoppers first appear and re-apply as required. Also spray as a 20m band around areas to be protected.	
	Redlegged Earth Mite	NSW only	85mL/ha		Apply from either boom spray or aircraft in a minimum of 33 litres of water per hectare. Apply 3-5 weeks after autumn opening rains or when pests appear. DO NOT spray bare ground. Wait for crop emergence.	
		VIC, TAS, SA, WA only	55-85mL/ha			
	Lucerne Flea	NSW, VIC, TAS, SA, WA only				Apply when mites appear.
	Blue Oat Mite	WA only	90mL/ha			
	Brown Wheat Mite	QLD, WA only				
Leafhoppers, Cereal Aphids	ALL STATES	500mL/ha		Apply when pests threaten damage to crop.		
Pasture, Pasture Seed & Forage Crops (including clover, medics, cereals, lucerne, legumes for animal feed)	Redlegged Earth Mite, Lucerne Flea	NSW, VIC, TAS, SA, WA only	55-85mL/ha	1 day	Apply from boom spray or aircraft in a minimum of 33 litres of water per hectare. Use the higher rate in NSW and for heavy infestations in other states.	
	Blue Oat Mite	NSW only	90mL/ha		Apply when aphids first appear using sufficient water to ensure thorough coverage. Repeat only if necessary. VIC only: Apply when 20-40 aphids/stem on mature plants and 1-2 aphids/plant in seedlings are present. WA only: Use high rate as first spray or for heavy infestations. Use lower rate for repeat sprays or light infestations.	
	Spotted Alfalfa Aphid, Blue Green Aphid	QLD, NSW, VIC only	150mL/ha			
		TAS only	375mL/ha			
		WA only	150-225mL/ha			
	Blue Green Aphid	SA only	375mL/ha		Apply when insects appear. DO NOT treat when significant predators are present.	
Pangola Aphid	QLD, WA only	190mL/ha		Apply when grasshoppers first appear and re-apply as required. Also spray as a 20m band around areas to be protected.		
Wingless Grasshopper	ALL STATES	750mL/ha or 75mL/100L water				
Leucaena	Leucaena Psyllid	QLD, WA only	340mL/ha	1 day	Apply when pest population builds up.	
Lucerne	Redlegged Earth Mite, Lucerne Flea	NSW only	85mL/ha	1 day	Apply from either boom spray or aircraft in a minimum of 33 litres of water per hectare. Apply 3-5 weeks after autumn opening rains or when pests appear. DO NOT spray bare ground. Wait for crop emergence.	
	Bean Fly		340mL/ha		Apply when insects appear or as required.	
	Leafhoppers (including Jassids)	QLD, VIC, TAS, SA, WA only	340mL/ha		Apply when grasshoppers first appear and re-apply as required. Also spray as a 20m band around areas to be protected.	
	Blue Oat Mite	NSW, WA only	90mL/ha			
	Pea Aphid	NSW, VIC, WA only	150mL/ha			
	Wingless Grasshopper	ALL STATES	750mL/ha or 75mL/100L water			
	Spotted Alfalfa Aphid, Blue Green Aphid	QLD, NSW, VIC only	150mL/ha			
		TAS only	375mL/ha			
	WA only	150-225mL/ha				
Blue Green Aphid	SA only	375mL/ha	Apply when aphids first appear using sufficient water to ensure thorough coverage. Repeat only if necessary. VIC only: Apply when 20-40 aphids/stem on mature plants and 1-2 aphids/plant in seedlings are present. WA only: Use high rate as first spray or for heavy infestations. Use lower rate for repeat sprays or light infestations.			
Maize	Maize Leafhopper, Thrips	QLD, WA only	500mL/ha	4 weeks (H)	Apply 2 sprays 5-7 days apart.	
Sorghum	Aphids	QLD, WA only	500mL/ha	1 day (G)	Apply as required.	
Tobacco	Lucerne Flea, Redlegged Earth Mite	NSW, WA only	80mL/100L water	4 weeks	Apply spray to tobacco in seed bed when insects are present. Re-apply after 7 days if necessary.	

FIELD LEGUMES

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Adzuki beans, Cowpeas, Pigeon peas, Mung beans, Navy beans, Borlotti beans, Chickpeas, Lupins	Aphids (excluding Green Peach Aphid)	ALL STATES	500mL/ha	7 days	Apply when flower spikes carry 20 to 50 aphids and repeat as necessary.
	Mirid Bugs				Apply when insects first appear and repeat as necessary.
	Thrips (including Bean Blossom Thrips), Bean Fly, Leafhoppers (including Jassids), Green Peach Aphid		800mL/ha or 75mL/100L water		For Thrips (excluding Bean Blossom Thrip): Two treatments between flower bud formation and pod initiation may be necessary. Apply both sprays early during this period if infestation is prolonged or severe. Use sufficient water to ensure thorough coverage. For Beanfly, Bean Blossom Thrips and Leafhoppers (including Jassids): Apply when pests appear. For Green Peach Aphid: Apply when flower spikes carry 20 to 50 aphids and repeat as necessary.
Field peas and beans	Aphids, Thrips, Leafhoppers (including Jassids), Mites (including Spider mites), Bugs (including Green Vegetable Bug), Bean Fly, Redlegged Earth Mite		75mL/100L water or 800mL/ha		Apply when insects first appear and repeat as necessary. For Green Vegetable Bug: Apply at first flowering and repeat 3 weeks later.
Lentils	Redlegged Earth Mite		90mL/ha		Apply when pest appears.
Soybeans	Green Vegetable Bug, Leafhoppers (including Jassids)		340mL/ha		

SEED DRESSINGS

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Lupins	Redlegged Earth Mite	NSW, VIC, TAS, SA, WA only	75mL/600mL water/50 kg seed	-	Mix thoroughly in drum or cement mixer. The addition of a surfactant will give better coverage and penetration. Sow seed as soon as possible after treatment. DO NOT use TITAN Dimethoate 400 Systemic Insecticide when it is necessary to inoculate seed. DO NOT use treated seed for any other purpose eg. animal feed.
Peas					
Sub-clover					
Lucerne		150mL/900mL water/50kg seed			
Linseed, Canola		VIC, TAS, SA, WA only	150mL/600mL water/50kg seed		Use rolling drum or cement mixer. Avoid using this product with inoculated seed. Sow as soon as possible after treatment.

OILSEED AND FIBRE CROPS

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Oilseeds (including Mustard, Linseed, Peanut, Poppy, Canola, Safflower, Sunflower)	Wingless Grasshopper	ALL STATES	750mL/ha or 75mL/100L water	14 days	Apply at first sign of pests. Repeat as required.
	Redlegged Earth Mite	NSW only	85mL/ha		Apply from either boom spray or aircraft in a minimum of 33 litres of water per hectare. Apply 3-5 weeks after Autumn opening rains or when pests appear. DO NOT spray bare ground. Wait for crop emergence.
		VIC, TAS, SA, WA only	55-85mL/ha		
	Lucerne Flea	NSW, VIC, TAS, SA, WA only			Apply 3-5 weeks after Autumn opening rains or when pest outbreak occurs. DO NOT spray bare ground. Wait for pest emergence. Use higher rates in cold, wet weather.
	Leafhoppers (including Jassids), Green Vegetable Bug	ALL STATES	350mL/ha		
Cotton	Aphids, Spider Mites (including Red Spider, Twospotted Mite)	QLD, NSW, WA only	500mL/ha	14 days	Apply when pests appear and repeat as required. Use higher rate for heavy infestation. Note: Some strains of spider mites are resistant to organophosphorous compounds. DO NOT use this product when resistant strains are present.
	Thrips		300-375mL/ha		
	Wingless Grasshopper		750mL/ha or 75mL/100L water		
	Leafhopper (including Jassids)		350mL/ha		

OILSEED AND FIBRE CROPS – continued

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Cotton – <i>continued</i>	Bugs (including Green Vegetable Bug, Mirids, Apple Dimpling Bug, Brown Smudge Bug, Brokenbacked Bug, Rutherglen Bug)	QLD, NSW, WA only	340-500mL/ha	14 days	Apply when pests appear and repeat as required. Use higher rate for heavy infestations.
Sesame	Aphids	ALL STATES	500mL/ha		Apply when pests threaten damage to crops.
Sunflower	Thrips, Twospotted Mite	QLD, WA only	800mL/ha	14 days	Apply as required.
Peanuts	Aphids, Peanut Mite, Thrips	QLD, NSW, WA only	340mL/ha	7 days	Apply when insects appear.

FRUIT CROPS

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Abius, Babacos, Carambolas (Five Corner), Casmiroas (White Sapote), Granadillas, Santols, Sapodillas (Chikus), Wax Jambus	Queensland Fruit Fly	QLD, NSW, WA only	75mL/100L water	7 days	Apply when pests appear and repeat as required.
Bananas	Paper Wasps	NSW, WA only			Spray when wasp activity reaches high level. Thoroughly cover foliage and stems with spray.
	Banana Silvering Thrips, Mites	QLD, NSW, WA, NT only			Apply when pests appear. Use a minimum of 1000L.
	Banana Fruit Fly	QLD, NSW, WA, NT only			Apply when pests appear.
Berry Fruits (including Blackberries, Currants, Mulberries, Raspberries, Strawberries)	Aphids, Thrips, Leafhoppers (including Jassids), Mites (including Spider Mites), Redlegged Earth Mite	ALL STATES	75mL/100L water	7 days	Apply when pest first appears and repeat at 3 weekly intervals or as necessary. Some strains of spider mites are resistant to organophosphorous compounds.
	Strawberry Bug, Rutherglen Bug	QLD, VIC, TAS, SA, WA only			
Blueberries	Queensland Fruit Fly	NSW, WA only	75mL/100L water	1 day	Apply 3, 2 and 1 weeks before harvesting when fruit fly are numerous. Apply in the afternoon after bees cease foraging.
Strawberries	Queensland Fruit Fly, Wingless Grasshopper	NSW, WA only			Apply when pests first appear. DO NOT spray plants in flower while bees are foraging.

TREE AND VINE CROPS

This table shows rates for dilute spraying. For concentrate spraying, refer to the Mixing/Application section.					For all uses in this table: Apply by dilute or concentrate spraying equipment. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. DO NOT use at rates greater than 5 times the dilute spraying rate.
CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Avocado	Queensland Fruit Fly	QLD, WA only	75mL/100L water	7 days	Apply as required.
Citrus (including Oranges, Lemons, Mandarins, Limes) Note: DO NOT use on Meyer Lemons, Seville Oranges or Cumquats	Queensland Fruit Fly	QLD, NSW, VIC, WA, NT only			
	Mediterranean Fruit Fly	VIC, WA only			
			NSW only	150mL/100L water	
	Aphids, Thrips, Wingless Grasshopper	ALL STATES		75mL/100L water	
	Bugs (including Bronze Orange Bug)	QLD, NSW, VIC, SA, WA only			
Custard Apple	Queensland Fruit Fly	QLD, WA, NT only			Apply every 7-14 days as required during fruit ripening. Usually required only in late season. Harvesting at mature green stage overcomes this problem to some extent.

TREE AND VINE CROPS – continued

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Grapes	Queensland Fruit Fly	QLD, WA only	75mL/100L water	7 days	Apply as pest populations indicate.
	Aphids, Thrips, Leafhoppers (including Jassids), Mites (including Spider Mites)	QLD, VIC, TAS, SA, WA only			Apply when pests first appear and repeat at 3 weekly intervals or as necessary. Some strains of spider mites are resistant to organophosphorous compounds.
Litchi	Litchi Erinose Mite	QLD, NSW only			Pre-planting dip: Immerse plants in mixture for 1 minute and drain before planting in the field. Established trees: Apply just before a growth flush and repeat at 14-21 day intervals until all new growth is damage-free.
Mangoes, Passionfruit, Papaw	Queensland Fruit Fly	QLD, NSW, VIC, WA, NT only			Apply as a cover spray at first sign of infestation.
	Mediterranean Fruit Fly	NSW, VIC, WA only			
Passionfruit	Aphids	NSW, WA only			
Papaw	Cucumber Fly	QLD, WA only			Apply only to ripe or ripening fruit as required.
Pome Fruits (including Apples, Pears, Quinces)	Queensland Fruit Fly	QLD, NSW, VIC, WA only			QLD, NSW, VIC only: Apply full cover sprays at 7 and 5 weeks before harvest. WA only: Apply about 6 weeks before the fruit ripens. Re-apply at fortnightly intervals. The last spray should be one week before the fruit ripens.
	Mediterranean Fruit Fly	VIC, WA only			
	Aphids, Thrips, Wingless Grasshopper	ALL STATES			Apply when pest first appears and repeat at 3 weekly intervals or as necessary.
Stone Fruits (including Peaches, Plums, Nectarines, Cherries)	Queensland Fruit Fly	QLD, NSW, SA, WA only			NSW, VIC, SA only: Apply full cover sprays at 4 and 3 weeks before harvest. QLD only: Apply 4 and 2 weeks before harvest. WA only: Apply about 6 weeks before the fruit ripens. Re-apply at fortnightly intervals. The last spray should be one week before the fruit ripens. DO NOT use on apricots or early peach varieties.
	Mediterranean Fruit Fly	NSW, VIC, WA only			
	Aphids, Thrips, Wingless Grasshopper	ALL STATES			Apply when pest first appears and repeat at 3 weekly intervals or as necessary.

VEGETABLES

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Vegetables (General) (includes Legume, Fruiting, Cucurbit, Leafy, Stalk, Stem, Cole, Root, Bulb & Tuber Vegetables)	Aphids, Thrips, Leafhoppers (including Jassids), Mites (including Spider Mite, Tomato Mite), Bugs (including Green Vegetable Bug)	ALL STATES	750mL/ha or 75mL/100L water	7 days (cucurbits 1 day)	Apply when pests first appear. For Green Vegetable Bug apply at first flowering and repeat 3 weeks later. DO NOT spray when bees are foraging. Note: Some strains of Spider Mites are resistant to organophosphorous compounds.
	Wingless Grasshopper				Apply when grasshoppers first appear and re-apply as required. Also spray as a 20m band around the areas to be protected.
Peas and beans	Bean Fly	ALL STATES			Apply when insects appear and repeat as necessary. Use the higher rate in cold weather.
	Cow Pea Aphid	NSW, WA only	350-650mL/ha		
	Redlegged Earth Mite	NSW, VIC, TAS, SA, WA only	800mL/ha or 75mL/100L water		
Capsicums	Fruit Fly	QLD, NSW, WA only	750mL/ha or 75mL/100L water	3 days	Apply when pests first appear and repeat as required.
Cucurbits (including Cucumber, Zucchini, Squash, Melons, Pumpkins, Chokos, Marrows, Gherkins and others)	Cucumber Fly	QLD, NSW, NT only	75mL/100L water	1 day	
		NSW only			

VEGETABLES – continued

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Tomatoes	Queensland Fruit Fly	QLD, NSW, VIC, WA only	750mL/ha or 75mL/100L water	7 days	QLD, NSW only: Apply full cover sprays at 4 and 3 weeks prior to harvest. VIC only: Apply at 7 and 5 weeks prior to harvest. WA only: Apply about 6 weeks before fruit ripens. Re-apply at fortnightly intervals. Last spray 1 week before ripening. Misting Machine: Apply 850mL/min. 70L water/ha.
	Mediterranean Fruit Fly	NSW, VIC, WA only			
	Bryobia Mite	VIC, TAS, SA, WA only	60mL/100L water		
Carrots, Beetroot, Onions, Parsnips	Redlegged Earth Mite	NSW, VIC, TAS, SA, WA only	750mL/ha or 750mL/100L water		Apply at first sign of pests. Repeat as required.
Beetroot, Celery, Lettuce, Silverbeet	Leafmining Fly	NSW only	750mL/ha or 750mL/100L water		Apply at first sign of pests. Repeat as required.

POST HARVEST DIPPING

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Avocado	Queensland Fruit Fly	NSW, WA only	Charge the dip at the rate of 100mL/100L water	-	Dip the fruit for 1 minute and allow to drain before packing.
Bananas	Fruit Fly	NSW, WA only	75mL/100L water		Dip fruit for 10-60 seconds. Top up with concentration of 125-150mL/100L.
Chinese Gooseberries, Lychees, Persimmons (Dipping)	Queensland Fruit Fly	NSW, WA only	Charge the dip at the rate of 100mL/100L water		Dip the fruit for 1 minute and allow to drain before packing.
Cherries	Fruit Fly	WA, VIC only	50mL/100L water		Dip fruit for a minimum of 30 seconds.
Custard Apple	Queensland Fruit Fly	NSW, WA, NT only	Charge the dip at the rate of 100mL/100L water		Dip the fruit for 1 minute and allow to drain before packing.
Mangoes, Pawpaws, Passionfruit (Dip)	Queensland Fruit Fly	NSW, WA only	Charge the dip at the rate of 100mL/100L water		Dip the fruit for 1 minute and allow to drain before packing.

POST HARVEST DIPPING - NOTE: THIS IS A QUARANTINE TREATMENT ONLY

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Apples, Apricots, Avocados, Bananas, Cactus Fruit, Chilli, Custard Apples, Eggplant, Feijoas, Figs, Guavas, Kiwifruit, Loquats, Mangoes, Nectarines, Pawpaws, Banana Passionfruit, Passionfruit, Peaches, Pears, Pepinos, Persimmons, Plums, Pomegranates, Quinces, Tamarillos	Mediterranean Fruit Fly, Queensland Fruit Fly (<i>Dacus tryoni</i>)	QLD, NSW, NT only	100mL/100L water	-	Dipping: Immerse produce in emulsion for 1 minute or according to the requirements of the importing State or Country. Topping Up (400ppm dimethoate emulsion only): Top up with a separately prepared 400ppm (100mL/100L) emulsion. Reinforcement (400ppm dimethoate emulsion only): After each week, add 3mL of product/100L of dip emulsion. Note: 1. Refer also to Refnote R6/Feb 83 (Agdex 201/681). "FRUIT AND VEGETABLES - stability of dimethoate in dips". 2. 400ppm is the dip concentration required for fruit fly susceptible produce destined for interstate markets. For other destinations, the requirements may differ (e.g. fruit for export to New Zealand has to be treated at 500ppm concentration); check with the relevant authorities.
Mangoes	Darwin Fruit Fly (<i>Batrocera aquilonis</i>)	NT only			
Cherries	Queensland Fruit Fly (<i>Dacus tryoni</i>)	WA, VIC only	50mL/100L water		
Tomatoes		QLD, NT only			

POST HARVEST DIPPING - NOTE: THIS IS A QUARANTINE TREATMENT ONLY – continued

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Cherry Tomatoes	Queensland Fruit Fly (<i>Dacus tryoni</i>)	NT only	100mL/100L water	–	Immerse product in emulsion for one minute or according to the requirements for the importing State or Country. Alternatively, apply thoroughly as an on-line post harvest spray. Topping Up (400ppm dimethoate emulsion only): After each week, add 3mL of 400g/L product/100L of dip emulsion. See notes (1) and (2) above.
Capsicums	Queensland Fruit Fly (<i>Dacus tryoni</i>)	QLD, NT only	100mL/100L water	–	Apply thoroughly as an on-line post harvest spray according to the requirements of the importing State or Country. Topping Up (400ppm dimethoate emulsion only): Top up with a separately prepared 400ppm (100mL/100L) emulsion. Reinforcement (400ppm dimethoate emulsion only): After each week, add 3mL of 400g/L product/100L of emulsion. See notes (1) and (2) above.

MISCELLANEOUS

Restraint: DO NOT apply to any non-food tree crop (except Oil Tea Tree) or plantation (including *Eucalyptus* spp.) by air.

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Ornamental Shrubs	Sap-sucking and Leafeating Insects (including Aphids, Mites, Leafhoppers (including Jassids), Mealybugs, Sawflies, Leafminers, White Flies, Wingless Grasshopper, Psyllids, Scales, Leafhoppers, Scarab and Leaf Beetles and	ALL STATES	75mL/100L water	–	Apply when pests first appear ensuring thorough coverage of foliage. Repeat as required. Apply late afternoon to prevent burning of foliage and to avoid affecting foraging birds and beneficial insects. DO NOT spray prior to or during rain. Avoid spray drift. DO NOT harvest fruit or other produce from sprayed trees. DO NOT use on Chrysanthemums, Begonias, Liquidamber or Gloxinias.
Ornamental Farm and Forest Trees	Beetle Larvae, Moth Caterpillars, Lace Bugs, Gall Insects) Azalea Lace Bug, Green Vegetable Bug, Rutherglen Bug	WA only	310mL/100L water	–	Foliage Spray Method: Apply when pests first appear ensuring thorough coverage of foliage. Repeat as required. Apply late in the afternoon to prevent burning of foliage and to avoid affecting foraging birds and beneficial insects. DO NOT spray prior to or during rain. Avoid spray drift. DO NOT harvest fruit or other produce from sprayed trees. DO NOT spray trees grazed by domestic animals or native arboreal mammals. For Jarrah Leaf Miner in WA spray in early June. For Psyllids in WA spray in early Spring. For Kurrajong Leaf Miner in WA spray in late January.
		NSW only	400mL + 250mL surfactant/100L water		
		QLD only	75mL/100L water		
		QLD, NSW, WA only	1.0L/1.0 L water (use 3mL mixture/cm of tree diameter		
Wild Flowers, Protea	Aphids, Thrips, Leaf Hoppers, Rutherglen Bug	WA only	75mL/100L water	–	Apply when pests appear. Dimethoate will not control OP resistant pests.
Duboisia	Thrips	QLD, WA only	750mL/ha or 75mL/100L water	–	Apply as pest populations indicate.
Oil Tea Tree (<i>Melaleuca alternifolia</i>)	Tip-Gall Midge (<i>Dasineura</i> Sp.), Psyllids, Pyrgo Beetle	QLD, NSW only	340mL/ha	5 months	Monitor the build up of Tip-Gall Midge in Spring by counting the trapped midge in spider webs. Spray when 10 percent of the growing points are showing the damaging effects of the Tip-Gall Midge larvae. Boom Spray: Apply in 50-100L water/ha. Aircraft: Apply in 20-40L water/ha. Rotate pyrethroid pesticides during Summer when spraying Pyrgo Beetle. Use methomyl products as the last seasonal spray for cleaning up any dimethoate or pyrethroid resistant Pyrgo Beetles. Apply a maximum of 2 applications per crop growing cycle with a maximum of six weeks between applications.

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

WITHHOLDING PERIODS:

HARVEST

CEREALS, SORGHUM, MAIZE, TOBACCO:

OILSEED AND FIBRE CROPS (EXCEPT PEANUTS):

OIL TEA TREE:

PEANUTS, FIELD LEGUMES, FRUIT, VEGETABLES (EXCEPT BLUEBERRIES, CUCURBITS, CAPSICUM AND STRAWBERRIES):

CAPSICUM:

BLUEBERRIES, CUCURBITS, STRAWBERRIES:

GRAZING

PASTURE, PASTURE SEED AND FORAGE CROPS, LEUCAENA, LUCERNE, MAIZE, SORGHUM, CEREALS:

DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION.

DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION.

DO NOT HARVEST FOR 5 MONTHS AFTER APPLICATION.

DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.

DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION.

DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.

DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 1 DAY AFTER APPLICATION.

DIPPING (AVOCADOS, CHINESE GOOSEBERRIES, LYCHEES, PERSIMMONS, BANANAS, CHERRIES, CUSTARD APPLES, MANGOES, PAW PAWS, APPLES, APRICOTS, CACTUS FRUIT, CHILLI, EGGPLANT, FEIJOAS, FIGS, GUAVAS, KIWIFRUIT, LOQUATS, NECTARINES, PASSIONFRUIT, BANANA PASSIONFRUIT, PEACHES, PEARS, PEPINOS, PLUMS, POMEGRANATES, QUINCES, TAMARILLOS, TOMATOES, CHERRY TOMATOES, CAPSICUMS), DUBOISIA, ORNAMENTALS, SEED DRESSINGS (LUPINS, PEAS, LUCERNE, CLOVER, LINSEED, CANOLA), TREES:

NOT REQUIRED WHEN USED AS DIRECTED.

GENERAL INSTRUCTIONS

This preparation may not give the desired control where a resistance to dimethoate occurs.

MIXING

The product can be poured directly into the vat with agitators in operation. If combined with another product, mix each product separately in a quantity of water before adding to the spray tank.

Post Harvest Dipping: Queensland authorities advise growers using dimethoate dips, to change their solution every day to comply with quarantine requirements. Users should ensure they read and comply with state guidelines on the correct dimethoate dipping procedures for fruit.

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

EXAMPLE ONLY

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

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.

COMPATIBILITY

The product is compatible with any ONE of the following products: Copper Oxychloride, Mancozeb, Thiram 800, Ziram. DO NOT mix with alkaline materials such as Bordeaux mixture or Lime Sulphur.

INSECTICIDE RESISTANCE WARNING

For insecticide resistance management TITAN Dimethoate 400 Systemic Insecticide is a **GROUP 1B INSECTICIDE**. Some naturally occurring insect biotypes resistant to TITAN Dimethoate 400 Systemic Insecticide and other Group 1B insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if TITAN Dimethoate 400 Systemic Insecticide or other Group 1B insecticides are used repeatedly. The effectiveness of TITAN Dimethoate 400 Systemic Insecticide on resistant individuals could be significantly reduced.

Since occurrence of resistant individual is difficult to detect prior to use, TITAN AG Pty Ltd accepts no liability for any losses that may result from the failure of DIMETHOATE 400 to control resistant insects.

TITAN Dimethoate 400 Systemic Insecticide may be subject to specific resistant management strategies. For further information contact your local supplier, TITAN AG Pty Ltd or local agricultural department agronomist.

PROTECTION OF LIVESTOCK

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

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate, streams, rivers or waterways with the chemical or used containers.

STORAGE AND DISPOSAL

Store in the closed original container at room temperature (below 30°C) in a dry, well-ventilated area. Protect from direct sunlight and avoid temperatures above 30°C. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals onsite. 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 500mm 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.

DIP DISPOSAL

Add 3 kg either slaked, hydrated or quick lime per 1000 litres of dip solution in a separate vessel to the dipping tank. Leave that mix for one or two hours to neutralise the chemical component. The inactivated mix can then be poured into a trench or sprayed on grass. DO NOT flush to rivers, creeks or drain ways.

SAFETY DIRECTIONS

Product and spray are poisonous if absorbed by skin contact, inhaled or swallowed. Repeated minor exposure may have a cumulative poisoning effect. Avoid contact with eyes and skin. DO NOT inhale spray mist. When opening the containers and preparing spray wear cotton overalls buttoned to the neck and wrist, washable hat, elbow-length PVC gloves, face shield and impervious footwear. When using the prepared spray, wear cotton overalls buttoned to the neck and wrist, washable hat, elbow-length PVC gloves, impervious footwear and half-face respirator with combined dust and gas cartridge (canister). If product or spray on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash contaminated clothing, gloves, respirator and face shield and if rubber wash with detergent and warm water.

FIRST AID

If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre Phone eg Australia 131 126; 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.

MATERIAL SAFETY DATA SHEET

Additional information is listed in the material safety data sheet (MSDS). A material safety data sheet for TITAN Dimethoate 400 Systemic Insecticide is available from TITAN AG Pty Ltd on request. Call Customer Service on (02) 9986 2943 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.

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