



POISON

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

Nufarm

Dimethoate

Systemic Insecticide

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

SOLVENT: 255g/L HYDROCARBON LIQUID

GROUP **1B** INSECTICIDE

For the control of a wide range of pests on fruit, vegetables, pastures, cotton, lucerne, peanuts and ornamentals as per the Directions For Use table.

READ COMPLETE DIRECTIONS FOR USE BEFORE USING THIS PRODUCT.

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APVMA Approval No.: 32962/104879

DIRECTIONS FOR USE

RESTRAINTS

DO NOT apply to any non-food tree crop (except oil tea tree) or plantation (including Eucalyptus spp.) by air.

DO NOT USE as a post-harvest treatment for capsicum or tomatoes.

DO NOT USE as a post-harvest quarantine treatment for capsicum or tomatoes.

DO NOT USE on tomatoes grown in covered or protected situations such as glasshouses, green houses or plastic tunnels.

DO NOT USE on cherry, grape or mini tomatoes

DO NOT USE as a foliar, post harvest or quarantine treatment on:

- Tropical or subtropical edible peel fruit [babacos, carambolas (Five Corner), figs and edible peel varieties of guavas, kiwifruit and persimmons]
- Pome fruit [apples, loquats, pears, quinces]
- Stone fruit after petal fall [apricots, cherries, nectarines, peaches, plums]
- Grapes after commencement of flowering
- Berry fruit (other than blackberries, raspberries, bilberries, blueberries and other vaccinium berries)
- Strawberries (except strawberry runners – vegetative planting material only)
- Vegetables, other than those listed below:

Dimethoate may be used on artichoke (globe), asparagus, beans, beetroot, broccoli, cabbage (drumhead varieties only), capsicum, carrot, cauliflower, celery, chilli, peas, potatoes and sweet potatoes, onion, parsnips, radish, rhubarb, sweetcorn, tomatoes for processing, tomatoes (large field grown for fresh consumption, prior to commencement of flowering), turnip and zucchini.

- Cucurbits (Other than melons, watermelons and zucchini)

DO NOT feed Cotton Fodder, Stubble or Trash to Livestock

1. TREE AND VINE CROPS

CROP	PEST CONTROLLED	STATE	RATE	WHP (Days)	CRITICAL COMMENTS
Abius, Avocado, Casimiroas (White Sapote), Granadillas, Santols, Sapodillas (Chikus), Wax Jambus	Queensland Fruit Fly	Qld, WA only	75mL/100L* water	7	Apply when pests appear and repeat as necessary
Banana (pre-harvest)	Silvering Thrips & Mites	Qld, NSW, WA, NT only			Apply in at least 1,000 litres of water per hectare when pests appear. Dimethoate will not control OP resistant mites
	Paper Wasp	NSW, WA only			Spray when wasp activity reaches high level. Thoroughly cover foliage and stems with spray

CROP	PEST CONTROLLED	STATE	RATE	WHP (Days)	CRITICAL COMMENTS
Banana (pre-harvest)	Banana plant destruction and control of banana aphid	NSW, Qld only	For the destruction of banana plants: 100mL Roundup* per 1L water and inject 5-15mL prepared solution per plant and Control of banana aphid: Prepare a solution of 100mL Dimethoate per 100mL water, and inject 30-60mL prepared solution per plant	Do not allow cattle to graze destroyed crop area while plant residue remains. Produce from treated plants must not be supplied to or otherwise be made available for human or animal consumption	Banana aphid control must only be undertaken to plants following the use of Roundup as directed for plant destruction. Roundup and Dimethoate treatments must be applied separately. Pseudostem: Inject prepared solutions into pseudostem above the growing point. Inject plants over 1 metre tall at two points (Roundup) and three points (Dimethoate) around the stem. Suckers: Inject suckers up to 1 metre tall at lower rate, at one point. Bunches: Where bunches are present, spray the surface of the fruit with red marker dye. Inject once only with each treatment and leave plant to dry out before disturbing further. The treated produce and other plant material must be disposed of appropriately as per local DPI recommendations
Citrus Fruit (except Meyer Lemons, Seville Oranges & Cumquats Mandarins	Queensland Fruit Fly	NSW, Vic, Qld, WA, NT only	75mL/100L* water	7	Do not use on Meyer lemons, Seville oranges and cumquats. Apply 2 full cover sprays 2 weeks apart 7 weeks and 5 weeks before harvest. If harvesting is delayed a third spray may be required. WA ONLY Apply about 6 weeks before the fruit ripens. Re-apply at fortnightly intervals. The last spray should be made one week before the fruit ripens *(refer to mixing/application section) Apply when pests appears and repeat as necessary *(refer to mixing/application section) Apply when grasshoppers appear and reapply as required. In addition to the infested area spray a band of about 20 metres around the areas to be protected
	Mediterranean Fruit Fly	Vic, WA only NSW, WA only	150mL/100L water		
	Aphids, Thrips	All States	75mL/100L* water		
	Bronze Orange Bug	NSW, Vic, Qld, SA, WA only			
	Wingless Grasshopper	All States			
Custard Apple	Queensland Fruit Fly	Qld, WA, NT only	75mL/100L* water	7	Apply every 7-14 days as required during fruit ripening. Usually required only in late season: harvesting at mature green stage overcomes the problem to some extent. *(refer to mixing/application section)
Grapes (Pre -flowering uses only)	Queensland Fruit Fly	Qld, WA only	75mL/100L* water	-	Apply when pest appears and repeat as necessary. DO NOT use after flowering commences.
	Aphids, Thrips, Jassids, Mites (inc. Spider Mites)	Qld, Vic, SA, WA, Tas only		-	Apply when pests first appear and repeat at 3 weekly intervals or as necessary. Dimethoate will not control OP resistant mites. DO NOT use after flowering commences.
Stone fruit prior to petal fall	Aphids	All States	75mL/100L* water	-	Apply when pests appear and repeat as necessary. DO NOT use after petal fall.
	Thrips, Wingless Grasshoppers				Apply when pests appear and repeat as necessary. DO NOT use after petal fall.
Mangoes	Queensland Fruit Fly	Qld, NSW, Vic, WA, NT only	75mL/100L* water	3	Apply when pests appear and repeat as necessary.
	Mediterranean Fruit Fly	WA, Vic, NSW only			
Pawpaw, Passionfruit	Queensland Fruit Fly	Qld, NSW, Vic, WA, NT only	75mL/100L* water	7	Apply when pests appear and repeat as necessary. Apply when pest appears and repeat at 3 weekly intervals or as necessary.
	Mediterranean Fruit Fly	WA, Vic, NSW only			
	Aphids (Passionfruit only)	NSW, WA only			
	Cucumber Fly (Paw Paw only)	Qld, WA only			

2. FRUIT AND VEGETABLE CROPS

CROP	PEST CONTROLLED	STATE	RATE	WHP Days	CRITICAL COMMENTS
Bean	Bean Fly	All States	75mL/100L* water	7Harvest 7Grazing	Apply 3 and 7 days after crop emergence and then at weekly intervals until blossom. *(refer to mixing/application section)
	Spider Mites, Thrips, Jassids, Green Vegetable Bug, Aphids		75mL/100L water		Apply when pests appear and repeat as necessary. For Green Vegetable Bug in beans apply at first flowering and repeat 3 weeks later. *(refer to mixing/application section)
	Redlegged Earth Mite	NSW, Vic, SA, WA, Tas only			Dimethoate will not control OP resistant mites. Apply when pests appear and repeat as necessary.

CROP	PEST CONTROLLED	STATE	RATE	WHP Days	CRITICAL COMMENTS
Beans, Peas	Cow Pea Aphid	NSW, WA only	350-650mL/ha	7Harvest 7Grazing	Apply when pests appear and repeat as necessary. Use the higher rate in cold water.
Blueberries, Billberries and other vaccinium berries	Aphids, Jassids, Spidermites, Redlegged earth mite	All States	75mL/100L* water or 750mL/ha	1	DO NOT exceed a maximum number of 7 applications per crop per season with a minimum 21 day interval between application. Apply in the afternoon when bees have finished foraging. *(refer to mixing/application section) Dimethoate will not control OP resistant mites.
	Strawberry bug, Rutherglen bug	Qld, Vic, SA, WA, Tas only			
	Queensland Fruit Fly	NSW, WA only			
Blackberries and raspberries	Aphids, Thrips, Jassids, Spidermites, Redlegged earth mite	All States	75mL/100L* water or 750mL/ha	7	Apply when pest first appears and repeat at 3 weekly intervals or as necessary. Dimethoate will not control OP resistant mites.
Strawberries, runner production – vegetative planting material only	Aphids, Thrips, Jassids, Spidermites	All States	75mL/100L* water or 750mL/ha	-	Apply when pest first appears and repeat at 3 weekly intervals or as necessary. Dimethoate will not control OP resistant mites. DO NOT apply to the whole field area. Apply to the bed, planted area or area covered by plants only, not area such as walkways. DO NOT use on fruiting strawberries.
	Strawberry bug, Rutherglen bug	Qld, Vic, SA, WA, Tas only			
Capsicum	Aphids, Thrips, Green Vegetable Bug, Jassids	All States	75mL/100L water	3	Apply when pests appear and repeat as necessary.
	Cucumber Fly	NSW, WA only	75mL/100L* water		
	Fruit Fly	NSW, Qld, WA only	75mL/100L* water or 750mL/ha		
Zucchini, melons and watermelons	Cucumber Fly	NSW, Qld, NT only	75mL/100L* water or 750mL/ha low volume	1	Apply when pests appear and repeat as necessary. *(refer to mixing/application section)
	Aphids, Thrips, Green Vegetable Bug, Jassids	All States			
Litchi	Litchi Erinose Mite	Qld, NSW, WA only	75mL/100L* water	7 Harvest	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. *(refer to mixing/application section).
Peas (green vegetables)	Spider Mites, Thrips, Jassids, Green Vegetable Bug, Aphids, Bean Fly	All States	75mL/100L*	7Harvest 7 Grazing	Apply when pests appear and repeat as necessary. For Green Vegetable Bug apply at first flowering and repeat 3 weeks later. Do not spray when bees are foraging. *(refer to mixing/application section)
	Redlegged Earth Mite	NSW, Vic, SA, Tas, WA only			
Asparagus, Rhubarb	Aphids, Thrips, Jassids, Mites, Leaf Hoppers, Green Vegetable Bug Wingless Grasshopper	All States	75mL/100L* water or 750mL/ha	7	Apply when pests appear and repeat as necessary. Dimethoate will not control OP resistant mites. *(refer to mixing/application section)
Broccoli, Cabbage (drumhead varieties only), Cauliflower				21	
Beetroot, Carrot, Artichoke (globe), parsnips, potatoes, radish, Sweet Potatoes, turnip			75mL/100L* water or 750mL/ha	14	Apply when grasshoppers appear and re-apply as required. In addition to the infested area spray a band of about 20 metres around areas to be protected. *(refer to mixing/application section)
Beans, Peas (green vegetables), sweetcorn				7Harvest 7 Grazing	
Capsicums, Chilli peppers				3	
Zucchini				1	
Root vegetables Onions				7 Harvest	
Carrots, Beetroot, Parsnips				14 Harvest	
Beetroot and Celery only	Leafmining fly	NSW only	75mL/100L* water	Beetroot 14 days, Celery 21 days	Apply when pests appear and repeat at 3 weekly intervals as required. *(refer to mixing/application section)

CROP	PEST CONTROLLED	STATE	RATE	WHP Days	CRITICAL COMMENTS
Potatoes, Sweet Potatoes	Thrips, Aphids, Jassids, Green Vegetable Bug	All States	75mL/100L* water	14 Harvest	Apply when pests appear and repeat as necessary.
Tomatoes for processing	Queensland Fruit Fly	Qld, NSW, Vic & WA only	75mL/100L* water or 750mL/ha	21 days	Two applications as thorough fruit and foliage as required at least 3 weeks before picking. Tomatoes for processing – DO NOT USE as a post-harvest or post-harvest quarantine treatment. Missing Machines: Apply 850mL in the required water to cover 1ha. At least 70L/ha should be applied.
	Mediterranean Fruit Fly	WA, NSW & Vic only			
Tomatoes for processing	Aphids, Green Vegetable Bug, Jassids, Thrips	All States	75mL/100L* water	21 days	Apply when pests appear and repeat as necessary. Tomatoes for processing- DO NOT USE as a post-harvest or post-harvest quarantine treatment.
	Tomato Mite	NSW, SA, Tas, Vic, WA only			
	Bryobia Mite	SA, Vic, WA, Tas only			
Tomatoes, large, field grown for fresh consumption	Aphids, Green Vegetable Bug, Jassids, Thrips	All States	60mL/100L* water	-	Apply when pests appear and repeat as necessary. Tomatoes, large, field grown for fresh consumption DO NOT apply after commencement of flowering. DO NOT USE on tomatoes grown in covered or protected situations such as glasshouses, greenhouses or plastic tunnels. DO NOT USE as a post-harvest treatment for tomatoes. DO NOT USE as a post-harvest quarantine treatment for tomatoes. DO NOT USE on cherry, grape or mini tomatoes.
	Tomato Mite	NSW, SA, Tas, Vic, WA only			
	Bryobia Mite	SA, Vic, WA, Tas only			

3. FIELD AND PASTURE CROPS

CROP	PEST CONTROLLED	STATE	RATE	WHP Days	CRITICAL COMMENTS
Adzuki Bean, Cowpea, Mung Bean, Navy Bean, Pigeon Pea	Thrips	NSW, WA only	75mL/100L* water or 800mL/ha	14 Harvest 14 Grazing	Two treatments between pre-bloom (just before flower bud formation) and pod initiation may be necessary. If infestation is severe or prolonged apply the first spray at the pre-bloom stage and the second spray at full-flowering. Use sufficient water to give good coverage. Toxic to bees. DO NOT spray plants in flower while bees are foraging. *(refer to mixing/application section)
Adzuki Bean	Leafhoppers, Bean Fly, Bean Blossom, Thrips	Qld, WA only	800mL/ha or 75mL/100L* water		Apply when pests appear and repeat as necessary. Do not spray when bees are foraging. *(refer to mixing/application section)
Cereals	Lucerne Flea	WA, Vic, Tas, SA, NSW only	55-85mL/ha	28 Harvest 14 Grazing	Apply 3-5 weeks after the commencement of autumn rains or when outbreak occurs. Use the higher rate in cold weather. Do not spray on bare ground. Allow the crop to emerge before application. Boom spray apply in 50-100 litres/ha of water. Aircraft and misting machines 20-40 litres/ha.
	Redlegged Earth Mite	WA, Vic, Tas, SA only NSW only	85mL/ha		Apply when grasshoppers appear and reapply as required. In addition to the infested area spray a band of about 20 metres around areas to be protected. *(refer to mixing/application section)
	Wingless Grasshopper	All States	75mL/100L* water or 750mL/ha		Apply when mites appear and repeat as necessary.
	Brown Wheat Mite	Qld, WA only	90mL/ha		
	Blue Oat Mite	Qld, NSW, WA only			
	Leafhoppers, Cereal Aphids	Qld, WA only	500mL/ha		Apply when pests threaten damage to crop and repeat as necessary.
Cowpeas	Aphids, Mirid Bugs	Qld, WA only		14 Harvest 14 Grazing	Apply when pests appear and repeat as necessary.
	Bean Fly, Leafhoppers		800mL/ha		
	Thrips		500mL/ha		
Cotton	Aphids	Qld, WA, NSW only	500mL/ha	14 Harvest	Apply when pests appear and repeat as necessary. Use the higher rate for heavy infestations. This product will not control OP resistant pests. DO NOT FEED COTTON FODDER, STUBBLE OR TRASH TO LIVESTOCK. *(refer to mixing/application section)

CROP	PEST CONTROLLED	STATE	RATE	WHP Days	CRITICAL COMMENTS
Cotton	Green Vegetable Bug, Green Mirids, Apple Dimpling Bug, Brown Smudge Bug, Broken-backed Bug, Rutherglen Bug	NSW, WA only	340-500mL/ha	14 Harvest	As above
	Leafhoppers (Jassids)	Qld only	350-375mL/ha		
		NSW only	350mL/ha		
	Red Spider Mite, Two Spotted Mite	Qld, NSW, WA only	500mL/ha		
	Thrips	NSW, Qld, WA only	350-375mL/ha		
	Wingless Grasshopper	Qld, NSW, WA only	75mL/100L* water or 750mL/ha		
Grain Legumes	Redlegged Earth Mite	Vic, SA, Tas,	75mL/100L*	14 Harvest 14 Grazing	Apply at crop emergence. Dimethoate will not control OP resistant pests. *(refer to mixing/application section)
Grain Legumes	Spider Mites, Thrips, Jassids, Green Vegetable Bug, Aphids, Bean Fly	Qld, Vic, SA, WA, Tas only	75mL/100L* or 800mL/ha		Apply when insects appear and repeat as necessary. Spray when flowering spikes carrying 20-50 Aphids are easy to find and when there is evidence of virus disease. Dimethoate will not control OP resistant pests. *(refer to mixing/application section)
Lentils	Lucerne Flea	WA only	85mL/100L*		Apply at emergence. *(refer to mixing/application section)
	Redlegged Earth Mite	NSW, WA only	90mL/ha		Apply when pests appear and repeat as necessary.
Lucerne	Redlegged Earth Mite	WA, Vic, Tas, SA only	55-85mL/ha	14 Grazing	Apply at crop emergence. Use the higher rate in cold weather or on mature pasture. Do not spray on bare ground. Allow the lucerne to emerge before application. Boom spray - apply in 50-100 litres/ha water. Aircraft and misting machines - apply in 20-40 litres/ha. Apply when aphids begin to build up on the stem or apply at the same rate as soon as possible after cutting the lucerne stand if and when the infestation occurs. Repeat if necessary. Vic: Apply when 20-40 aphids/stem on mature plants and 1-2 aphids/plant in seedlings are present. Spotted Alfalfa Aphids are resistant to some organophosphates in some areas. Consult your district agronomist before spraying. Apply when aphids begin to build up on the leaves and stems. Spray when bees are not actively foraging. Use the higher rate in dense irrigated stands. Apply when pests appear and repeat as necessary.
		NSW only	85mL/ha		
	Spotted Alfalfa Aphid, Blue Green Aphid	WA only	150-225mL/ha		
		Qld, NSW, Vic only	150mL/ha		
	Blue Green Aphid	Tas only	375mL/ha		
		SA only	250-375mL/ha		
	Leaf Hoppers (Jassids)	Vic, Qld, SA, Tas, WA only	350mL/ha		
	Lucerne Flea	WA, Vic, Tas, NSW, SA only	55-85mL/ha		
	Wingless Grasshopper	All States	75mL/100L* water or 750mL/ha		
	Blue Oat Mite	NSW, WA only	90mL/ha		
	Bean Fly	Vic, SA, Tas, WA only	340mL/ha		
	Pea Aphid	Vic, NSW, WA only	150mL/ha		
					Apply when aphids begin building up on stems. Vic only: Spray when 20-40 aphids per stem or 1-2 per seedling.
Leucaena	Leucaena psyllid	Qld, WA only	340mL/ha		Apply when pest population builds up.

CROP	PEST CONTROLLED	STATE	RATE	WHP Days	CRITICAL COMMENTS
Maize	Maize Leafhopper, Thrips	Qld, WA only	500mL/ha	28 Harvest 14 Grazing	Apply 2 sprays 5-7 days apart.
Mung Beans	Aphids, Mirid Bugs	Qld, WA only	500mL/ha	14 Harvest 14 Grazing	Apply when pests appear and repeat as necessary.
	Bean Fly, Leafhoppers		800mL/ha		
Navy Bean	Aphids, Mirid Bugs	Qld, NSW, WA only	500mL/ha		
Oil Seeds	Redlegged Earth Mite	Vic, Tas, SA only	55-85mL/ha	14 Harvest 14 Grazing	Use the higher rate in cold weather. Do not spray on bare ground. Allow the crop to emerge before application. Boom spray - apply in 50-100L/ha of water. Aircraft and misting machines - apply in 20-40 litres/ha.
		NSW only	85mL/ha		
		WA only	40-55mL/ha		
	Lucerne Flea	WA, NSW SA, Vic, Tas only	55-85mL/ha	14 Harvest 14 Grazing	Apply 3-4 weeks after the commencement of autumn rains or when outbreak occurs. Use the higher rate in cold weather. Do not spray on bare ground. Allow the crop to emerge before application. Boom spray - apply in 50-100L/ha of water. Aircraft and misting machines - apply in 20-40 litres/ha.
		WA only	40-55mL/ha		
	Green Vegetable Bugs, Jassids	All States	350mL/ha		
	Wingless Grasshoppers	All States	75mL/100L* water or 750mL/ha		Apply when grasshoppers appear and re-apply as required. In addition to the infested area spray a band of about 20 metres around areas to be protected. *(refer to mixing/application section)
Pastures, Pasture Seed & Forage Crops (inc. Clover, Medics, Cereals, Lucerne,	Redlegged Earth Mite	NSW, Vic, Tas, SA, WA only	55-85mL/ha	14 Grazing	Use the higher rate in NSW, and in cold weather and/or heavy infestations in other states. Do not spray on bare ground. Allow the crop to emerge before application. Boom Spray - apply in 50-100 litres of water. Aircraft and misting machines - apply in 20-40 litres/ha.
Pastures, Pasture Seed & Forage Crops (inc. Clover, Medics, Cereals, Lucerne, Legumes for animal feed)	Lucerne Flea	NSW, Vic, Tas, SA, WA only	55-85mL/ha	14 Grazing	Apply 3-5 weeks after the commencement of autumn rains or when outbreak occurs. Use the higher rate in NSW, and in cold weather and/or heavy infestations in other states. Do not spray on bare ground. Allow the crop to emerge before application. Boom Spray - apply in 50-100 litres of water. Aircraft and misting machines - apply in 20-40 litres/ha.
	Blue Oat Mite	NSW only	90mL/ha		Apply when grasshoppers appear and re-apply as required. In addition to the infested area spray a band of about 20 metres around areas to be protected. *(refer to mixing/application section)
	Wingless Grasshoppers	All States	75mL/100L* water or 750mL/ha		Apply when grasshoppers appear and re-apply as required. In addition to the infested area spray a band of about 20 metres around areas to be protected. *(refer to mixing/application section)
	Pangola Aphids	Qld, WA only	190mL/ha		Apply when insects appear. Do not treat when predators are present in significant numbers.
	Spotted Alfalfa Aphid, Blue Green Aphid	WA only	150-225mL/ha		Apply when aphids begin to build up on the stem or apply at the same rate as soon as possible after cutting the lucerne stand if and when the infestation occurs. Repeat if necessary. Victoria: Spray when 20-40 aphids per stem (or 1-2 per seedling). Spotted Alfalfa Aphids are resistant to some organophosphates in some areas. Consult your district agronomist before spraying.
		Qld, NSW, Vic, WA only	150mL/ha		
		Tas only	375mL/ha		
	Blue Green Aphid	NSW only	150mL/ha		
		SA only	375mL/ha		
Peanuts	Aphids, Jassids, Thrips, Green Vegetable Bug, Peanut Mite	Qld, NSW, WA only	350mL/ha	14 Harvest 14 Grazing	Apply when pest appears and repeat as necessary.
Sorghum	Aphids	Qld, WA only	500mL/ha	28 Harvest 14 Grazing	
Soy Bean	Green Vegetable Bug, Jassids	NSW, Qld, Tas, WA, SA only	340mL/ha	14 Harvest 14 Grazing	
Sunflower	Green Vegetable Bug, Jassids	NSW, Tas, WA, SA, Qld only	340mL/ha	14 Harvest 14 Grazing	
	Thrips, Twospotted Mite	Qld, WA only	800mL/ha	14 Harvest 14 Grazing	
Tobacco	Lucerne Flea, Redlegged Earth Mite	NSW, WA only	80mL/100L* water	28	Apply spray to tobacco in seed bed when insects are present. Re-apply after 7 days if necessary. *(refer to mixing/application section)

4. FRUIT DIPS

CROP	PEST CONTROLLED	STATE	RATE	WHP Days	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. *(refer to mixing/application section)	
Bananas	Fruit Fly		75mL/100L* water		Dip fruit for 10-60 seconds. Top-up with concentration of 125-150mL/100L. *(refer to mixing/application section)	
Chinese Gooseberries (Kiwifruit) - inedible peel varieties only. Lychees, Persimmons (American inedible peel varieties) (Dipping)	Queensland Fruit Fly		Charge the dip at the rate of 100mL/100L water		Dip the fruit for 1 minute and allow to drain before packing.	
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. *(refer to mixing/application section)	
Mangoes, Pawpaws, Passionfruit (Dip)	Queensland Fruit Fly	NSW, WA only				

5. POST HARVEST DIPS - NOTE: THIS IS A QUARANTINE TREATMENT ONLY

CROP	PEST CONTROLLED	STATE	RATE	WHP Days	CRITICAL COMMENTS
Avocados, Bananas, Cactus fruit, Custard Apples, Feijoas, Guavas and Kiwifruit – inedible peel varieties only, Mangoes, Papaws, Banana passionfruit, Passionfruit, Pomegranates	Queensland fruit fly (<i>Dacus tryoni</i>)	Qld only	100mL/100L* water	-	DIPPING: Immerse produce in emulsion for 1 minute or according to the requirements of the importing State or Country. *(refer to mixing/application section) 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.
Tamarillos		Qld, NSW, only			
Mangoes	Darwin fruit fly (<i>Batrocera aquilonis</i>)	NT only			

6. MISCELLANEOUS**RESTRAINT: DO NOT apply to any non-food tree crop (except oil tea tree) or plantation (including Eucalyptus spp.) by air.**

RESTRAINT: DO NOT apply to any non-food tree crop (except on tea tree) or plantation (including Eucalyptus spp.) by air.					
CROP	PEST CONTROLLED	STATE	RATE	WHP	CRITICAL COMMENTS
Ornamentals (Not Chrysanthemums, Begonias, Liquid amber or Gloxinias)	Aphids, Thrips, Jassids, Spider Mites, Leaf Hoppers, Azalea Lace Bug, Green Vegetable Bug, Rutherglen Bug, Leaf Miners, Green House White Fly, Mealybugs, Scarab, Leaf Beetles, Beetle larvae, Moth caterpillars, Lace bugs, Gall Insects	All States	75mL/100L* water	-	Apply when pests appear and repeat as necessary. Dimethoate will not control OP resistant pests. *(refer to mixing/application section)
	Bronze Orange Bug	NSW, Qld, SA, Vic, WA only			
	Wingless Grasshoppers	All States	75mL/100L* water		Apply when grasshoppers appear and re-apply as required. In addition to the infested area, spray a band of about 20 metres around area to be protected. *(refer to mixing/application section)
	Woolly aphid	Vic, SA, Tas, WA, NT only			Apply when pest first appears and repeat as necessary.

CROP	PEST CONTROLLED	STATE	RATE	WHP	CRITICAL COMMENTS
Trees: Eucalyptus, Kurrajongs, Flame Trees, Umbrella Trees	Jarrah Leaf Miner, Psyllids, Kurrajongs Leaf Miner, Leaf Blister, Sawfly, Lerp Insects, Scale Insects, Spittle Bugs, Mites	WA only	25mL/8L water	-	Apply in early June for control of Jarrah Leaf Miner and in early Spring for Psyllids. Trunk injection method may be used on large trees. Bore holes in tree trunk and fill with 1:1 mixture of Dimethoate and water. Apply in late January as above for Kurrajongs Leaf Miner.
Wild Flowers, Protea	Aphids, Thrip, Leaf Hoppers, Rutherglen Bug		75mL/100L* water		Apply when pests appear. Dimethoate will not control OP resistant pests. *(refer to mixing/application section)
Duboisia	Thrips	Qld, WA only	75mL/100L* water or 750mL/ha	5 months	Apply every 7-10 days or as pest population indicates. Can be applied aerially. *(refer to mixing/application section)
Oil Tea Tree (<i>Melaleuca alternifolia</i>)	Tip-Gall Midge (<i>Dasineura</i> spp.), Psyllids, Pyrgo Beetle	Qld, NSW only	340mL/ha		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 PERIOD: (H) HARVEST; (G) GRAZING.

Cereals (including maize, sorghum):	DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION. DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 14 DAYS AFTER APPLICATION
Oilseeds, Pulses (grain legumes):	DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 14 DAYS AFTER APPLICATION
Citrus:	DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION
Asparagus, Onions, Rhubarb:	DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION
Pastures forage crops and Leucaena:	DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 14 DAYS AFTER APPLICATION
Blueberries (and other vaccinium berries including bilberries):	DO NOT HARVEST FOR 1 DAY AFTER APPLICATION
Blackberries, Raspberries:	DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION
Mango:	DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION
Capsicums, Chilli peppers:	DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION
Melons (including watermelons), Zucchini:	DO NOT HARVEST FOR 1 DAY AFTER APPLICATION
Cotton:	DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION DO NOT FEED COTTON FODDER, STUBBLE OR TRASH TO LIVESTOCK
Oil tea tree:	DO NOT HARVEST FOR 5 MONTHS AFTER APPLICATION
Banana plant destruction and control of banana aphid:	DO NOT ALLOW CATTLE TO GRAZE DESTROYED CROP AREA WHILE PLANT RESIDUE REMAINS PRODUCE FROM TREATED PLANTS MUST NOT BE SUPPLIED TO OR OTHERWISE BE MADE AVAILABLE FOR HUMAN OR ANIMAL CONSUMPTION
Grapes:	HARVEST WITHHOLDING PERIOD: NOT REQUIRED WHEN USED AS DIRECTED (DO NOT USE AFTER FLOWERING COMMENCES)
Stone fruit:	HARVEST WITHHOLDING PERIOD: NOT REQUIRED WHEN USED AS DIRECTED (DO NOT USE AFTER PETAL FALL)
Assorted Sub-Tropical and Tropical fruit – Inedible Peel (other than Mango and Pineapple), including Abui, Avocado, Banana, Banana Passionfruit, Casimiroas (White Sapote), Cherimoya, Custard Apple, Granadillas, Litchi/Lychee, Passionfruit, Paw Paw, Santols, Sapodillas (Chikus), Wax Jambus:	DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION
Strawberries:	HARVEST WITHHOLDING PERIOD: NOT REQUIRED WHEN USED AS DIRECTED (runner production - vegetative material only) (DO NOT USE ON FRUITING STRAWBERRIES)
Lychees (pre-planting dip):	HARVEST WITHHOLDING PERIOD: NOT REQUIRED WHEN USED AS DIRECTED
Beans, Peas (green vegetables), Sweetcorn:	DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 14 DAYS AFTER APPLICATION

Beetroot, Carrot, Globe artichoke, Parsnips, Potatoes, Radish, Sweet Potatoes, Turnip:

DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION

Broccoli, Cauliflower, Celery:

DO NOT HARVEST FOR 21 DAYS AFTER APPLICATION

Tomatoes: (For processing)

DO NOT HARVEST FOR 21 DAYS AFTER APPLICATION

Tomatoes, large, field grown for fresh consumption: **HARVEST WITHOLDING PERIOD: NOT REQUIRED WHEN USED AS DIRECTED**
(i.e **DO NOT** apply after commencement of flowering)

Drumhead cabbage (Specified varieties only): **DO NOT HARVEST FOR 21 DAYS AFTER APPLICATION**

Seed dressings (Vetches, Lupins, Peas, Lucerne, Clover, Linseed, Canola): **NOT REQUIRED WHEN USED AS DIRECTED**

Post Harvest Dipping (Avocados, Bananas, Cactus Fruit, Chilli, Custard Apples, Feijoas, Guavas, Kiwifruit (Chinese Gooseberries, inedible peel varieties), Lychees, Mangoes, Melons, Passionfruit, Banana Passionfruit, Paw Paws, Persimmons (inedible peel varieties), Pomegranates, Tamarillos, Watermelons) : **NOT REQUIRED WHEN USED AS DIRECTED** (dip uses only)

GENERAL INSTRUCTIONS

Before opening, carefully read Directions For Use, Precautionary Statements, Safety Directions and First Aid Instructions.

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

Where a rate per hectare is shown, this takes priority over the rate per 100L instruction.

MIXING/APPLICATION

*Spray Volume

Rates per 100L are intended for higher volume applications i.e. up to a point of run-off using medium to coarse droplets and these need to be adjusted if low volume application is used. The rate shown per hectare provides a guide to the dose of product required for a fully developed crop canopy.

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.

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 (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 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: $3 \times$ (ie. $1500L \div 500L=3$)
4. If the dilute label rate is 10mL/100L, then the concentrate rate becomes 3×10 , 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. For concentrate application - do not use a concentrate spray rate greater than 5 times the dilute spraying rate.

INSECTICIDE RESISTANCE WARNING

GROUP 1B INSECTICIDE

For insecticide resistance management Nufarm Dimethoate is a Group 1B insecticide. Some naturally occurring insect biotypes resistant to Nufarm Dimethoate 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 Nufarm Dimethoate or other Group 1B insecticides are used repeatedly. The effectiveness of Nufarm Dimethoate on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Nufarm accepts no liability for any losses that may result from the failure of Nufarm Dimethoate to control resistant insects. Nufarm Dimethoate may be subject to specific resistance management strategies. For further information contact your local supplier, Nufarm representative or local agricultural department agronomist.

COMPATIBILITY

This product is compatible with the following: Chlorpyrifos 500 EC, Astound® Duo, Fastac® Duo, Bumper®, Aramo®, LI 700® and Activator®.

PROTECTION OF LIVESTOCK

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

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 in a dry, cool, well ventilated area out of direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilisers. Protect from direct sunlight and temperatures above 40°C. If storing for more than 2-3 months, avoid temperatures above 30°C. Triple rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging

below 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.

SAFETY DIRECTIONS

Product is 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 container 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 and washable hat, elbow-length PVC gloves, impervious footwear and half-face respirator with combined dust and gas cartridge (canister). If product 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 gloves, face shield, respirator, and if rubber wash with detergent and warm water and contaminated clothing.

FIRST AID

If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre. Phone Australia 13 11 26, 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

For further information, refer to the Material Safety Data Sheet (MSDS), which may be obtained from the supplier or the Nufarm website – www.nufarm.com.au

In case of emergency: Phone 1800 033 498 Ask for shift supervisor. Toll free 24 hours.

CONDITIONS OF SALE

"Any provisions or rights under the Competition and Consumer Act 2010 or relevant state legislation which cannot be excluded by those statutes or by law are not intended to be excluded by these conditions of sale. Subject to the foregoing, all warranties, conditions, rights and remedies, expressed or implied under common law, statute or otherwise, in relation to the sale, supply, use or application of this product, are excluded.



Nufarm Australia Limited and/or its affiliates ("Nufarm") shall not accept any liability whatsoever (including consequential loss), or howsoever arising (including negligence) for any damage, injury or death connected with the sale, supply, use or application of this product except for liability which cannot be excluded by statute."

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® Astound is a registered trademark of Nufarm Australia Limited.

* Other registered trade marks.

® LI 700 and Activator are registered trade marks of Loveland Products Inc.

ORGANOPHOSPHOROUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE flash point not less than 23°C (Contains Dimethoate and Hydrocarbon Solvent)	 
UN No. 3017	
PACKING GROUP: III	
HAZCHEM: 2W	SPECIALIST ADVICE IN EMERGENCY ONLY 1800 033 498 ALL HOURS - AUSTRALIA WIDE
IN AN EMERGENCY DIAL: 000 POLICE OR FIRE BRIGADE	