



BARMAC INDUSTRIES PTY LTD
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POISON
 KEEP OUT OF REACH OF CHILDREN
 READ SAFETY DIRECTIONS BEFORE OPENING OR USING

BARMAC

Diazinon

INSECTICIDE

ACTIVE CONSTITUENT: 800 g/L DIAZINON
 (An Anticholinesterase compound)

**FOR THE CONTROL OF A WIDE VARIETY OF INSECT PESTS
 IN FRUIT AND VEGETABLE CROPS, FIELD CROPS AND VARIOUS DOMESTIC,
 COMMERCIAL AND INDUSTRIAL AREAS AS PER THE DIRECTIONS FOR USE.**



Barmac Industries Pty Ltd. Box Flat Estate, Swanbank Road, SWANBANK, QLD 4306

NRA APPROVAL NUMBER 50007/0598



BARMAC DIAZINON INSECTICIDE

DIRECTIONS FOR USE

VEGETABLES							
CROP	PEST	STATE	RATE			WITH HOLDING PERIOD	CRITICAL COMMENTS
			Vol/Ha	Vol/100 L Water	Per 15 L Knapsack		
Beans	Bean Fly	NSW, Vic, Qld, WA	150 mL	30 mL		14 days (H)	Spray thoroughly 3, 7 and 14 days after first plants emerge. Further weekly sprays may be necessary in heavy attacks.
	Bean Caterpillar		700 mL	-	-		Spray when necessary. Some control of aphids will be achieved.
	Blossom Thrips	NSW, Vic, SA, WA & Qld	350 mL	30 mL	5 mL		Spray when crops are flowering and thrips are in damaging numbers. Repeat as necessary.

set up for the purpose clear of waterways, desirable vegetation and tree roots. Empty containers should not be burned.

SAFETY DIRECTIONS: Product is poisonous if absorbed by skin contact or swallowed. Repeated minor exposure may have a cumulative poisoning effect. Avoid contact with eyes and skin. DO NOT inhale spray mist. Obtain an emergency supply of atropine tablets 0.6 mg. When preparing the spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist and washable hat, elbow length PVC gloves and face shield or goggles. 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 or goggles and contaminated clothing.

FIRST AID: If poisoning occurs, contact a doctor or Poisons Information Centre. If swallowed give one atropine tablet every 5 minutes until dryness of mouth occurs. If poisoned by skin absorption or through lungs, remove any contaminated clothing, wash skin thoroughly and give atropine tablets as above. Get to a doctor or hospital quickly.

MATERIAL SAFETY DATA SHEET: Additional information is listed on the Material Safety Data Sheet available from Barmac Industries Pty Ltd or from our internet site www.barmac.com.au.

Notice: This product is designed only for the particular purposes indicated on the label. Failure to use the product strictly as directed may be illegal, prove dangerous and render the product ineffective. The buyer or user is responsible for any misuse or negligence in the handling, storage, use of or disposal of this material. Barmac Industries Pty Ltd will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply and use of this product other than those responsibilities mandatorily imposed by Statutes applicable to the sale and supply of these goods.

GENERAL INSTRUCTIONS: Before opening, carefully read Directions for Use, Precautionary Statements, Safety Directions and First Aid Instructions. Thorough coverage is essential.

Mixing: Slowly add the required amount of this product to water in spray tank under agitation.

COMPATIBILITY: This product is compatible with Summer and Winter oils and White Oil.

This product should not be mixed with: Dodine, lime sulphur, oxythioquinox or 2,4 DB.

PRECAUTIONS: DO NOT spray directly onto humans. Avoid contact with food, food utensils and food preparation surfaces.

DO NOT expose wild or domestic birds to the product.

PROTECTION OF LIVESTOCK: Dangerous to bees. **DO NOT** spray any plants in flower while bees are foraging. Before use: Remove animals, remove or cover all feed, feed troughs and water troughs.

PROTECTION OF WILDLIFE, FISH, CRUSTACEA, AND ENVIRONMENT: Dangerous to fish. **DO NOT** contaminate streams, rivers or waterways with the chemical or used containers. Avoid spray drift onto exposed food, food utensils or food processing machinery. Ventilate room before occupying.

STORAGE AND DISPOSAL: Store in the closed, original containers in a well ventilated area away from children, animals, food, feedstuffs, seed and fertilizer. Triple rinse or preferably pressure rinse containers before disposal. Add rinsings to the spray tank. Do not dispose of undiluted chemical on site. If recycling, replace cap and return clean containers to recycler or designated collection point.

If not recycling, break, crush or puncture and bury empty container in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and

CROP	PEST	STATE	RATE			WITH HOLDING PERIOD	CRITICAL COMMENTS
			Vol/Ha	Vol/100 L Water	Per 15 L Knapsack		
Cabbage, Cauliflower, Broccoli, Brussels sprouts, Kale and Kohlrabi	Cabbage White Butterfly, Centre Grub, Cluster Caterpillar, Cabbage Aphid, Green Peach Aphid	Qld	700 mL	140 mL	30 mL	14 days (H)	Spray to run off with a good coverage. Apply at 10 to 14 day intervals.
	Cabbage White Butterfly Cabbage Moth	NSW, SA, WA	700 mL to 1.4 Litres	140 mL	30 mL		Spray to run off with a good coverage. Apply at 10 to 14 day intervals. Vary boom spray rate according to plant size. Some control of aphids will be achieved.
	Cabbage Aphid Cabbage White Butterfly	SA, WA only Vic.					
	Looper	NSW, Vic, SA, WA & Qld	700 mL	65 mL	15 mL		Spray to run off with a good coverage. Apply at 10 to 14 day intervals.
Beetroot,	Webworm	NSW, Vic,	700 mL	-	-	Spray as necessary. Use 1 litre	

CROP	PEST	STATE	RATE			WITH HOLDING PERIOD	CRITICAL COMMENTS
			Vol/Ha	Vol/100 L Water	Per 15 L Knapsack		
Cucurbits	Thrips	NSW, Vic, SA, WA & Qld	350 mL	30mL	5 mL	14 days (H)	Spray when crops are flowering and thrips are in damaging numbers. Repeat as necessary.
Onions, Garlic	Onion Thrips		700 mL	65 mL	-		Spray when thrips are in damaging numbers. Repeat every 10 days as necessary.
Onions	Onion Seedling Maggot	NSW, Vic, SA, WA	700 mL	65 mL	-		Spray foliage when flies appear, usually as plants emerge. Respray every 10 days if necessary.
	Onion Maggot, Wireworm		3 to 5 litres	-	-	Spray soil before sowing and harrow to a depth of 5 to 8 cm or irrigate immediately after application.	
Potatoes	Potato moth	Tas. SA	1 litre	-	-	Spray immediately when	

SITUATION	PEST	STATE	RATE			CRITICAL COMMENTS
			Sprayer	Mister	Swingfog	
Refuse Areas, Garbage Containers	Maggots	All States	60 mL per 100 litres of water	15 mL per litre of water or kerosene	60 mL per litre of fogging oil or distillate	Apply to thoroughly penetrate the refuse.
Ponds, Stagnant Water	Mosquito Larvae		125 mL per 100 litres of water	2 mL in diesel oil or kerosene per 100 square metres	180 mL in fogging oil or distillate per hectare	Apply to breeding areas.
Skins and Hides	Skin and Hide Beetles		6mL per litre of water			Apply 60 mL of mixture per hide individually, and spray area with 5 litres of mixture per 100 square metres.

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WITHHOLDING PERIODS:

EDIBLE CROPS (H): Do not harvest for 14 days after application.

PASTURES & FORAGE CROPS (G): Do not graze pastures or forage crops or cut for stock food

SITUATION	PEST	STATE	RATE			CRITICAL COMMENTS
			Sprayer	Mister	Swingfog	
Homes, Flats, Hotels, Bakeries, Canteens, Commercial and Industrial Buildings, Ships, Farm Buildings including Kennels, Stables and Piggeries, Refuse Areas, Garbage Containers	Cockroaches,	All States	6 mL per litre of water or kerosene	15 mL per litre of water or kerosene		Apply to crevices, cracks and hiding places, eg beneath cupboards, behind sinks and stoves.
	Silverfish, Carpet Beetles,					Apply to floors and under carpets.
	Bed Bugs					Spray should be applied under beds, along skirting boards and
						anywhere bed bugs may be able to shelter, as well as lightly to bedding.
	Fleas					Areas generally infested with fleas should be sprayed as well as sleeping and resting areas of pets. Change infested bedding.
	Flies		6 mL per litre of water			Apply to surfaces on which insects
	Spiders					congregate, eg. ceilings, under eaves, walls Remove existing webbing and

CROP	PEST	STATE	RATE			WITH HOLDING PERIOD	CRITICAL COMMENTS
			Vol/Ha	Vol/100 L Water	Per 15 L Knapsack		
Tomatoes	Thrips	Vic, SA, WA & Qld	350 mL	30 mL	5 mL	14 days (H)	Spray from the seedling stage and repeat application at 7-14 day intervals as long as thrips are present. Effective thrip control is necessary to prevent Spotted Wilt Virus infection.
	Wireworms	NSW	700 mL to 1.4 Litres				Spray soil either before sowing or transplanting and harrow to a depth of 50-80mm or irrigate immediately after application.
	Cutworms	NSW, Vic, SA, WA & Qld		-	-		Spray as necessary. Vary rate according to plant size. Some control of aphids and thrips will be achieved
Capsicum, Eggplant	Cutworms	NSW, Vic, SA, WA & Qld	700 mL to 1.4 Litres				

Sundry Vegetables* Caterpillars, cutworm

PASTURES, CEREALS, SORGHUM, SUNDRY CROPS AND MUSHROOMS

CROP/ PASTURE	PEST	STATE	Rate per hectare diluted in water. Boom spray, Aircraft, Mister.	WITH HOLDING PERIOD	CRITICAL COMMENTS
Lucerne	Lucerne Jassid	Qld	350 mL	2 days (G)	Spray with good coverage when pests are active.
	Spotted Alfalfa Aphid	Vic	700 mL	14 days (H)	Spray when there are 20 to 40 aphids/stem on mature plants or 1 to 2 aphids per stem on seedlings.
		NSW	500 mL		Spray as soon as practical following cutting and repeat as necessary.
Pastures	Pasture Webworm	Qld	700 mL		Spray as soon as damage is noticed - July/Nov. Spray late in the day. Good

WITHHOLDING PERIODS:

EDIBLE CROPS (H): Do not harvest for 14 days after application.

PASTURES & FORAGE CROPS (G): Do not graze pastures or forage crops or cut for stock food

CROP	INSECT PEST	STATE	High Volume per 100 Litres of Water	WITH HOLDING PERIOD	CRITICAL COMMENTS
Pineapples	Mealy Bugs		Boom spray 1.5 to 3 litres per Ha	14 days (H)	Spray thoroughly as necessary. Use high rate for heavy infestations.
Stone Fruit (Dormant)	San Jose Scale	SA, NSW, WA, Vic	65 mL		Add 3 litres of Winter Oil per 100 litres. Spray thoroughly during dormant period up to budswell.
Stone Fruit	San Jose Scale		65 mL		Apply with thorough coverage at budswell. Respray if aphid or scale numbers build up.

Green Peach Aphid, NSW, WA,

SITUATION	PEST	STATE	WITH HOLDING PERIOD			CRITICAL COMMENTS
			Sprayer	RATE Mister	Swingfog	
Commercial & Industrial Buildings, Ships, Farm Buildings including Kennels,	Cockroaches, Silverfish, Carpet Beetles Fleas, Flies, Spiders	All States			60 mL per litre of fogging oil or distillate	<ul style="list-style-type: none"> Do Not use where there is exposed food, food utensils or food processing machinery. Do Not use in food preparation areas, eg kitchens, tea rooms.

CROP	INSECT PEST	STATE	High Volume per 100 Litres of Water	WITH HOLDING PERIOD	CRITICAL COMMENTS
Kiwifruit	Leatania Scale, Greedy Scale	NSW	70 mL	14 days (H)	Apply when the crawlers are leaving the parent scale. A follow up application may be necessary.
	Leafroller Caterpillar Cluster Caterpillar				Apply at 10 to 14 day intervals when caterpillars are active.
Macadamia Nuts	Macadamia Felted Coccid	Qld, NSW	125 mL		Spray thoroughly when pests are noticed. Repeat applications monthly where necessary.
	Macadamia Leaf Miner	NSW	65 mL	Spray in the spring and autumn when new flush growth is attacked or as required. Thorough coverage of the outside canopy is necessary.	
Pineapples	Pineapple Scale	Qld, NSW	65 mL		required. Thorough coverage of the outside canopy is necessary.
					Add a non ionic surfactant. Spray plants thoroughly when scale or eggs are evident apply 2000 to 3000 litres of mixture per hectare. Repeat applications at 2 to 3 week intervals as necessary.

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CROP/ PASTURE	PEST	STATE	Rate per hectare diluted in water. Boom spray, Aircraft, Mister.	WITH HOLDING PERIOD	CRITICAL COMMENTS
Pastures, Cereals (inc Maize, sorghum), Oil Seed Crops (inc Cotton), Soybeans, Sugar Cane	Australian Plague Locusts	NSW, Vic, SA, WA & Qld	700 mL	2 days (G) 14 days (H)	Spray directly onto hopper bands and flying swarms.
	Spur-throated Locust, Migratory Locusts	Qld, NSW	700 to 850 mL		Spray swarms in early morning or late evening when pests are roosting. Use higher rates in dense crops or if locusts are adults.
Cereal Crops, Pastures	Armyworm, Cutworm	All States	1 Litre		Spray when pests are first noticed and repeat in 10 days if necessary. Minimum application volumes per hectare:- by boom spray 110 litres, by air or mister spray 22 litres.
Sorghum, Pastures	Grasshoppers	Vic, Tas, WA	1 to 1.4 litres		Spray swarms in early morning or late evening when pests are roosting.

CROP/ PASTURE	PEST	STATE	Rate per hectare diluted in water. Boom spray, Aircraft, Mister.	WITH HOLDING PERIOD	CRITICAL COMMENTS
Sorghum	Sorghum Midge	Qld	350 mL	2 days (G) 14 days (H)	Spray from 90% sorghum head emergence to advanced flowering stage at 4 day intervals or as necessary, depending on pest numbers and crop potential. In NSW use the lower rate for light infestations. Use the higher rate if infestations are heavy or where reinfestation is likely to occur quickly.
		NSW	350 to 700 mL		
Cotton	Cotton Flea Beetle, Red	NSW	350 to 500 mL		Spray when insects are present.
Chou Moellier, Carnola, Turnips	Shouldered Beetle	SA, Vic	700 mL	14 days (H)	Spray as necessary. DO NOT spray when bees are foraging.
	Cabbage Moth, Cabbage White Butterfly				
Rice	Brown Plant Hopper	Qld	350 mL		Spray when pests are active. For aerial applications use at least 50 litres of

CROP	INSECT PEST	STATE	High Volume per 100 Litres of Water	WITH HOLDING PERIOD	CRITICAL COMMENTS
Citrus	Citrus Leaf Miner	Qld, NSW	65 mL	14 days (H)	Spray young growth every 10 days when pests are active.
	Grasshoppers	Qld			Spray when necessary.
Cumquats Trifoliolate Orange	Citrus Leafminer	NSW			Check susceptible growth flushes mainly in late summer-autumn period. Apply thoroughly to the underside of infested leaves. Two sprays are normally required at 10 to 14 day intervals or a higher number of applications may be required in nursery situations.
Grape Vines	Mealy Bug	Vic, SA, WA	30 mL		Spray during late Nov. to early Dec. For late table grapes, spray early Nov., again late Dec. and follow up if necessary. Thorough coverage is essential.
	Australian Plague Locusts	WA	65 mL		Spray thoroughly as necessary.

CROP	INSECT PEST	STATE	High Volume per 100 Litres of Water	WITH HOLDING PERIOD	CRITICAL COMMENTS
Apples	Greedy Scale	WA	65 mL	14 Days (H)	Add 3 litres of oil per 100 litres of spray. Spray when buds are swelling
			65 mL		Spray as required November to March
Bananas	Banana Beetle Borer	NSW	125 mL		Spray in spring and again in late summer when adult beetles are present. Spray 600 mL to the base of each plant.
	Banana Rust Thrip	Qld	50 mL		Ensure good coverage of fingers and penetration inside bunch. Apply as required when the bunch is fully emerged until bracts have fallen. Apply every 14 days between Nov. and March in North Queensland when thrips are most active.
Blueberries	Scale Insects	NSW	70 mL		Spray in late afternoon after bees have finished foraging.

CROP/PASTURE	PEST	STATE	Rate per hectare diluted in water. Boom spray, Aircraft, Mister.	WITH HOLDING PERIOD	CRITICAL COMMENTS
Rice	Bloodworm	NSW	75 to 150 mL	14 days (H)	Spray first at or within 24 hours of sowing by aircraft or ground application equipment to flooded bays. When the water depth is 150 mm or less use the 75mL per hectare rate. When water depth is between 150 mL and 300 mL or when high levels of recently incorporated organic matter are present, use 150 mL per hectare rate. Apply further treatments as required until plants are established with satisfactory secondary root development.
Pastures, Lawns, around trees	Argentine Ants	WA	High Volume: 600 mL/100 litres of water. Use at least 1 litre of spray per 10 square metres. Spray lawns on a grid pattern of 1 metre squares	2 Days (G)	Thoroughly spray ants nests and infested areas. Apply coarse spray to pests and all trees alongside foundation walls, fences, paths and garden beds.

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CROP/ PASTURE	PEST	STATE	Rate per hectare diluted in water. Boom spray, Aircraft, Mister.	WITH HOLDING PERIOD	CRITICAL COMMENTS
Mush- rooms	Mushroom Pests (various)	All States	At spawning: 140mL in 10 litres of water per tonne of moist compost.	14 days (H)	Mix thoroughly with compost at spawning.
			After casing: 30 mL in 10 litres of water per tonne of moist compost		Spray over top of casing soil immediately after casing.
Nursery Plants	Aphids, Thrips, Mealy Bugs, Scale Insects, Plant Bugs, Beetles	NSW, Vic	Dipping mixture: 60mL per 100 litres		Thoroughly drench plant material with the dipping mixture. Treatment can be used for plants being transported from NSW into Victoria.
Orna- mentals, Potted Plants	Fungus Gnats	Qld only	2 mL per 10 litres of water		Apply as a drench. If problem persists, reduce watering or replot plants using less organic matter. Treat a few plants first to test for phytotoxicity.

PLANTATION AND ORCHARD CROPS

CROP	INSECT PEST	STATE	High Volume per 100 Litres of Water	WITH HOLDING PERIOD	CRITICAL COMMENTS
Apple, Pears (Dormant)	San Jose Scale	NSW, Vic, SA, WA	65 mL	14 Days (H)	Add 3 litres of winter oil per 100 litres of spray. Spray thoroughly 2 weeks before green tip.
Apples, Pears		Vic, WA	65 mL		Add 1.2 litres of summer oil per 100 litres of spray. Spray at petal fall, in early Dec. and again in mid Jan. if scale is serious. Also apply in autumn if scale is evident in the harvested crop.
Apples	San Jose Scale, Woolly Aphid	SA, NSW	65 mL		Spray at petal fall, in early Dec. and again in mid Jan. if scale is serious. These applications will keep woolly aphids in check during the period they are applied. This product will not adversely affect populations of predatory <i>Typhlodius occidentalis</i> and <i>Typhlodromus pyri</i> .
			65 mL		Add 1.2 litres of summer oil per 100