

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
14 ANNIE STREET, ROCKLEA. 4106

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.
	Seed Maggot	NSW, Vic, SA, WA	3 to 5 litres	-	-		Spray soil before sowing and work into a depth of 5 to 8 cm.
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		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	SA, WA only					
	Cabbage White Butterfly	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, Silverbeet, Globe Artichoke	Webworm	NSW, Vic, SA, WA & Qld	700 mL	-	-	Spray as necessary. Use 1 litre per hectare for advanced crops. Some control of aphids will be achieved.	
Cucurbits	Thrips	NSW, Vic, SA, WA & Qld	350 mL	30mL	5 mL	Spray when crops are flowering and thrips are in damaging numbers. Repeat as necessary.	
Onions, Garlic	Onion Trips		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 "blister" stage is noticed. In SA follow up every 14 days as required. Apply at least 170 litres of water/Ha	
Tomatoes	Thrips	Vic, SA, WA & Qld	350 mL	30 mL	5 mL	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			14 days	
Sundry Vegetables*	Caterpillars, cutworm						

* Including Cantaloupes, Carrots, Celery, Chokos, Cucumbers, Gherkins, Lettuce, Marrows, Pumpkin, Parsnips, Peas, Squash, Watermelons, Rhubarb, Sweet Corn.

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 coverage at ground level is important. Grazing or mowing assists.

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
For 2 days after application.

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

CROP/ PASTURE	PEST	STATE	Rate per hectare diluted in water. Boom spray, Aircraft, Mister	With Holding Period	CRITICAL COMMENTS
Pastures, Cereals (inc Maize, sorghum),	Australian Plague Locusts	NSW, Vic, SA, WA & Qld	700 mL	2 days (G) 14 days (H)	Spray directly onto hopper bands and flying swarms.
Oil Seed Crops (inc Cotton), Soybeans, Sugar Cane	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.
Sorghum	Sorghum Midge	Qld	350 mL		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 Shouldered Beetle	NSW	350 to 500 mL		Spray when insects are present.
Chou Moellier, Carnola, Turnips	Cabbage Moth, Cabbage White Butterfly	SA, Vic	700 mL	14 days (H)	Spray as necessary. DO NOT spray when bees are foraging.
Rice	Brown Plant Hopper	Qld	350 mL		Spray when pests are active. For aerial applications use at least 50 litres of spray per hectare.
	Bloodworm	NSW	75 to 150 mL	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.	

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CROP/ PASTURE	PEST	STATE	Rate per hectare diluted in water. Boom spray, Aircraft, Mister	With Holding period	CRITICAL COMMENTS
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 infected areas. Apply coarse spray to pests and all trees alongside foundation walls, fences, paths and garden beds.
Mushrooms	Mushroom Pests (various)	All States	At spawning: 140 mL in 10 litres of water per tonne of moist compost. After casing: 30 mL in 10 litres of water per tonne of moist compost	14 days (H)	Mix thoroughly with compost at spawning. Spray over top of casing soil immediately after casing.
Nursery Plants	Aphids, Thrips, Mealy Bugs, Scale Insects, Plant Bugs, Beetles	NSW, Vic	Dipping mixture: 60 mL per 100 litres		Thoroughly drench plant material with the dipping mixture. Treatment can be used for plants being transported from NSW into Victoria.
Ornamentals, Potted Plants	Fungus Gnats	Qld only	2 mL per 10 litres of water		Apply as a drench. If problem persists, reduce watering or repot 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 Typhlodolus occidentalis and Typhlodromus pyri.
			65 mL		Add 1.2 litres of summer oil per 100 litres of spray. Apply in autumn if scale or aphids are evident in harvested crop.
	Greedy Scale	WA	65 mL		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.
Citrus	Spined Citrus Bug	NSW	65 mL		Add 1 litre of Winter Oil/100 litres of spray. Thoroughly wet bugs. Do not spray when fruit is less than 2.5 cm diameter to avoid blemish.
	Citrus Leaf Miner	Qld, NSW			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.

Crop	Insect Pest	State	High Volume per 100 Litres of Water	With holding Period	Critical Comments
Grape Vines	Mealy Bug	Vic, SA, WA	30 mL	14 days (H)	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.
Hops	Common and Southern Army Worms	Vic	65 mL		Spray when pests are first noticed. Repeat in 10 days if necessary.
Kiwifruit	Leatania Scale, Greedy Scale	NSW	70 mL		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		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.
			65 mL		Add 1 litre of white oil per 100 L and dip suspect planting material.
	Mealy Bugs		Boom spray 1.5 to 3 litres per Ha		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	NSW, WA, SA	65 mL	Apply with thorough coverage at budswell. Respray if aphid or scale numbers build up.	
	Green Peach Aphid, Black Cherry Aphid				

PEST CONTROL

SITUATION	PEST	STATE	RATE			CRITICAL COMMENTS
			SPRAYER	MISTER	SWINGFOG	
Commercial and Industrial Buildings, Ships, Farm Buildings including Kennels, Stables and Piggeries, Refuse Areas, Garbage Containers	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. Avoid fogging drinking water or feedstuffs.
Homes, Flats, Hotels, Bakeries Canteens, Commercial and Industrial Buildings, Ships, Farm Buildings including Kennels, Stables and Piggeries, Refuse Areas, Garbage Containers	Cockroaches, Silverfish, Carpet Beetles, Bed Bugs		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.
	Fleas					Apply to floors and under carpets
	Flies		Spray should be applied under beds, along skirting boards and anywhere bed bugs may be able to shelter, as well as lightly to bedding.			
	Spiders		Areas generally infested with fleas should be sprayed as well as sleeping and resting areas of pets. Change infested bedding.			
	Ants		Apply to surfaces on which insects congregate, eg ceilings, under eaves, walls			
Refuse Areas, Garbage Containers	Maggots		60 mL per 100 litres of water	15 mL per litre of water or kerosene	60 mL per litre of fogging oil or distillate.	Remove existing webbing and saturate area with the mixture.
						Apply to ant trails. Attempt to locate nests and thoroughly saturate surface. Use at least 1 litre of mixture per 10 square metres.
						Apply to thoroughly penetrate the refuse.

SITUATION	PEST	STATE	RATE			CRITICAL COMMENTS
			SPRAYER	MISTER	SWINGFOG	
Ponds, Stagnant Water	Mosquito Larvae	All states	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 of forage crops or cut for stock food For 2 days after application.

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 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 days use, wash gloves, face shield or goggles and contaminated clothing.

FIRST AID: If poisoning occurs, contact a doctor or Poisons information Centre. If swallowed and give 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 information is not intended to replace the product label. Failure to use any product in a manner consistent with the label may be illegal, prove dangerous and render the product ineffective. While every endeavour has been made to ensure that this information is accurate and up to date Barmac Industries Pty Ltd will not accept any responsibility for any use of this product based on the information herewith if this use is inconsistent with the label supplied at the time of purchase.