

# DANGEROUS POISON

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



## *Fenamiphos 400EC*

Nematicide and Insecticide

ACTIVE CONSTITUENT: 400 g/L FENAMIPHOS  
(An Anticholinesterase Compound)

GROUP

**1B**

INSECTICIDE

For control of nematodes and sucking insects in crops and  
turf as specified in the Directions for Use Table.

**IMPORTANT: READ THE ATTACHED BOOKLET BEFORE USING THIS PRODUCT**

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**Contents: 1L, 5L, 10L**

## DIRECTIONS FOR USE

Crop	Pest	State	Rate	WHP	Critical Comments
Aloe vera planting material	Soil borne plant parasitic nematodes	QLD, NSW, WA only	1L/100L water	-	Air dry or cure prepared pups for 48 hours prior to treatment. Immerse unpaired pups in SABAKEM® FENAMIPHOS 400EC NEMATOCIDE AND INSECTICIDE dip solution for 30 minutes. Allow to drain and dry. Wear elbow-length PVC gloves when dipping and when handling dipped material.
Aloe vera			30L/ha		<b>a) Before planting:</b> Apply as an overall treatment pre-planting – see general instructions.
			30L/ha		<b>b) Maintenance:</b> Apply every 4 months. The chemical must be washed off the foliage by overhead sprinkler irrigation within half an hour of treatment.
		60L/ha	<b>c) Infested established crop:</b> Apply as a conventional spray. The chemical must be washed off plant foliage by overhead sprinkler irrigation within half an hour of treatment. Four months later treat as for (b) above.		
Banana planting material			100mL/100L water		Pare the planting material to remove all dead tissue. Immerse planting material in SABAKEM® FENAMIPHOS 400EC NEMATOCIDE AND INSECTICIDE dip solution for 10 minutes. Allow to drain and dry. Wear elbow-length PVC gloves when dipping in and when handling dipped material.
Bananas		QLD (tropical areas) WA (Kimberley areas) ONLY	600mL/100m of row or 6mL/stool or 6mL/m <sup>2</sup> of wetted area or 60L/ha of wetted area metered into the irrigation water		<b>For previously untreated ratoons, or where retreatment is late, or where nematode populations are high:</b> Remove weed and trash from the treatment area prior to application. Preferably apply just prior to, or just after the wet season eg: December or April. Continue with maintenance applications as described below within 4 months. Treat a 0.5 metre band each side of the centre line.  For individual stool treatment apply evenly in an area of 1m <sup>2</sup> around the stool.  For low pressure minisprinkler or microspray irrigation inject 6mL of SABAKEM® FENAMIPHOS 400EC NEMATOCIDE AND INSECTICIDE into the irrigation water for each square metre of wetted area. Assume at least 1 square metre is wetted for each metre of single row planted. For low pressure minisprinkler or microspray irrigation. Meter 60L into the irrigation water for each hectare of wetted area. When calculating area wetted, assume at least 1 square metre is wetted for each metre of single row planted.
Bananas	Soil borne plant parasitic nematodes	QLD (tropical areas) WA (Kimberley areas) ONLY	Maintenance rate 300mL/100m of row or 3mL/stool or 3mL/m <sup>2</sup> of wetted area 30L/ha of wetted area metered into the irrigation water	-	<b>Treatment of plant crops and subsequent ratoons:</b> Remove weed and trash from the treatment area prior to application. Apply 3 treatments per year: 1. Just prior to the wet season, eg December. 2. Just after the wet season, eg April. 3. August. Treat a 0.5 metre band each side of the centre line. For individual stool treatment apply evenly in an area of 1 m <sup>2</sup> around the stool. For low pressure minisprinkler or microspray irrigation inject 3mL of SABAKEM® FENAMIPHOS 400EC NEMATOCIDE AND INSECTICIDE into the irrigation water for each square metre of wetted area. Assume at least 1 square metre is wetted for each metre of single row planted. For low pressure minisprinkler or microspray irrigation meter 30L into the irrigation water for each hectare of wetted area. When calculating area wetted, assume at least 1 square metre is wetted for each metre of single row planted.
		QLD, NSW, Only (Sub-tropical areas)	450mL/100m of row or 4.5mL/m <sup>2</sup>		<b>Treatment of plant crop and subsequent ratoon crops:</b> Apply 2 treatment per year: 1. Just prior to the wet season, eg December. 2. Just after the wet season, eg April. Remove weed and trash from the treatment area. Treat a 0.5 metre band either side of the centre line with a tractor mounted boom. Inject 4.5mL of SABAKEM® FENAMIPHOS 400EC NEMATOCIDE AND INSECTICIDE for each square metre of wetted area using low pressure irrigation eg Drip, mini-sprinkler. For previously untreated ratoon crops, apply 600mL/100m of row or 6mL/m <sup>2</sup> . Continue treatment 6 months later as set out for plant crops and subsequent ratoon crops.
	WA (Camarvon only)	24L/ha metered into the irrigation water	Remove weed and trash from treatment area. Treatment for plant and ratoon crops: Apply 2 treatments per year in September and again in either December or January.		
Citrus	Soil borne plant parasitic nematodes	QLD, NSW only	<b>Initial Rate</b> 75L/ha or Trickle Irrigation 7.5mL/m <sup>2</sup> <b>Maintenance Rate:</b> 37.5L/ha or Trickle irrigation 3.8 mL/m <sup>2</sup>	-	<b>Initial Rate:</b> Apply in spring as an overall treatment at 150 – 200 kPa to the root zone. After treatment irrigate the area with at least 50mm water. Inject in spring, 7.5mL SABAKEM® FENAMIPHOS 400EC NEMATOCIDE AND INSECTICIDE for each square metre of wetted area. <b>Maintenance rate:</b> Apply each spring as an overall treatment at 150 – 200 kPa to the root zone. After treatment irrigate the area with at least 50 mm water. Inject each spring, 3.8mL SABAKEM® FENAMIPHOS 400EC NEMATOCIDE AND INSECTICIDE for each square metre of wetted area. <b>Note:</b> The rootstock Trifoliata is resistant to citrus nematode.

Crop	Pest	State	Rate	WHP	Critical Comments
Crucifers	Soil borne plant parasitic nematodes, Sucking Insects (eg: aphids and thrips)	All States	24L/ha	12 Weeks	Apply as an overall treatment pre-planting – see General Instruction.
Cucurbits			24L/ha or 16mL/10m of row		Apply as an overall treatment pre-planting or pre-transplanting – see General Instructions.
Carrots, Beetroot, Onions, Celery, Sweet Potatoes			Apply on a 60cm band pre-planting or pre-transplanting – see General Instructions.		
Lettuce		QLD Only	8 Weeks		
Endive		Tas Only			
Parsnips					
Grapevines	Soil borne plant parasitic nematodes	All States	30L/ha or Trickle Irrigation 3mL/m <sup>2</sup>		Remove weeds from intervine row. Apply late September to moist soil across the full width of the intervine row using a boom spray at about 200kPa. Incorporate after spraying as soon as possible to a depth of 10 – 15cm and no closer than 45cm to the vine rows. After treatment irrigate the area with approximately 30 – 50mm water. In late September inject 3mL SABAKEM® FENAMIPHOS 400EC NEMATOCIDE AND INSECTICIDE for each square metre of wetted area. See guidelines for trickle irrigation.
Mushrooms	Soil borne plant parasitic nematodes	All States	65mL / 20L water (20L spray mixture per compost) or 55mL / 1 tonne compost or 10mL / bale of peat weighing 50 – 60kg or 55mL / 1 tonne casing.	6 Weeks	Treat compost a) Before peak heating at the last turn Use a Cook free-flow compost turning machine. Inside the top of the machine set a spray boom to deliver 20 L of water per tonne of compost. Apply to compost while it is being turned Or b) After peak heating Dilute SABAKEM® FENAMIPHOS 400EC NEMATOCIDE AND INSECTICIDE in a convenient volume of water and spray compost. Apply to compost while it is being turned Or c) Treat casing Dilute SABAKEM® FENAMIPHOS 400EC NEMATOCIDE AND INSECTICIDE in a volume of water per bale used to prepare. Incorporate thoroughly. DO NOT TREAT BOTH CASING AND COMPOST.
Omamentals (annual)	Soil borne plant parasitic nematodes, Sucking Insects (eg aphids and thrips)		24L/ha or Trickle Irrigation 16mL/10m of row.		Apply as an overall treatment pre-planting – See General Instructions. Inject SABAKEM® FENAMIPHOS 400EC NEMATOCIDE AND INSECTICIDE into the irrigation system any time from 7 days before up to the time of transplanting. See guidelines for trickle irrigation.
Omamentals (perennial), Nursery Root Stock			24 L/ha or Trickle Irrigation 16 or 32mL/10m of row		Apply each spring and early autumn using conventional spraying equipment as an overall treatment at 150 – 200kPa. The chemical must be washed off plant foliage by overhead sprinkler irrigation within half an hour of treatment. Use 48 L/ha in areas of known heavy infestation (not QLD). Trickle irrigation – apply each spring and early autumn. See guidelines for trickle irrigation. Use higher rate in areas of known heavy infestation.
Bulbs	Plant parasitic nematodes	QLD, NSW, WA, Tas only	24L/ha or 16mL/10m of row		Apply as an overall treatment pre-planting – see General Instructions. Apply on a 60cm band pre-planting or pre-transplanting. See General Instructions.
Chrysanthemums	Leaf Nematode		100mL/100L water or 1L/ha		Commence spraying at the first sign of infestation. Apply at 14 day intervals using hollow cone nozzles. Use the per hectare rate unless spraying to run-off.
Pineapples	Soil borne plant parasitic nematodes	QLD only	<b>Preplant bed treatment</b> 250mL/100m of bed for a 1m wide band	-	Apply evenly at the final bed preparation stage to moist soil. Choose a band width to suit the bed size and adjust the rate per 100 metres accordingly. Example: 0.75m bed-width apply 190mL/100mL of bed. Nematode control will only occur in this band width. Incorporate to 10 to 15 cm by using a rotary tillage implement, then apply SABAKEM® FENAMIPHOS 400EC NEMATOCIDE AND INSECTICIDE during the plant crop cycle – see below.
			<b>Plant crop and ratoon crop foliar sprays</b> 6L/ha		During the plant crop cycle, apply 5 sprays over the plants at 2 to 3 month intervals beginning 1 month after planting and ending no later than 6 weeks prior to flower induction. Immediately after plant crop harvest, apply 2 sprays over the plants, 2 to 3 months apart. Ensure the spray runs into the leaf axils without overflowing onto the soil. Only apply under conditions of good soil moisture. Use in conjunction with SABAKEM® FENAMIPHOS 400EC NEMATOCIDE AND INSECTICIDE (see above) applied at the final bed preparation.
			<b>Ratoon crop foliar sprays only</b> 12 L/ha		If nematodes have infested roots during that plant crop cycle, apply 12 L/ha following harvest of plant crop and an additional 12 L/ha 4- 6 weeks later. Ensure the spray runs into the leaf axils without overflowing onto the soil. Avoid over-lapping sprays as some leaf damage may occur. Only apply under conditions of good soil moisture.
Potatoes		All States	13L/ha (rows 80 cm apart) or 110mL/100m of row	12 Weeks	<b>a) Pre-planting:</b> Apply as a spray to a 45cm band over the row. Then mechanically incorporate. <b>b) At emergence (for red volcanic soil types only):</b> As soon as sufficient plants have emerged to indicate row position apply to moist soil and irrigate immediately after application.
Strawberries	Soil borne plant parasitic nematodes, Sucking Insects (eg aphids and thrips)		24 L/ha or 16mL/10m of row <b>Trickle irrigation</b> 16mL/10m of row	6 Weeks	Apply as an overall treatment pre-planting – see General Instructions. Apply on a 60 cm band pre-transplanting – see General Instructions. Inject SABAKEM® FENAMIPHOS 400EC NEMATOCIDE AND INSECTICIDE into the irrigation system any time from 7 days before up to the time of transplanting. See guidelines for trickle irrigation.

Sugar Cane	Soil borne plant parasitic nematodes	QLD only	10L/ha	-	Apply in a 30 – 40 cm band centred on the row. Apply at any time from planting to early tillering. If cane has emerged apply as a directed spray from either side of the row. Avoid spraying directly into the spindle. Lightly incorporate with rakes, discs or tynes. Irrigation or rainfall soon after treatment is necessary to ensure good results. If available, apply 12 to 25 mm of spray irrigation within 24 hours of application.
Tobacco		QLD, Vic only	24 L/ha in 150 – 300L water (band treatment)	-	Apply any time from 7 days before up to the time of transplanting as an overall treatment or on a 60cm band. Apply at 150 – 200kPa by boom spray onto moist soil. Incorporate with rotary hoe or disc to 10cm. Incorporate as close to spraying as possible. As soon as possible after incorporation apply at least 25mm of overhead irrigation.
	Sucking Insects (eg aphids and thrips)	QLD only	16mL/10m of row		
Tomatoes	Soil borne plant parasitic nematodes, Sucking Insects (eg aphids and thrips)	All States	24L/ha or 16mL/10m of row <b>Trickle Irrigation</b> 16mL/10m of row		Apply as an overall treatment pre-planting or pre-transplanting – see General Instructions. Apply on a 60 cm band pre-planting or pre-transplanting – see General Instructions. Inject SABAKEM® FENAMIPHOS 400EC NEMATOCIDE AND INSECTICIDE into the irrigation system any time from 7 days before up to the time of planting. See guidelines for trickle irrigation.
Turf	Soil borne parasitic nematodes		110mL/100m <sup>2</sup> or 1.5L per bowling green		Apply each spring and repeat 5 weeks later as an overall treatment. Apply in a convenient amount of water. Apply ONLY to wet turf and damp soil after irrigation or a period of rain. Avoid application under windy or very hot and drying conditions. Irrigate immediately while leaves are still wet with spray deposit (usually within a few minutes) and apply a minimum of 15mm of water. Regulate the volume of irrigation to avoid the formation of pools and puddles.

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

#### **WITHHOLDING PERIODS:**

**DO NOT APPLY TO SOIL WHERE STRAWBERRIES ARE TO BE HARVESTED WITHIN 6 WEEKS OF TREATMENT**

**DO NOT APPLY TO SOIL WHERE CARROTS, BEETROOT, SWEET POTATOES, POTATOES, ONIONS OR CELERY ARE TO BE HARVESTED WITHIN 12 WEEKS OF TREATMENT**

**DO NOT APPLY TO SOIL WHERE LETTUCE OR ENDIVES ARE TO BE HARVESTED WITHIN 8 WEEKS OF TREATMENT**

**DO NOT APPLY TO COMPOST OR CASING WHERE MUSHROOMS ARE TO BE HARVESTED WITHIN 6 WEEKS OF TREATMENT**

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

**WOOD DUCKS (*Chenonetta jubata*) MAY BE PUT AT RISK IF THIS PRODUCT IS NOT USED CORRECTLY**

#### **GENERAL INSTRUCTIONS**

GROUP	<b>1B</b>	INSECTICIDE
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For insecticide resistance management SABAKEM® FENAMIPHOS 400EC NEMATOCIDE AND INSECTICIDE is a Group 1B Insecticide. Some naturally occurring insect biotypes resistant to SABAKEM® FENAMIPHOS 400EC NEMATOCIDE AND 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 SABAKEM® FENAMIPHOS 400EC NEMATOCIDE AND INSECTICIDE or other Group 1B insecticides are used repeatedly. The effectiveness of SABAKEM® FENAMIPHOS 400EC NEMATOCIDE AND INSECTICIDE on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Sabakem Pty Ltd accepts no liability for any losses that may result from the failure of SABAKEM® FENAMIPHOS 400EC NEMATOCIDE AND INSECTICIDE to control resistant insects. SABAKEM® FENAMIPHOS 400EC NEMATOCIDE AND INSECTICIDE may be subject to specific resistance management strategies. For further information contact your local supplier, Sabakem Pty Ltd representative or local agricultural department agronomist.

#### **MIXING**

Add the required quantity of SABAKEM® FENAMIPHOS 400EC NEMATOCIDE AND INSECTICIDE to the spray vat full of water while stirring or with by-pass in operation. Agitate before spraying if mixture has been left overnight.

#### **APPLICATION**

Use flat fan nozzles when applying SABAKEM® FENAMIPHOS 400EC NEMATOCIDE AND INSECTICIDE to the soil surface by boom spray. Do not exceed 200 kPa or spray drift may occur. Do not apply under windy conditions. SABAKEM® FENAMIPHOS 400EC NEMATOCIDE AND INSECTICIDE requires moisture in the soil. Only apply while the soil is moist at the surface after rain or irrigation unless SABAKEM® FENAMIPHOS 400EC NEMATOCIDE AND INSECTICIDE is to be incorporated.

Avoid application to dry soil or during prolonged dry spells unless irrigation is available. Irrigation or rainfall is generally required within 24 hours after application to a soil surface.

After spraying rinse tank, pump and lines with plenty of water before spraying fungicides or insecticides. Do not allow a mixture to stand overnight if plastic hosing is used.

## PRE-PLANTING

Apply anytime from 7 days before up to the time of planting. Apply at 150 – 200 kPa by boom spray onto moist soil. Incorporate with rotary hoe or discs to 10cm. Incorporate as close to spraying as possible.

## GUIDELINES FOR TRICKLE IRRIGATION

Commence watering to moisten the soil. Then inject SABAKEM® FENAMIPHOS 400EC NEMATICIDE AND INSECTICIDE into the system. Inject SABAKEM® FENAMIPHOS 400EC NEMATICIDE AND INSECTICIDE over as long a period as possible (minimum ½ hour). Flush system with water to ensure no SABAKEM® FENAMIPHOS 400EC NEMATICIDE AND INSECTICIDE remains in the system.

## ACCELERATED BIODEGRADATION

As with other soil insecticides the effectiveness of this product may be reduced as a result of the soil microflora developing the ability to biodegrade it at an accelerated rate, particularly after repeated application.

If unacceptable control occurs, immediately contact your Sabakem® representative for detailed information. This product should not be used where the user suspects the soil microflora have developed the ability to degrade it at an accelerated rate.

Sabakem Pty Ltd accepts no responsibility, and intends by this statement to exclude liability, if the effectiveness of this product is reduced or nullified as a result of accelerated biodegradation, since biodegradation is accelerated by soil characteristics which occur naturally and are beyond Sabakem Pty Ltd's control.

## PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

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

## STORAGE AND DISPOSAL

Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilisers. Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Triple or preferably pressure rinse container 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 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.

## SAFETY DIRECTIONS

Poisonous if swallowed. May irritate the eyes. Repeated minor exposure may have a cumulative poisoning effect. Will damage eyes and skin. Will irritate the nose and throat. Avoid contact with eyes and skin. Do not inhale vapour or spray mist. Obtain an emergency supply of atropine tablets 0.6 mg. If clothing becomes contaminated with product or wet with spray remove clothing immediately. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. After use and before eating, drinking or smoking wash hands, arms and face thoroughly with soap and water.

## FIRST AID


If poisoning occurs, contact a doctor or Poisons Information Centre. Phone 131 126. If swallowed, give one atropine tablet every 5 minutes until dryness of the mouth occurs. If poisoned by skin absorption or through lungs, remove contaminated clothing, wash skin thoroughly and give atropine tablets as above. Get to a doctor or hospital quickly.

## MATERIAL SAFETY DATA SHEET

If additional hazard information is required refer to the Material Safety Data Sheet.

## CONDITIONS OF SALE

The use of this product is beyond the control of Sabakem Pty Ltd. No warranty is expressed or implied regarding the suitability or efficiency for any purpose for which it is used by the buyer. Sabakem Pty Ltd accepts no responsibility for any consequences resulting from the use of this product. Sabakem Pty Ltd will not be held liable for any loss, injury or damage arising from the sale, supply or use of this product, whether through negligence or otherwise. No responsibility will be accepted for any consequences whatsoever resulting from the use of this product.

<b>UN No. 3018</b>	<b>ORGANOPHOSPHORUS PESTICIDES, LIQUID, TOXIC, N.O.S. (Fenamiphos)</b>	
In a transport Emergency Dial: <b>000</b> Police or fire brigade	SPECIALIST ADVICE IN AN EMERGENCY ONLY <b>1800 638 556</b> ALL HOURS – AUSTRALIA WIDE	
<b>PG II</b>	<b>HAZCHEM 2 X</b>	