

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

**Nemacur<sup>®</sup> 400**

**NEMATICIDE LIQUID**

**Active Constituent: 400 g/L FENAMIPHOS (an anticholinesterase compound)**

**For the control of nematodes and sucking insects in various crops as specified in the DIRECTIONS FOR USE table**

### **GENERAL INSTRUCTIONS**

Use Nemacur in conjunction with good agronomic practices which reduce nematode populations (e.g. nematode resistant cover crops, crop rotations, bare fallow, cultivations). For *pineapples*, other measures to produce an efficient root system, e.g. *Phytophthora* control, are necessary to ensure the full benefit from Nemacur.

### **Export of Treated Produce**

Growers should note that MRLs or import tolerances do not exist in all markets for edible produce treated with Nemacur 400 Nematicide Liquid. If you are growing edible produce for export, please check with Bayer CropScience Pty Ltd for the latest information on MRLs and import tolerances before using Nemacur 400 Nematicide Liquid.

### **Accelerated Biodegradation**

As with other soil insecticides the effectiveness of this product may be reduced as a result of the soil microfloras developing the ability to biodegrade it at an accelerated rate, particularly after repeated application. If unacceptable control occurs, immediately contact your Bayer CropScience representative for detailed information. This product should not be used where the user suspects the soil microfloras have developed the ability to degrade it at an accelerated rate.

Bayer CropScience 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 Bayer CropScience's control.

### **Mixing**

Add the required quantity of Nemacur 400 by pump through the dry break connection system 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 Nemacur 400 to the soil surface by boom spray. Do not exceed 200 kPa or spray drift may occur. Do not apply under windy conditions.

Nemacur requires moisture in the soil. Only apply while the soil is moist at the surface after rain or irrigation unless Nemacur 400 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 10 cm. Incorporate as close to spraying as possible.

### **Guidelines for Trickle Irrigation**

Commence watering to moisten the soil. Then inject Nemacur 400 into the system. Inject Nemacur 400 over as long a period as possible (minimum ½ hour). Flush system with water to ensure no Nemacur remains in the system.

### **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 500 mm 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**

Very dangerous, particularly the concentrate. 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. Obtain an emergency supply of atropine tablets 0.6 mg. When opening the container, 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 full facepiece respirator with combined dust and gas cartridge or 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, respirator, and if rubber, wash with detergent and warm water, and contaminated clothing.

**FIRST AID**

If poisoning occurs, contact a doctor or Poisons Information Centre (telephone 13 11 26). If swallowed, do NOT induce vomiting. Give a glass of water and 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**

Additional information is listed in the Material Safety Data Sheet, which can be obtained from [www.bayercropscience.com.au](http://www.bayercropscience.com.au).

**EXCLUSION OF LIABILITY**

This product must be used strictly as directed, and in accordance with all instructions appearing on the label and in other reference material. So far as it is lawfully able to do so, Bayer CropScience Pty Ltd accepts no liability or responsibility for loss or damage arising from failure to follow such directions and instructions.

Nemacur® is a Registered Trademark of Bayer.

APVMA Approval No.: 33295/1103



<b>ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC (contains fenamiphos)</b>		
<b>UN No. 3018</b>	<b>PG II</b>	<b>HAZCHEM 2X</b>
FOR 24 HOUR SPECIALIST ADVICE IN EMERGENCY ONLY PHONE 1800 033 111		

**DIRECTIONS FOR USE**

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Aloe vera planting material	Soil borne plant parasitic nematodes	Qld, NSW, WA only	1 L/100 L water	-	Air dry or cure prepared pups for 48 hours prior to treatment. Immerse unpaired pups in Nemacur dip solution for 30 minutes. Allow to drain and dry. Wear elbow-length PVC gloves when dipping and when handling dipped material.
Aloe vera	Soil borne plant parasitic nematodes	Qld, NSW, WA only	30 L/ha	-	<b>(a) Before planting:</b> Apply as an overall treatment pre-planting - see <b>GENERAL INSTRUCTIONS</b> .
			30 L/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.
			60 L/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	Soil borne plant parasitic nematodes	Qld, NSW, WA only	100 mL/100 L water	-	Pare the planting material to remove all dead tissue. Immerse planting material in Nemacur dip solution for 10 minutes. Allow to drain and dry. Wear elbow-length PVC gloves when dipping and when handling dipped material.

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Bananas	Soil borne plant parasitic nematodes	Qld (tropical areas), WA (Kimberleys) only	600 mL/100 m of row or 6 mL/stool or 6 mL/m <sup>2</sup> of wetted area or 60 L/ha of wetted area metered into the irrigation water	-	<p><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 e.g. 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.</p> <p>For individual stool treatment apply evenly in an area of 1 m<sup>2</sup> around the stool.</p> <p>For low pressure minisprinkler or microspray irrigation. Inject 6 mL of Nemacur 400 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.</p> <p>For low pressure minisprinkler or microspray irrigation. Meter 60 L 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.</p>
Bananas	Soil borne plant parasitic nematodes	Qld (tropical areas), WA (Kimberleys) only	<b>Maintenance rate</b>  300 mL/100 m of row or 3 mL/stool or 3 mL/m <sup>2</sup> of wetted area or 30 L/ha of wetted area metered into the irrigation water	-	<p><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, e.g. December. 2. Just after the wet season, e.g. April. 3. August. Treat a 0.5 metre band each side of the centre line.</p> <p>For individual stool treatment apply evenly in an area of 1 m<sup>2</sup> around the stool.</p> <p>For low pressure minisprinkler or microspray irrigation. Inject 3 mL of Nemacur 400 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.</p> <p>For low pressure minisprinkler or microspray irrigation. Meter 30 L 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.</p>
		Qld, NSW only (sub-tropical areas)	450 mL/100 m of row or 4.5 mL/m <sup>2</sup>		<p><b>Treatment of plant crop and subsequent ratoon crops:</b> Apply 2 treatments per year: 1. Just prior to the wet season, e.g. December. 2. Just after the wet season, e.g. 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.</p> <p>Inject 4.5 mL of Nemacur 400 for each square metre of wetted area using low pressure irrigation e.g. drip, mini-sprinkler.</p> <p><b>For previously untreated ratoon crops, apply 600 mL/100 m of row or 6 mL/m<sup>2</sup>. Continue treatment 6 months later as set out for plant crops and subsequent ratoon crops.</b></p>
		WA (Carnarvon) only	24 L/ha metered into the irrigation water		<p>Remove weed and trash from treatment area.</p> <p><b>Treatment for plant and ratoon crops:</b> Apply 2 treatments per year in September and again in either December or January.</p>

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Citrus	Soil borne plant parasitic nematodes	Qld, NSW only	<b>Initial rate</b> 75 L/ha or Trickle irrigation 7.5 mL/m <sup>2</sup>  <b>Maintenance rate</b> 37.5 L/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 50 mm water. Inject in spring, 7.5 mL Nemacur 400 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, 3.8 mL Nemacur 400 for each square metre of wetted area. <b>Note:</b> The rootstock Trifoliata is resistant to citrus nematode.
Crucifers	Soil borne plant parasitic nematodes, sucking insects e.g. aphids and thrips	All states	24 L/ha	-	Apply as an overall treatment pre-planting - see <b>GENERAL INSTRUCTIONS</b> .
Cucurbits	Soil borne plant parasitic nematodes, sucking insects e.g. aphids and thrips	All states	24 L/ha or 16 mL/10 m of row	-	Apply as an overall treatment pre-planting or pre-transplanting - see <b>GENERAL INSTRUCTIONS</b> .  Apply on a 60 cm band pre-planting or pre-transplanting - see <b>GENERAL INSTRUCTIONS</b> .
Carrots, Beetroot, Onions, Celery, Sweet potatoes				12 weeks	
Lettuce				8 weeks	
Endive				Qld only	
Parsnips				Tas only	
Grapevines	Soil borne plant parasitic nematodes	All states	30 L/ha  or Trickle irrigation 3 mL/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 200 kPa. Incorporate after spraying as soon as possible to a depth of 10-15 cm and no closer than 45 cm to the vine rows. After treatment irrigate the area with approximately 30-50 mm water.  In late September inject 3 mL Nemacur 400 for each square metre of wetted area. See <b>Guidelines for Trickle Irrigation</b> .
Mushrooms	Soil borne plant parasitic nematodes	All states	65 mL/20 L water (20 L spray mixture per tonne of compost)  or 55 mL/ 1 tonne compost  or 10 mL/ bale of peat weighing 50-60 kg or 55 mL/ 1 tonne casing	6 weeks	<b>Treat compost</b> <b>(a) Before peak heating at the last turn</b> 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. <b>or</b> <b>(b) After peak heating</b> Dilute Nemacur 400 in a convenient volume of water and spray compost. Incorporate thoroughly. <b>or</b> <b>(c) Treat casing</b> Dilute Nemacur 400 in the volume of water per bale used to prepare casing. Incorporate thoroughly. <b>DO NOT TREAT BOTH CASING AND COMPOST.</b>

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Ornamentals (annual)	Soil borne plant parasitic nematodes, sucking insects e.g. aphids and thrips	All states	24 L/ha or Trickle irrigation 16 mL/ 10 m of row	-	Apply as an overall treatment pre-planting - see <b>GENERAL INSTRUCTIONS</b> .  Inject Nemacur 400 into the irrigation system any time from 7 days before up to the time of transplanting. See <b>Guidelines for Trickle Irrigation</b> .
Ornamentals (perennial), Nursery root stock	Soil borne plant parasitic nematodes, sucking insects e.g. aphids and thrips	All states	24 L/ha or Trickle irrigation 16 or 32 mL/10 m of row	-	Apply each spring and early autumn using conventional spraying equipment as an overall treatment at 150-200 kPa. 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 <b>Guidelines for Trickle Irrigation</b> . Use higher rate in areas of known heavy infestation.
Bulbs	Plant parasitic nematodes	Qld, NSW, Tas, WA only	24 L/ha or 16 mL/ 10 m of row	-	Apply as an overall treatment pre-planting - see <b>GENERAL INSTRUCTIONS</b> . Apply on a 60 cm band pre-planting or pre-transplanting - see <b>GENERAL INSTRUCTIONS</b> .
Chrysanthemums	Leaf nematode		100 mL/100 L water or 1 L/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> 250 mL/100 m of bed for a 1 m wide band	-	Apply evenly at the final bed preparation stage to <u>moist soil</u> . Choose a band width to suit the bed size and adjust the rate per 100 metres accordingly. Example: 0.75 m bed width apply 190 mL/100 m 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 Nemacur 400 during the plant crop cycle - see below.
			<b>Plant crop and ratoon crop foliar sprays</b> 6 L/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 Nemacur 400 (see above) or Nemacur 100G applied at the final bed preparation stage - see label of Nemacur 100G Nematicide for recommendation details.
			<b>Ratoon crop foliar sprays only</b> 12 L/ha		If nematodes have infested roots during the 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	Soil borne plant parasitic nematodes	All states	13 L/ha (rows 80 cm apart) or 110 mL/ 100 m of row	12 weeks	<b>(a) Pre-planting:</b> Apply as a spray to a 45 cm band over the row. Then mechanically incorporate. <b>(b) At emergence</b> (for red volcanic soil types only): As soon as sufficient plants have emerged to indicate row position, apply to moist soil and irrigate immediately after application.

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Strawberries	Soil borne plant parasitic nematodes, sucking insects e.g. aphids and thrips	All states	24 L/ha or 16 mL/10 m of row or Trickle irrigation 16 mL/10 m of row	6 weeks	Apply as an overall treatment pre-planting - see <b>GENERAL INSTRUCTIONS</b> .  Apply on a 60 cm band pre-transplanting - see <b>GENERAL INSTRUCTIONS</b> .  Inject Nemacur 400 into the irrigation system any time from 7 days before up to the time of transplanting. See <b>Guidelines for Trickle Irrigation</b> .
Sugar cane	Soil borne plant parasitic nematodes	Qld only	10 L/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	Soil borne plant parasitic nematodes	Qld, Vic only	24 L/ha in 150-300 L water (band treatment 16 mL/10 m of row)	-	Apply any time from 7 days before up to the time of transplanting as an overall treatment or on a 60 cm band. Apply at 150-200 kPa by boom spray onto moist soil. Incorporate with rotary hoe or disc to 10 cm. Incorporate as close to spraying as possible. As soon as possible after incorporation apply at least 25 mm of overhead irrigation.
	Sucking insects e.g. aphids and thrips	Qld only			
Tomatoes	Soil borne plant parasitic nematodes, sucking insects e.g. aphids and thrips	All states	24 L/ha or 16 mL/10 m of row or Trickle irrigation 16 mL/10 m of row	-	Apply as an overall treatment pre-planting or pre-transplanting - see <b>GENERAL INSTRUCTIONS</b> .  Apply on a 60 cm band pre-planting or pre-transplanting - see <b>GENERAL INSTRUCTIONS</b> .  Inject Nemacur 400 into the irrigation system any time from 7 days before up to the time of planting. See <b>Guidelines for Trickle Irrigation</b> .

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

**WITHHOLDING PERIODS (WHP)**

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