

BEFORE USING THIS PRODUCT, READ THE LABEL CAREFULLY. KEEP OUT OF REACH OF CHILDREN AND ANIMALS.

Insecticide



# NEMACUR 100 GR

Reg. No. L 2056 Act No. 36 of 1947  
N-AR 0056 / W1301475

3: 10/6/2022 – June2022

A granular systemic nematicide for the control of nematodes on in bananas, tomatoes, citrus, papayas, cotton, guavas, litchi's, pecan nuts, ginger, vineyard, tobacco and groundnuts.

## ACTIVE INGREDIENT

fenamiphos (organophosphate) 100 g/kg

GROUP

1B

INSECTICIDE



DANGER

### Hazard Statements:

Toxic if swallowed.  
Toxic in contact with skin.  
Causes serious eye irritation.  
Toxic if inhaled.  
Suspected of causing cancer.  
Very toxic to aquatic life with long lasting effects.

### Precautionary Statements:

Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.  
Avoid release into the environment.

kg



UN Number: 2783

Registration holder: VILLA CROP PROTECTION (PTY) LTD.  
Co. Reg. No. 1992/002474/07  
PO Box 10413, Aston Manor, 1630  
Tel. (011) 396 2233  
Website: [www.villacrop.co.za](http://www.villacrop.co.za)

### 24 HR EMERGENCY NUMBERS:

Griffon Poison Centre: +27 82 446 8946  
24 HR Transport / Spill Emergency no: (Hazcall24) +27 86 044 4411  
(Client: Villa Crop Protection)

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

DIRECTIONS FOR USE ENCLOSED

Batch Number:  
Date of Manufacture:

**NEMACUR 100 GR**

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 IRAC INSECTICIDE GROUP CODE: 1B

**ACTIVE INGREDIENT:**

fenamiphos (organophosphate) ..... 100 g/kg

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**WARNINGS****Withholding periods:**

<b>Allow the following number of days between the last application and harvest or feeding of the crops listed below:</b>	
Citrus (bearing trees)	150 days
Guavas and Pecan nuts	120 days
Litchis	70 days
Ginger (harvesting of rhizomes)	250 days
Vines	100 days
Tobacco	51 days
Groundnuts	63 days
<b>ADDITIONAL: Only use as a pre-transplant treatment in tomatoes</b>	

**NOTE**

**THE RECOMMENDED WITHHOLDING PERIOD BETWEEN LAST APPLICATION AND HARVEST MEETS LOCAL RESIDUE REQUIREMENTS BUT MAY NOT MEET EXPORT REQUIREMENTS. IF THE TREATED CROP IS INTENDED FOR THE EXPORT MARKET, CONSULT THE RELEVANT EXPORTING BODY BEFORE APPLICATION OF THE PRODUCT, REGARDING PRE-HARVEST INTERVAL REQUIREMENTS.**

**Hazard statements:**

Toxic if swallowed.
Toxic in contact with skin.
Causes serious eye irritation.
Toxic if inhaled.
Suspected of causing cancer.
Very toxic to aquatic life with long lasting effects.

- Handle with care.
- Toxic to wildlife.
- Store under lock and key in cool, dry and well-ventilated place.
- Store away from food, feeds, seed, fertilizers and other agricultural remedies.
- Keep locked up, out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated field within one (1) day after application unless wearing protective clothing.
- **In case of poisoning call a doctor and make this label available to him/her.**

**Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions. The action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label, the occurrence of resistance of the pest against the remedy concerned, as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions, which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.**

**PRECAUTIONS****Precautionary statements:**

Obtain, read and follow all safety instructions before use.
Avoid breathing dust or spray mist.
Wash hands thoroughly after handling. Do not touch eyes.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Avoid release into the environment.
Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
IF SWALLOWED: Immediately call a POISON CENTER and get emergency medical help.
IF ON SKIN: Wash with plenty of water and non-abrasive soap. Get emergency medical help immediately.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get emergency medical help immediately.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned, get medical advice.
Rinse mouth.
If eye irritation persists: Get medical help.
Take off immediately all contaminated clothing and wash before reuse.
Collect spillage.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of content/container to suitable landfill in accordance with local regulations.

- Keep unprotected persons away from operating area.
- Containers and packages must be completely emptied before being disposed of. Shake out thoroughly into the application hopper before destroying the empty container.
- Destroy the empty container by perforation and flattening and dispose of it in a safe way.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feed, drinking water and eating utensils.

Relevant hazardous components	
Fenamiphos	10 %
Attapulgit GR	< 90 %

**SYMPTOMS OF HUMAN POISONING**

Headache, fatigue, faintness, giddiness, excessive sweating, nausea, abdominal pains, vomiting, diarrhoea, tightness of the chest, anxiety, blurred vision, muscle twitching beginning in the eyelids and tongue, small pupils, respiratory distress, convulsions, coma.

**FIRST AID TREATMENT**Skin contact:

- **Call a physician or poison control centre immediately.** Wash with plenty of water and non-abrasive soap. Remove and isolate contaminated clothing and shoes. Wash contaminated clothing before reuse.

Eye contact:

- Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. **Get medical attention if irritation develops and persists.**

Inhalation:

- Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. **Call a physician or poison control centre immediately.**

Ingestion:

- **Call a physician or poison control centre immediately.** Rinse mouth. Do not induce vomiting without advice from poison control centre. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Never give anything by mouth to a victim who is unconscious or is having convulsions.

**NOTE TO PHYSICIAN**

Administer atropine sulphate intravenously (1 to 4 mg) every 5 to 10 minutes until signs of atropinization (dry flushed skin and tachycardia), 2-PAM 50 mg/kg up to total dose of 1 to 2 g or 66 % of this dose of Protopam. Repeat oximes if necessary. Do not give morphine.

The following antidotes are generally accepted: atropin and oximes.

**RESISTANCE WARNING**

**NEMACUR 100 GR** is a group code 1B insecticide. Any insect population may contain individuals naturally resistant to **NEMACUR 100 GR** and other group code 1B insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **NEMACUR 100 GR** or any other group code 1B insecticide.

To delay insecticide resistance:

- avoid exclusive repeated use of insecticides from the same insecticide group code. Alternate or tank mix with products from different insecticide group codes,
- integrate other control methods (chemical, cultural, biological) into insect control programmes.

For specific information on resistance management contact the registration holder of this product.

**Mode of action:**

**NEMACUR 100 GR** contains **Fenamiphos**. **Fenamiphos** is a phosphoramidate compound belonging to IRAC mode of action group 1B. It is a systemic nematocide that is active by contact and inhibits the acetylcholinesterase by covalent reaction with the enzyme at the acetylcholine binding site, blocking hydrolysis of acetylcholine and resulting in hyperexcitation. It is absorbed through the roots and is translocated to the leaves.

**DIRECTIONS FOR USE: Use only as directed.****Compatibility:**

- **NEMACUR 100 GR** must not be mixed and applied simultaneously with fertilizer from a single granule applicator.

**Application:**

- An accurate, properly calibrated granule applicator must be used. Downpipes from the applicator into the seeding furrow should be set at a sufficiently steep angle, to ensure even flow of granules. Regular checks are advised to prevent blockages. Ensure an even distribution of the granules.
- As with all soil applied insecticides, sufficient moisture is necessary for the release of the active ingredient.
- **NEMACUR 100 GR** has not been tested for its effect on *Globedera rostochensis* and *Meloidogyne chitwoodi*. Its use is therefore not recommended for the control of these nematode species.

**Citrus:**

- For plant densities of more than 300 trees per hectare the maximum application rate per tree becomes proportionately less so as not to exceed the maximum application rate of 120 kg **NEMACUR 100 GR** per hectare or 400 g per tree. Refer table below.

**Table 1:** Application rate in mg **NEMACUR 100 GR** per m<sup>2</sup> basin area.

Trees per hectare	Basin area				
	4m <sup>2</sup>	6 m <sup>2</sup>	8 m <sup>2</sup>	10 m <sup>2</sup>	12 m <sup>2</sup>
200	40	40	40	40	33
250	40	40	40	40	33
300	40	40	40	40	33
350	40	40	40	34	28
400	40	40	37	30	25
450	40	40	33	26	22
500	40	40	30	24	20
550	40	36	27	21	18

**APPLICATION RATES**

<b>Crop / Pest</b>	<b>Rate of Application</b>	<b>Remarks</b>
<b>Bananas</b> Nematodes	50 g / mat (Twice annually)  30 g / mat (Twice annually)  Under known low nematode infestation.	Apply <b>NEMACUR 100 GR</b> to a weed free and trash free soil surface of 1 m <sup>2</sup> around selected pseudostem. Incorporate granules immediately into the top layer of the soil preferably by sprinkler irrigation. In case of mechanical incorporation avoid root damage. Avoid washing the chemical away whilst still on the soil surface with excess irrigation water. Commence application at planting or in the case of established plantations in August. <u>In all cases</u> one application should be made in August followed five months later by a second application in January. If the first follow-up application (August or January) is within five months after planting, this application should be omitted. Applications are to be repeated annually in August and January.
<b>Tomatoes</b> Rootknot nematodes	Apply 10 g per linear metre in a 30 cm band over the planting row	<b>Pre-plant soil treatment</b> Incorporate the granules immediately into the top layer of the soil by sprinkler irrigation or by mechanical means. Plant tomatoes within 2 weeks of treatment.
<b>Groundnuts</b> Pod nematode (Ditylenchus destructor)	150 g / 100 linear m in furrow at planting	<b>Drylands:</b> Apply the granules in the furrow at planting. Sufficient rainfall is necessary for optimal efficacy of <b>NEMACUR 100 GR</b> .
<b>Citrus</b> Nematodes <b>Young trees</b> (non bearing)	40 g / m <sup>2</sup> basin area	Apply the granules evenly to the soil surface in the tree basin area, after the trees have become established and repeat annually in spring. Irrigate immediately after application with at least 25 mm water.
<b>Bearing trees</b> Excluding lemons and kumquats	<u>Initial Treatment</u> 18 to 40 g / m <sup>2</sup> basin area. Application rate depends on number of trees per hectare and size of basin area. (Refer Table 1)	Apply the granules evenly in spring to the soil surface in the tree basin area. Irrigate immediately after application with at least 25 mm water.
	<u>Maintenance Treatment</u> 20 g / m <sup>2</sup> basin area	Apply the following season in spring as indicated above. Thereafter repeat annually.
<b>Do not exceed 120 kg per hectare or 400 g per tree. Refer "DIRECTIONS FOR USE" above.</b>		
<b>Papayas</b> Nematodes	Apply evenly to the soil surface in the plant basin at a rate of 40 g / m <sup>2</sup>	Apply in early spring (August to October). Incorporate granules immediately into top layer of the soil either mechanically or by sprinkler irrigation. Avoid washing the chemical away by excessive irrigation.
<b>Cotton</b> Nematodes	150 g / 100 linear m in furrow at planting	Will also control early infestations of Thrips and Jassids. Ensure that the granule applicator is properly calibrated and that the stream of granules into the furrow is regular at all times and covered with soil.
<b>Guavas &amp; Litchi's</b> Nematodes	<u>Initial treatment</u> 30 g / m <sup>2</sup> basin area	Apply the granules evenly, in spring, to spring, to the soil surface in the tree basin area. Irrigate immediately after application with at least 25 mm water.
	<u>Follow-up treatment</u> 15 g / m <sup>2</sup> basin area	Apply annually in spring as indicated above.

<b>Crop / Pest</b>	<b>Rate of Application</b>	<b>Remarks</b>
<b><u>Pecan nuts</u></b> Nematodes	10 g / m <sup>2</sup> basin area	Apply the granules evenly, in Spring, to a trash free soil surface in the tree basin area. Irrigate immediately after application with at least 25 mm water.
<b><u>Ginger</u></b> Nematodes	1.0 kg / 100 linear m in furrow at planting	Apply the granules in the furrow at planting.
<b><u>Vineyards</u></b> Nematodes	10 g / m <sup>2</sup> (1 kg / 100 m row)	Apply the granules in a 50 cm band on either side of the vine row on the bankie to a weed free surface, either as a spring application 14 days before expected bud burst, or as an autumn application directly after harvest. <b>NEMACUR 100 GR</b> must be incorporated in the soil either by sufficient rain in order to wash the product into the soil or by irrigation. If at least 20 mm of rain has not fallen within 14 days of application, then incorporate by means of irrigation, applying 13 mm followed by a further 13 mm of water 10 days later.
<b><u>Tobacco</u></b> Root-knot nematodes	<u>Before transplanting</u> Soil fumigation	Fumigate soil with a registered soil fumigant.
	<u>After transplanting</u> 1.5 g / plant	Apply 3 weeks after transplanting to the base of the plant. Irrigate immediately after application to incorporate the <b>NEMACUR 100 GR</b> .