

FARMAG

FENAMIPHOS 400 EC

Reg. No. / Nr L10720 Act No. 36 of 1947/ Wet Nr 36 van 1947

INSECTICIDE**READ THE LABEL AND ATTACHED PACKAGED LEAFLET BEFORE USE
KEEP OUT OF REACH OF CHILDREN AND ANIMALS****IRAC INSECTICIDE GROUP CODE****1B****INSEKODERGROEPPKODE**

A systemic soil applied emulsifiable concentrate for the control of nematodes on potatoes, citrus, pineapples, grapes, peaches, nectarines, groundnuts, onions and tobacco and a leaf treatment on potatoes for the control of nematodes and aphids only in the Western Cape.

in Sisteemiese grondtoegediende emulgeerbare konsentraat vir die beheer van aalwurms in aartappels, sitrus, nektariens, perskes, pynappels, wingerde, grondbone, uie en tabak en as 'n blaarbespuiting op aartappels vir die beheer van aalwurms en plantluise slegs in die Wes-Kaap.

ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL:

Fenamiphos (organophosphate).....400 g/l.....Fenamifos (organofosfaat)

**DANGER****Hazard Statements:**

Flammable liquid and vapour.
Fatal if swallowed, in contact with skin.
Causes serious eye damage.
May cause damage to organs (Pulmonary edema) through prolonged or repeated exposure (Inhalation).
Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
Do not breathe vapours/spray.
IF SWALLOWED: Immediately call a poison centre or doctor.
IF ON SKIN: Wash with plenty of soap and water. Take off immediately all contaminated clothing.
IF IN EYES: Rinse cautiously with water for several minutes.
Immediately call a poison centre or doctor.
In case of fire: Use carbon dioxide (CO₂), dry extinguishing powder to extinguish.

Batch No:

D.O.M:

D.O.E:

Net Mass:

See reverse of packaging for details.

FOR FULL PARTICULARS SEE ATTACHED PAMPHLET.
VIR VOLLEDIGE BESONDERHEDE KYK AANGEHEGTE ETIKET.

UN No. / VR Nr: 2903



REGISTRATION HOLDER/ REGISTRASIEHOUER

Farm Ag International (Pty) Ltd

Reg. Nr.: Reg. No. 2005/011761/07

61 Marshall Drive, Old Mill Industrial Park,

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Tel: 031 003 3486

FARMAG

Poison Information Helpline (24 hrs): 0861 555 777

**BARCODE**

100424

165(H) x 140(W) mm

CYAN

MAG

YEL

BLK

100424

WARNINGS

Hazard Statements: Flammable liquid and vapour. Fatal if swallowed, in contact with skin or if inhaled. Causes skin irritation. Causes serious eye damage. May cause damage to organs (Pulmonary edema) through prolonged or repeated exposure (Inhalation). Very toxic to aquatic life with long lasting effects

- **Pre-Harvest Interval (PHI):** Allow the following minimum number of days between the last application and harvesting or use as fodder:

Potatoes	42 days	Onions	80 days
Tobacco	42 days	Grapes	100 days
Pineapples	56 days	Peaches	100 days
Groundnuts (fodder)	63 days	Citrus (bearing trees)	150 days

Note: The above recommended withholding period from last application to harvest will meet the local residual requirements but is not guaranteed to meet export requirements.

- Handle with extreme care.
- Keep out of reach of children, uninformed persons and animals.
- Store under lock and key, away from food and feedstuffs.
- **Flammable** – do not store or handle near open flame.
- **Re-entry Interval:** Do not enter treated area within 2 days after treatment unless wearing protective clothing.
- **In case of poisoning, call a doctor immediately and make label available to him.**

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 because 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 and 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 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

General: If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof equipment. Use non-sparking tools. Take action to prevent static discharges. Do not breathe vapours/spray. Do not get in eyes, on skin, or on clothing. Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective clothing, eye protection, face protection, protective gloves. In case of inadequate ventilation wear respiratory protection.

Response: IF SWALLOWED: Immediately call a poison centre or doctor. IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison centre or doctor. Get medical advice/attention if you feel unwell. Specific treatment is urgent (see ANTIDOTE on this label). Rinse mouth. If skin irritation occurs: Get medical advice/attention. Take off immediately all contaminated clothing and wash it before reuse. Take off contaminated clothing and wash it before reuse. In case of fire: Use carbon dioxide (CO₂), dry extinguishing powder to extinguish. Collect spillage.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

Disposal: Dispose of contents and container to an approved waste disposal plant.

- Do not eat, drink or smoke whilst mixing or applying or before washing hands and face and change of clothing.
- Prevent contamination of food, feedstuff, eating utensils and drinking water.
- Prevent drift of spray mist onto other crops, grazing, rivers, dams or areas not under treatment.
- **TRIPLE RINSE the empty container as follows:** Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler (www.croplife.co.za). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.
- Destroy empty container by perforation and do not use for any other purpose.

RELEVANT SUBSTANCES:

NAME	PRODUCT IDENTIFIER
Fenamiphos 94% TC	CAS-No.: 22224-92-6
Solvent Naphtha	CAS-No.: 64742-94-5
1,2 propanediol	CAS-No.: 57-55-6
calcium dodecylbenzenesulphonate	CAS-No.: 26264-06-2
Tristyrylphenol Ethoxylates	CAS-No.: 99734-09-5

SYMPTOMS OF HUMAN POISONING

This is a cholinesterase inhibitor. Symptoms of human poisoning are malaise, weakness, headache, nausea, vomiting, giddiness and anorexia.

FIRST AID TREATMENT

EYES:

Flush with plenty of water for at least 15 minutes. Get medical attention immediately.

SKIN:

Remove contaminated clothing. Wash affected area with plenty of soap and water. Get medical attention if irritation develops. Contaminated clothing must be thoroughly washed before reuse.

INHALATION:

Remove person to fresh air. If not breathing, give artificial respiration. Get medical attention immediately.

INGESTION:

Get medical attention immediately. Induce vomiting by drinking one or two glasses of water and then tickle the back of the throat with a finger.

Do not induce vomiting or give anything by mouth to an unconscious person. Do not do direct mouth to mouth respiration.

NOTE TO PHYSICIAN

This is an organophosphate insecticide. If symptoms of poisoning are present, the administration of atropine sulphate is indicated. 2-PAM may also be administered.

Do not give morphine.

RESISTANCE WARNING

For resistance management, **FARMAG FENAMIPHOS 400 EC** is a group code **1B** insecticide. Any insect population may contain individuals naturally resistant to **FARMAG FENAMIPHOS 400 EC** 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 **FARMAG FENAMIPHOS 400 EC** or any other group code **1B** insecticide.

To delay insecticide resistance:

- Avoid exclusive repeated use of insecticide from the same insecticide group code. Alternate or tank mix with products from different insecticide 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:

Cholinesterase inhibitor. Systemic nematicide with contact action. Absorbed by the roots, with translocation to the leaves. Against soil populations of ectoparasitic nematodes, fenamiphos is more persistent and more effective than the sulfoxide metabolite; the sulfone metabolite is least effective. Against plant endoparasitic nematodes, the sulfone is more effective than the sulfoxide.

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

The compatibility of **FARMAG FENAMIPHOS 400 EC** with other products has not yet been tested and may be influenced by the formulation of the products involved as well as the quality of the water.

A physical compatibility test should always be conducted before spraying.

Mixing Instructions and application

Half fill the spray tank with water and add the required quantity of **FARMAG FENAMIPHOS 400 EC** while the water in the tank is being stirred. Add water to make up the desired spray volume. Keep the spray mixture agitated during mixing and spraying.

Spraying should be carried out on cool, windless days with rapid drying conditions.

TOBACCO: To avoid possible crop damage **FARMAG FENAMIPHOS 400 EC** foliar sprays should only be applied under cool conditions onto healthy actively growing tobacco plants that are not under water stress.

POTATOES: In the case of potatoes, good coverage of the plants is essential. The plants should be in a state of healthy growth and not subject to stem and foliage factors such as blight, tuber moth and hail. Similarly the plants should be free from weed competition. Healthy seed tubers of uniform maturity should be planted in order to ensure simultaneous emergence, which is important.

Under certain conditions **FARMAG FENAMIPHOS 400 EC** will cause deformed leaves and necrotic spots may also occur. The leaf symptoms differ from those caused by virus diseases and will not be mistaken by Plant Pest Control Inspectors. Seed potato producers should inform inspectors when using **FARMAG FENAMIPHOS 400 EC**. When heavy nematode infestations occur, **FARMAG FENAMIPHOS 400 EC** will control the problem but potato producers should not expect an absolutely clean crop. Dry conditions after application may lead to reduced efficacy. The potatoes should be lifted as soon as the full crop potential is reached. The practice of storing potatoes in the ground may result in a late nematode infestation.

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 30 liter **FARMAG FENAMIPHOS 400 EC** per hectare or 100 mℓ per basin.
Refer to table below:

Application rate in mℓ product/m ² basin area					
NO OF TREES/HA	BASIN AREA				
	4m ²	6m ²	8m ²	10m ²	12m ²
200	10	10	10	10	8
250	10	10	10	10	8
300	10	10	10	8	8
350	10	10	10	7	7
400	10	10	9	6	6
450	10	10	8	5	5
500	10	10	7	5	5
550	10	9	6	4	4

NB. FARMAG FENAMIPHOS 400 EC will control nematodes as indicated in the table below but **not** *Meloidogyne chitwoodi* and *M. fallax*.

CROP/PEST	DOSAGE	REMARKS
TOBACCO Root-knot nematodes Tobacco spider mite	<u>Before transplanting:</u> Soil fumigation	Fumigate soil prior to planting with a registered soil fumigant.
	<u>After transplanting:</u> 3 ℓ in 500 ℓ water/ha	1. Apply as a directed foliar spray onto the leaves below the growing point (heart) of the plant three weeks after transplanting. 2. Repeat the above application 5 to 6 weeks after transplanting. Warning: do not apply during hot, dry conditions on plants that are under water stress. This treatment will also control tobacco spider mite if present at the time of application.
GROUNDNUTS Nematode <i>(Ditylenchus destructor)</i>	4 - 8 ℓ/ha	Irrigated lands: Apply immediately after planting as an overall treatment in approximately 300 ℓ water/ha. Irrigate immediately after application. Dry lands: Apply as an overall treatment in approximately 500 ℓ water/ha and incorporate mechanically (e.g. by harrowing) to a depth of 7.5 cm before planting. Sufficient rainfall is necessary for optimal efficacy of FARMAG FENAMIPHOS 400 EC . Use the lower rate on dry lands crops or where nematode pressure is less.
POTATOES All areas except Northern Cape and North West Province Nematodes	250 ml/100 m plant furrow (25 ℓ/ha for rows 1 m apart)	Draw the planting furrows. Spray the FARMAG FENAMIPHOS 400 EC onto total furrow area, plant potatoes, then close furrows.
	150 ml/100 m plant furrow (15 ℓ/ha for rows 1 m apart)	Use the lower dosage on table potatoes in the Eastern Highveld of Mpumalanga. Use only on 4 year rotation crop on lands with a low infestation for July-August plantings. Apply as directed above.
POTATOES Northern Cape only Nematodes	<u>Before planting:</u> Soil fumigation	Fumigate the land with a registered fumigant prior to transplanting.
	followed by 250 ml/100 m plant furrow (25 ℓ/ha for rows 1 m apart)	Draw the planting furrows. Spray the FARMAG FENAMIPHOS 400 EC onto the total furrow area, plant potatoes and then close furrows.
POTATOES Western Cape only Nematodes and Aphids	<u>Before planting:</u> Soil fumigation	Fumigate the land with a registered fumigant prior to transplanting.
	Apply 4 ℓ in 450 - 500 ℓ water/ha. A total of six (6) sprays are required.	The first three sprays should be applied at weekly intervals commencing about 7 - 10 days after the emergence of the plants. The fourth and subsequent sprays are applied at 14-day intervals. Spray nozzles should be mounted so as to direct the spray to the plant rows ensuring full coverage.
CITRUS Nematodes Young non-bearing trees	10 ml/m ² basin area	Apply evenly to the soil surface in the basin area, after the trees have become established and repeat annually in Spring. Irrigate immediately after application with at least 25 mm water.

CROP/PEST	DOSAGE	REMARKS
Bearing trees	<u>Initial treatment:</u> 4 - 10 mℓ/m ² basin area <u>Maintenance treatment:</u> 5 mℓ/m ² basin area	Apply in Spring evenly to the soil surface in tree basin area. Irrigate immediately after application with at least 25 mm water. Application rate depends on number of trees/ha and size of basin area - see table under "Directions for use". NOTE: Do not exceed 30 ℓ product/ha or 100 mℓ/basin. See "Directions for use". Do not use on lemons and kumquats. Apply the following season in Spring as indicated above. Thereafter repeat annually.
ONIONS Nematodes	7.5 ℓ/ha	Bulb and transplanted onions: Apply evenly to the soil in at least 250 ℓ water prior to planting or transplanting and incorporate mechanically (e.g. shallow disc). Application can also be made immediately after planting or transplanting. Incorporation immediately after application by means of overhead irrigation.
TOMATOES Rootknot nematodes	<u>Pre-plant soil treatment:</u> 250 mℓ/100 m row in 30 cm wide band over the row	Apply 250 mℓ/100 m row in a 30 cm wide band over the planting row. Apply to the land prior to transplanting at any time from two weeks before until immediately before transplanting. Calibrate the applicator with clean water before the actual application in order to determine the volume of water the applicator requires to cover the required distance of band treatment. Mix the dosage prescribed in the volume of water thus determined. After the FARMAG FENAMIPHOS 400 EC is applied it should immediately be incorporated lightly into the top layer of soil by mechanical means or by sprinkler irrigation. Under careful supervision, it could also be applied onto standing irrigation water diverted into planting basins. Avoid washing the material away with strong flooding while it is still on the soil surface.
VINEYARDS Nematodes	2,5 mℓ/m ² (250 mℓ/2,5 ℓ water/100 m row as a 1 m wide band over the row)	FARMAG FENAMIPHOS 400 EC must be applied as a 50 cm wide band on either side of the vine row (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. FARMAG FENAMIPHOS 400 EC 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. NOTE: FARMAG FENAMIPHOS 400 EC may be applied through a suitable calibrated microjet irrigation system provided application is according to directions given above.

CROP/PEST	DOSAGE	REMARKS
<p>PEACHES, including Nectarines</p> <p>Nematodes</p> <p>NOTE: leaf damage may occur when low quality trees are treated.</p>	<p>2,5 mℓ/m² in 2 ℓ water</p>	<p>Apply within six weeks after establishment of the young trees, in Spring and again in March to April.</p> <p>Repeat the two applications during the second year. Apply the mixture to an area of 1 m² around each tree. Hereafter a post harvest treatment may be applied annually if necessary. Apply at a rate of 2.5 mℓ/m² to the drip area. In the case where trees are planted 2 metre or less apart, the mixture can be applied continuously on a 1 metre bankie over the row of trees. The soil should be moist, weed-free and bare. Incorporate after application by irrigation with 13 mm water followed by 13 mm water 10 days later.</p>
<p>PINEAPPLES</p> <p>Nematodes</p>	<p>6,25 ℓ in a minimum of 1000 ℓ water/ha</p>	<p>Apply by ground-rig. Use only on plant crop.</p> <p>A total of three sprays per crop cycle is required.</p> <p>The first foliar spray should be applied at the first signs of root formation. Two subsequent sprays are applied at three-month intervals. Spray nozzles should be mounted so as to direct the spray onto the rows, ensuring full coverage. Flower inducing chemicals should not be applied within three months of the last FARMAG FENAMIPHOS 400 EC foliar spray. Very dry or wet conditions can adversely influence the treatment. Slight chlorosis, which disappears with time, may occur after treatment.</p>

WAARSKUWINGS

Gevaarstellings: Vlambare vloeistof en damp. Dodelik indien ingesluk, in kontak met die vel of indien ingeasem. Veroorsaak velirritasie. Veroorsaak ernstige oogskade. Mag skade aan organe veroorsaak (pulmonêre edeem) deur langdurige of herhaalde blootstelling (Inaseming). Baie giftig vir waterlewe met langdurige effekte.

• **Onthoudingsperiode:** Laat die volgende minimum aantal dae tussen die laaste toediening en oes of as gebruik vir voer toe:

Aartappels	42 dae	Uie	80 dae
Tabak	42 dae	Druive	100 dae
Pynappels	56 dae	Perskes	100 dae
Grondbone (voer)	63 dae	Sitrus (draende bome)	150 dae

Nota: Die aanbevole onthoudingsperiode tussen laaste toediening en oes voldoen aan die vereistes vir plaaslike residuvlakke maar mag dalk nie voldoen aan die vereistes vir uitvoer nie.

- Hanteer uiters versigtig.
- Hou buite bereik van kinders, oningeligte persone en diere.
- Bêre agter slot en grendel, weg van voedsel en voer.
- **Vlambaar** – moenie naby vlamme bêre of hanteer nie.
- **Herbetreding:** Moet nie behandelde gebied binne 2 dae na toediening betree tensy beskermende klere gedra word nie.
- **In geval van vergiftiging, ontbied onmiddellik 'n genesheer en toon die etiket aan hom.**

Alhoewel hierdie middel omvattend onder 'n groot verskeidenheid toestande getoets is, waarborg die registrasiehouernie dat dit onder alle toestande doeltreffend sal wees nie aangesien die werking en effek daarvan beïnvloed kan word deur faktore soos abnormale grond-, klimaats- en bergingstoestande, kwaliteit van verdunningswater, verenigbaarheid met ander stowwe wat nie op die etiket aangedui is nie en die voorkoms van weerstand van die plaag teen die betrokke middel asook die metode, tyd en akkuraatheid van toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei, die omgewing of vir nadelige effek op mens of dier of vir gebrek aan prestasie van die betrokke middel as gevolg van die versuim van die gebruiker om etiketaanwysings na te kom of as gevolg van die ontstaan van toestande wat nie kragtens die registrasie voorsien kon word nie. Raadpleeg die verskaffer in die geval van enige onsekerheid.

VOORSORGMATREËLS

Voorsorgstellings

Algemeen: Indien mediese advies benodig word, hou produkhouer of etiket byderhand. Hou buite bereik van kinders. Lees etiket voor gebruik.

Voorkoming: Hou weg van hitte, warm oppervlaktes, vonke, oop vlamme en ander ontstekingsbronne. Geen rook nie. Hou die houer dig toe. Grond en bind houer en ontvangtoerusting. Gebruik ontploffingsvaste toerusting. Gebruik gereedskap wat nie vonkel nie. Neem aksie om statiese ontladings te voorkom. Moet nie dampe/spuitnewel inasem nie. Moenie in oë, vel of klere kom nie. Was hande, voorarms en gesig deeglik na hantering. Moet nie eet, drink of rook wanneer hierdie produk gebruik word nie. Gebruik slegs buite of in 'n goet geventileerde area. Vermy vrylating na die omgewing. Dra beskermende klere, oogbeskerming, gesigbeskerming, beskermende handskoene. Dra asemhalingsbeskerming in geval van onvoldoende ventilasie.

Reaksie: INDIEN INGESLUK: Ontbied onmiddellik 'n gifsentrum of dokter. INDIEN OP DIE VEL: Was met baie seep en water. INDIEN OP DIE VEL (of hare): Trek onmiddellik alle gekontamineerde klere uit. Spoel vel uit met water/stort. INDIEN IN OË: Spoel versigtig uit met water vir 'n paar minute. Verwyder kontaklense, indien teenwoordig en maklik om te doen. Gaan voort met spoel. Bel dadelik 'n gifsentrum of dokter. Kry mediese advies/aandag as jy onwel voel. Spesifieke behandeling is dringend (sien TEGENMIDDEL op hierdie etiket). Spoel mond uit. Indien velirritasie voorkom: Kry mediese advies/aandag. Trek onmiddellik alle gekontamineerde klere uit en was dit voor hergebruik. Trek besoedelde klere uit en was dit voor hergebruik. In geval van brand: Gebruik koolstofdioksied (CO₂), droë bluspoer om te blus. Versamel gemors.

Berging: Berg in 'n goet geventileerde plek. Hou die houer dig toe. Berg in 'n goet geventileerde plek. Hou koel. Stoor toegesluit.

Wegdoening: Gooi inhoud en houer weg na 'n goedgekeurde afvalverwyderingsaanleg.

- Moenie eet, drink of rook tydens vermenging of toediening of voordat hande en gesig gewas en ander klere na gebruik aangetrek is nie.
- Voorkom besoedeling van voedsel, voer, eetgerei en drinkwater.
- Voorkom die oorwaai van spuitnewel na ander gewasse, weiding, riviere, damme of gebiede wat nie onder behandeling is nie.
- **SPOEL die leë houër DRIEKEER UIT soos volg:** Keer die leë houër om oor die spuit- of mengtenk en dreineer vir ten minste 30 sekondes nadat die vloeit tot drup verlangsam het. Spoel die leë houër daarna drie keer agtereenvolgens uit met een kwart van die houervolume vars water en gooi die spoelwater in die spuit- of mengtenk. Prik die drievoudig uitgespoelde houër deur en gooi weg via 'n goedgekeurde versamelelaar of herwinner (www.croplife.co.za). Moet nie die houër begrawe, verbrand of skenk aan enige ander partye wat dit as 'n houër vir kos of drank kan gebruik nie.
- Vernietig leë houër deur gate in te slaan en moet vir geen ander doel gebruik nie.

RELEVANTE STOWWE:

NAAM	PRODUK IDENTIFISEERDER
Fenamiphos 94% TS	CAS-Nr.: 22224-92-6
Oplosmiddel Nafta	CAS-Nr.: 64742-94-5
1,2 Propaanediol	CAS-Nr.: 57-55-6
Kalsiumdodiesielbenseensulfonaat	CAS-Nr.: 26264-06-2
Tristyrylfenol-etoksilate	CAS-Nr.: 99734-09-5

SIMPTOME VAN MENSLIKE VERGIFTIGING

Hierdie middel is 'n cholinesterase inhibeerder. Simptome van menslike vergiftiging is lusteloosheid, swakheid, hoofpyn, mislikheid, vomering, duiseligheid en anoreksia.

NOODHULP BEHANDELING

OE:	Spoel uit met baie water vir ten minste 15 minute. Kry onmiddellik mediese behandeling.
VEL:	Verwyder besmette klere. Was besmette vel met volop seep en water. Kry mediese behandeling indien irritasie ontwikkel. Besmette klere moet deeglik gewas word voor hergebruik.
INASEMING:	Verwyder die persoon na vars lug. Verkry onmiddellik mediese behandeling. Indien geen asemhaling, gee kunsmatige asemhaling.
INNAME PER MOND:	Verkry onmiddellike mediese behandeling. Veroorsaak vomering deur een of twee glase water te drink en daarna die agterste gedeelte van die keel met 'n vinger te prikkel. Moet nooit vomering aanmoedig of enige iets per mond aan 'n bewustelose persoon toedien nie. Moet nie direkte mond-tot-mond asemhaling toepas nie.

NOTA AAN GENEESHEER

Hierdie is 'n organofosfaat insekdoder. Indien simptome van vergiftiging voorkom, dien atropiensulfaat toe. 2-PAM kan ook toegedien word. Moet nie morfien toedien nie.

WEERSTANDWAARSKUWING

FARMAG FENAMIPHOS 400 EC is 'n groepkode 1B insekdoder. Enige populasie van 'n spesifieke insek mag individue insluit wat 'n natuurlike weerstand teen **FARMAG FENAMIPHOS 400 EC**, of enige ander groepkode 1B insekdoder het. Indien hierdie insekdoders herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die insekpopulasie oorheers. Hierdie weerstandbiedende insekte sal waarskynlik nie deur **FARMAG FENAMIPHOS 400 EC** of enige ander groepkode 1B insekdoder beheer word nie.

Om weerstand teen insekdoders te vertraag:

- Verminder die eksklusiewe herhaaldelike gebruik van insekdoders met dieselfde groepkode. Wissel af met, of gebruik tenkingsels van produkte in verskillende insekdodergroepkodes.
 - Integreer ander beheermaatreëls (chemies, verbouing, biologies) in insekdoderprogramme.
- Vir spesifieke inligting oor weerstandsbestuur kontak die registrasiehouer van hierdie produk.

WYSE VAN AKSIE:

Cholinesterase inhibeerder. Sisteemiese aalwurmdoder met kontakaksie. Geabsorbeer deur die wortels, met translokasie na die blare. Teen grondbevolkings van ektoparasitiese aalwurms is fenamifos meer aanhoudend en doeltreffender as die sulfoksiedmetaboliet; die sulfonmetaboliet is die minste effektief. Teen plant-endoparasitiese nematodes is die sulfon meer effektief as die sulfoksied.

GEBRUIKSAANWYSINGS: Gebruik slegs soos aangedui.

Verenigbaarheid

Die verenigbaarheid van **FARMAG FENAMIPHOS 400 EC** met ander produkte is nie bepaal nie en kan beïnvloed word deur die formulasie van die betrokke produk asook deur die kwaliteit van die water.

'n Fisiese verenigbaarheidstoets moet altyd uitgevoer word alvorens gespuit word.

Menginstruksies en toediening

Maak die spuitnek halfvol met water en voeg die verlangde hoeveelheid **FARMAG FENAMIPHOS 400 EC** by terwyl die water geroer word. Voeg water by totdat die verlangde spuitvolume verkry is. Hou die spuitmengsel in roering tydens vermenging en toediening.

Spuit verkieslik op koel, windlose dae wanneer afdroging vinnig sal geskied.

TABAK:

Om moontlike skade te verhoed moet **FARMAG FENAMIPHOS 400 EC** toegedien word onder koel toestande as 'n gerigte blaarbespuiting op aktiefgroeiende tabakplante wat nie onder vogstremming verkeer nie.

AARTAPPELS:

Die plante moet deeglik bedek word. Die plante moet in 'n gesonde groeitoestand wees en nie onderworpe wees aan stam en blaarskade soos roes, aartappelmot en hael nie. Die plant moet ook nie blootgestel wees aan onkruidkompetiese nie. Gesonde saadaartappels in 'n eenvormige stadium van ontwikkeling moet geplant word. Dit is belangrik om te verseker dat plante gelyk opkom. Onder sekere omstandighede sal **FARMAG FENAMIPHOS 400 EC** misvormde blare en nekrotiese kolle veroorsaak. Die blaarsimptome verskil van die van virussiektes en die Plantplaaig-beheerinspekteurs sal nie daardeur verwar word nie. Saadaartappelprodusente moet inspekteurs inlig indien **FARMAG FENAMIPHOS 400 EC** gebruik is. Waar swaar aalwurmbesmettings voorkom sal **FARMAG FENAMIPHOS 400 EC** die probleem beheer maar aartappelproduseerders kan nie 'n absolute skoon oes verwag nie. Droë toestande na toediening mag lei tot 'n vermindering in effektiwiteit. Sodra volle oespotensiaal bereik is, behoort die aartappels uitgehaal te word. Die praktyk om aartappels in die grond te bewaar, mag 'n laat aalwurmbesmetting tot gevolg hê.

SITRUS:

Ingeval van plantdigtheid van meer as 300 bome/ha word die maksimum toedieningshoeveelheid per boom proporsioneel minder sodat die maksimum toedieningshoeveelheid van 30 liter **FARMAG FENAMIPHOS 400 EC** per hektaar of 100 ml per besproeiak area nie oorskry word nie. Raadpleeg onderstaande tabel:

AANTAL BOME/HA	Toedieningshoeveelheid in ml produk/m ² besproeiingsbakarea				
	BESPROEIINGSBAKAREA				
	4m ²	6m ²	8m ²	10m ²	12m ²
200	10	10	10	10	8
250	10	10	10	10	8
300	10	10	10	8	8
350	10	10	10	7	7
400	10	10	9	6	6
450	10	10	8	5	5
500	10	10	7	5	5
550	10	9	6	4	4

NB.

FARMAG FENAMIPHOS 400 EC sal aalwurms, soos in die tabel hieronder aangedui, beheer maar **nie** *Meloidogyne chitwoodi* en *M. fallax* nie.

GEWAS/PLAAG	DOSIS	OPMERKINGS
TABAK Knopwortelaalwurms Tabakspinmyt	<u>Voor uitplant:</u> Grondberoking	Behandel grond voor uitplant met 'n geregistreerde berokingsmiddel.
	<u>Na uitplant:</u> 3ℓ in 500 ℓ water/ha	<ol style="list-style-type: none"> 1. Dien toe as 'n gerigte blaarspuiting onderkant die groeipunt (hart) van die plant drie weke na uitplant. 2. Herhaal bogenoemde toediening 5 tot 6 weke na uitplant. <p>Waarskuwing: Moenie tydens warm, droë toestande op plante wat onder vogstremming verkeer, toedien nie. Bogenoemde behandeling sal ook tabakspinmyt beheer indien teenwoordig tydens toediening.</p>
GRONDBONE Aalwurm (<i>Ditylenchus destructor</i>)	4 - 8 ℓ/ha	<p>Besproeide lande: Dien toe onmiddellik na plant as 'n algehele toediening in ongeveer 300 ℓ water/ha. Besproei onmiddellik na toediening.</p> <p>Droëlande: Dien toe as 'n algehele toediening in ongeveer 500 ℓ water/ha en inkorporeer meganies (bv. deur in te eg) tot 'n diepte van 7.5 cm voordat geplant word. Genoegsame reën is noodsaaklik vir optimale effektiwiteit van FARMAG FENAMIPHOS 400 EC. Gebruik die laer dosis op droëlandgewasse of waar die aalwurmdruk laag is.</p>
AARTAPPELS Alle areas behalwe Noord-Kaap en Noord-Wes provinsie Aalwurm	250 mℓ/100 m plantvoor (25 ℓ/ha wanneer plantrye 1 m uitmekaar is)	Trek die plantvore. Dien die FARMAG FENAMIPHOS 400 EC toe op die algehele plantvoorarea, plant die aartappels en maak dan die plantvore toe.
	150 mℓ/100 m plantvoor (15 ℓ/ha wanneer plantrye 1 m uitmekaar is)	Gebruik die laer dosis slegs op tafelaartappels in die Oostelike Hoëveld van Mpumalanga. Gebruik slegs na 'n vierjaar wisselbou met nie-vatbare gewasse, op gronde met 'n lae infestasiedruk en op Julie-Augustus aanplantings. Dien toe soos hierbo aangedui.
AARTAPPELS Slegs Noord-Kaap	<u>Voor plant:</u> Grondberoking	Behandel grond voor plant met 'n geregistreerde berokingsmiddel.
	Gevolg deur: 250 mℓ/100 m plantvoor (25 ℓ/ha wanneer plantrye 1 m uitmekaar is)	Trek die plantvore. Dien die FARMAG FENAMIPHOS 400 EC toe op die algehele plantvoorarea, plant die aartappels en maak dan die plantvore toe.
AARTAPPELS Wes-Kaap alleenlik Aalwurm en plantluise	<u>Voor plant:</u> Grondberoking Dien 4 ℓ in 450 - 500 ℓ water/ha toe. 'n Totaal van ses (6) bespuitings is nodig.	Behandel grond voor plant met 'n geregistreerde berokingsmiddel. Dien die eerste drie bespuitings weekliks toe. Begin omtrent 7-10 dae na die opkom van die plante te spuit. Die vierde en daaropvolgende bespuitings moet elke 14 dae toegedien word. Die spuitpunte moet so gemonteer wees dat spuitstof op die plantrye gerig word om volle bedekking te verseker.

GEWAS/PLAAG	DOSIS	OPMERKINGS
UIE Aalwurm	7.5 ℓ/ha	Bol- en uitgeplante uie: Dien egalig toe op die grondoppervlak in minstens 250 ℓ water net voor plant of uitplanting en inkorporeer meganies (bv. vlak dis). Toediening kan ook gemaak word onmiddellik na plant of uitplanting. In hierdie geval moet inkorporasie onmiddellik na plant of uitplanting deur middel van oorhoofse besproeiing gedoen word.
PYNAPPELS Aalwurm	6,25 ℓ in 'n minimum van 1000 ℓ water/ha	Dien toe met grondtoerusting. Gebruik slegs op geplante gewas. 'n Totaal van drie bespuitings per oessiklus word benodig. Die eerste blaarbespuiting moet by die eerste tekens van wortelontwikkeling toegedien word. Twee daaropvolgende bespuiting word met 3-maande tussenposes toegedien. Spuitkoppe moet geranskik word om te verseker dat die spuitstof die plantrye deeglik bedek. Blom-induserende middels moet nie binne 3 maande vanaf die laaste FARMAG FENAMIPHOS 400 EC -blaarbespuiting toegedien word nie. Baie droë of nat toestande mag die behandeling nadelig beïnvloed. Geringe vergeling wat mettertyd verdwyn mag voorkom na 'n behandeling.
SITRUS Aalwurms Jong nie-draende bome Draende bome	10 ml/m ² besproeiingsbak-oppervlakte <u>Aanvanklike toediening:</u> 4 - 10 ml/m ² besproeiingsbak-oppervlakte <u>Onderhoudstoediening:</u> 5 ml/m ² besproeiingsbak-oppervlakte	Dien egalig op die grondoppervlak in die besproeiingsbak toe wanneer die bome gevestig is, en herhaal jaarliks tydens Lente. Besproei onmiddellik na toediening met minste 25 mm water. Dien egalig, tydens Lente, op die grondoppervlak in die besproeiingsbakarea toe. Besproei onmiddellik na toediening met ten minste 25 mm water. Toedieningshoeveelheid hang af van die aantal bome/ha en grootte van besproeiingsbak - sien tabel onder "Gebruiksaanwysings". NOTA: Moet nie 30 ℓ/ha of 100 ml/besproeiingsbakoppervlakte oorskry nie. Lees "Gebruiksaanwysings". Moet nie op suurlemoene en kumkwatte toedien nie. Dien die volgende seisoen tydens Lente soos hierbo aangedui toe. Herhaal daarna jaarliks.

GEWAS/PLAAG	DOSIS	OPMERKINGS
<p>TAMATIES Knopwortelaalwurm</p>	<p>Voor plant grondbehandeling: 250 ml/100 m ry in 30 cm breë band oor die ry</p>	<p>Dien 250 ml/100 m ry in 'n 30 cm breë band oor ry toe. Dien toe op land waar uitgeplant gaan word enige tyd vanaf 2 weke voor tot onmiddellik voor uitplanting. Kalibreer die toedieningsapparaat met skoon water voor toediening geskied om te bepaal hoeveel water as draer nodig sal wees om behandeling toe te pas oor die verlange afstand van die bandbehandeling. Meng die voorgeskrewe dosis in die volume water aldus bepaal. Na FARMAG FENAMIPHOS 400 EC toegedien is, moet dit onmiddelik liggies in die boonste grondlagie ingewerk word deur middel van die meganiese metodes of ingeloog word met sprinkelbesproeiing. Onder goeie toesig kan dit ook op stilstaande besproeiingswater wat in die plantebakke afgekeer is, toegedien word. Verhoed egter wegspoeling van die materiaal terwyl dit nog op die grondoppervlak lê.</p>
<p>WINGERDE Aalwurm</p>	<p>2,5 ml/m² (250 ml/2,5 l water/100 m ry as a 1 m breë band oor die ry)</p>	<p>FARMAG FENAMIPHOS 400 EC moet as 'n 50 cm breë band op albei kante van die wingerdry op die bankie van 'n onkruidvry- oppervlak, of as 'n lentetoeediening 14 dae voor verwagte bot, of as 'n herfstoeediening onmiddellik na oes toegedien word. FARMAG FENAMIPHOS 400 EC moet in die grond ingekorporeer word deur of genoegsame reën ten einde die produk in die grond in te was, of deur middel van besproeiing. As ten minste 20 mm reën nie binne 14 dae vanaf toediening geval het nie, inkorporeer dan deur te besproei teen 13 mm water gevolg deur 'n verdere 13 mm water 10 dae later. NOTA: FARMAG FENAMIPHOS 400 EC mag deur 'n behoorlik gekalibreerde mikro-besproeiingsstelsel toegedien word, mits toediening ooreenstem met gebruiksaanwysings soos uiteengesit onder "Opmerkings" hierbo.</p>
<p>PERSKES ingesluit Nektariens</p> <p>Aalwurm</p> <p>NOTA: Blaarbeskadiging mag voorkom by bome van 'n minderwaardige gehalte.</p>	<p>2,5 ml/m² in 2 l water</p>	<p>Dien binne 6 weke na vestiging van die jong bome in die Lente en weer in die daaropvolgende Maart – April toe (na-oes) toe. Herhaal hierdie twee toedienings in die tweede jaar. Dien die mengsel toe op 'n area van 1 m² om elke boom toe. Hierna, dien 'n behandeling elke jaar na oes toe indien nodig. Dien toe teen 2,5 ml/m² in die druparea. In gevalle waar bome 2 meter of nader aan mekaar in die ry geplant is, kan die mengsel aaneenlopend op 'n 1 meter druparea oor die ry bome toegedien word. Die grond moet kiam, kaal en vry van onkruid wees. Inkorporeer na toediening deur te besproei met ten minste 13 mm water opgevolg deur 'n verdere 13 mm water 10 dae later.</p>



FARMAG

FENAMIPHOS 400 EC

Reg. No. / Nr L10720 Act No. 36 of 1947/ Wet Nr 36 van 1947

INSECTICIDE

**READ THE LABEL AND ATTACHED PACKAGED LEAFLET BEFORE USE
KEEP OUT OF REACH OF CHILDREN AND ANIMALS**

IRAC INSECTICIDE GROUP CODE**1B****INSEKODERGROEPPKODE**

A systemic soil applied emulsifiable concentrate for the control of nematodes on potatoes, citrus, pineapples, grapes, peaches, nectarines, groundnuts, onions and tobacco and a leaf treatment on potatoes for the control of nematodes and aphids only in the Western Cape.

in Sisteemiese grondtoegediende emulgeerbare konsentraat vir die beheer van aalwurms in aartappels, sitrus, nektariens, perskes, pynappels, wingerde, grondbone, uie en tabak en as 'n blaarbespuiting op aartappels vir die beheer van aalwurms en plantluise slegs in die Wes-Kaap.

ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL:

Fenamiphos (organophosphate).....400 g/l.....Fenamifos (organofosfaat)

**DANGER****Hazard Statements:**

Flammable liquid and vapour.
Fatal if swallowed, in contact with skin.
Causes serious eye damage.
May cause damage to organs (Pulmonary edema) through prolonged or repeated exposure (Inhalation).
Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
Do not breathe vapours/spray.
IF SWALLOWED: Immediately call a poison centre or doctor.
IF ON SKIN: Wash with plenty of soap and water. Take off immediately all contaminated clothing.
IF IN EYES: Rinse cautiously with water for several minutes.
Immediately call a poison centre or doctor.
In case of fire: Use carbon dioxide (CO₂), dry extinguishing powder to extinguish.

Batch No:

D.O.M:

D.O.E:

Net Mass:

See reverse of packaging for details.

FOR FULL PARTICULARS SEE ATTACHED PAMPHLET.
VIR VOLLEDIGE BESONDERHEDE KYK AANGEHEGTE ETIKET.

UN No. / VR Nr: 2903



REGISTRATION HOLDER/ REGISTRASIEHOUER

Farm Ag International (Pty) Ltd
Reg. Nr: Reg. No. 2005/011761/07
61 Marshall Drive, Old Mill Industrial Park,
Mount Edgecombe, South Africa, 4300
Tel: 031 003 3486

Poison Information Helpline (24 hrs): 0861 555 777

**BARCODE**

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