



FYFANON™ 50 EC

Insecticide

INSECTICIDE GROUP CODE 1B

COMMERCIAL AND AGRICULTURAL CLASS (KUNDI LA BIASHARA NA KILIMO)
REGISTRATION NO. (NAMBARI YA USAJILI): PCPB (CR) 0368

GUARANTEE (DHAMANA): Malathion 500g/ℓ

Manufacturer/ Watengenezaji:

Cheminova A/S, P.O. Box 9,
 DK-7620 Lemvig, Denmark

Shelf Life: 2 years from the date of manufacture if the product is stored in unopened original container in a dry, cool place

Maisha rafuni: Miaka miwili baada ya tarehe ya kutengenezwa iwapo dawa hii itahifadhiwa kwa chombo chake asili bila kufunguliwa iwe mahali pakavu na pasipo na joto

NET CONTENT (KIASI) **1L e**



Distributed /(Wasambazaji):
 Elgon Kenya Limited
 P.O. Box 46826, Code 00100,Nairobi

Agent/ Ajenti:
 FMC Kenya Branch
 P.O.BOX 25459-00100, Nairobi, Kenya
 Tel: +254 20 5154241/2
 www.fmc.com

®Trademark of (Alama ya biashara ya kampuni ya)
 Cheminova Agro A/S

MEMBER OF AGROCHEMICALS
 ASSOCIATION OF KENYA
 REGISTRATION NUMBER 102

Emergency number/Simu ya dharura: In case of poisoning call toll free number / piga simu ya kusumika bila malipo kwa number 0800720021/0800730030

READ THE PRODUCT LABEL BEFORE USE (SOMA KIBANDIKO KABLA YA KUTUMIA)

KEEP LOCKED OUT OF REACH OF CHILDREN (WEKA MBALI NA WATOTO)



5 703265 570237 >

YYYYYYY,XXXXXXXX,KENYA



HARMFUL (INADHURU)



Registered by /Wasajili:
 FMC Chemicals (Pty) Ltd
 Post Box 44, Postnet Menlyn
 Waterkloof Glen, 0181

Batch No: See print on packaging(Nambari ya furushi)

Date of Manufacture: See print on packaging (Tarehe ya kutengenezwa)

	FILL IN		DIMENSIONS (WXH)
Country	Kenya	Single label	x
Product SKU	yyyyyyy	Base for Booklet	x
Product SKU Description	FYFANON,500EC,12x1L,E,0#KENYA	Booklet	244 x 130 mm
Label SKU	xxxxxx	Number of pages (Booklet)	4 pages
Label SKU Description	E,FYFANON,500EC,1L,E,0#KE,M/F	Carton label	x
Label SKU (earlier version(s))	x	Preprinted Material	x

P 032C P 7412C CYAN MAGENTA YELLOW BLACK



DESCRIPTION:

Contact insecticide for the control of sucking and chewing insects i.e Army worm, Locusts, Grass hoppers on field crop, fruits and vegetables. Fyfanon 50% EC contains 500g/L malathion a.i of ormlated product and belongs to Organophosphorous compound with EC formulation

WARNINGS:

DO NOT HARVEST THE CROP OR FEED PLANT MATERIAL TO ANIMALS BEFORE THE FOLLOWING MINIMUM INTERVAL HAS ELAPSED AFTER THE LAST APPLICATION.

Crop	Minimum Number of Days
Tomatoes	1
Peppers	3
Beans, citrus, cruciferae, cucurbits, granadillas	7
Peaches, plums, apricots, apples, pears, guavas	10

NOTE: Compliance with these withholding periods will ensure that residues do not exceed local Maximum Residue Limits, but the import tolerances of other countries might possibly be exceeded. If the crop to be treated is intended for export, consult the relevant importer or exporting body regarding the use of this product, the Maximum Residue Limits and recommended withholding periods.

- Handle with care
- Toxic to fish and bees
- Store in a cool, dry place away from food and feed.
- Keep out of reach of children, uninformed persons and animals.
- **Re-entry:** do not enter treated orchards within 24 hours of spraying without wearing protective clothing.

AERIAL APPLICATION:

Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate water or adjacent areas.

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 climatic and storage conditions; quality of dilution water; compatibility with other substances not indicated on the label and the occurrence of resistance of insects 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.

MIXING INSTRUCTIONS: pH of the spray water

- The efficacy of Fyfanon™ 50 EC may be adversely affected by water high in solutes (hard water > 1000 ppm) and a high pH value. Optimal efficacy is achieved in water of pH 4,5 - 5,5. If the spray water is outside that range it should be buffered to that level with a suitable registered buffering agent that is added to the spray tank before adding the Fyfanon™ 50 EC .
- Use the spray mixture without delay and do not allow to stand for prolonged periods.

APPLICATION:

Ensure that application equipment is fully operational and correctly calibrated before commencing with the spray programme.

Calculate the quantity of spray mixture needed to wet the trees thoroughly at full leaf cover by using the Tree Row Volume (TRV) formula - Water requirement ℓ/ha = Tree height x tree diameter x 937 Row width The TRV is the water volume required when the trees are in full leaf. Adjust the volume to be applied according to the growth stage of the orchard according to the following table:-

Growth stage (GS)	% of the High Volume water requirement depending on GS
Greentip to 30% blossom	60%
Full blossom to middle November	80%
Start December	100%

Use the water volume required per hectare to calculate the amount of NOVATION required in the spray mixture then apply the mixture as a full cover High Volume (1,500 - 3,000 ℓ/ha) spray and ensure thorough coverage of the total tree including the top part.

AERIAL APPLICATION:

Precautions: Aerial application of Fyfanon™ 50EC may only be done by a registered aerial application operator using a correctly calibrated, registered aircraft according to the instructions of SANS 10118 (Aerial Application of Agricultural Remedies). It is important to ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria are met:

a) Application parameters:

- **Volume:** A volume of 30ℓ of spray mixture/ha is recommended. of Fyfanon™ 50EC has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy or be held responsible for any adverse effects if the product is applied aerially at a lower volume rate than recommended above.
- **Droplet coverage:** A droplet coverage of 30 - 40 droplets per cm2 must be recovered at the target.
- **Droplet size:** A droplet spectrum with a VMD of 250 - 380 microns is recommended. Ensure that the production of fine droplets (less than 150 microns - high drift & evaporation potential) is restricted to a minimum.
- **Flying height:** The height of the spray boom should be maintained at 3 - 4 metres above the target. Do not spray when the aircraft is in a climb, at the top of or during a dive or when banking.
- **Apply before the crop growth becomes too dense,** which will interfere with overall plant coverage.

b) Equipment:

Use suitable atomising equipment (hydraulic nozzles or rotary atomisers) that will produce the desired droplet size and coverage but which will ensure the minimum loss of product through drift (within or outside the target field). The operator must use a setup that will produce a droplet spectrum with the lowest possible relative span. All nozzles / atomisers should be positioned within the inner 75% of the wingspan to prevent droplets from entering the wingtip vortices.

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c) Meteorological conditions:

The difference in temperature between the wet and dry bulb thermometers of a whirling hygrometer should not exceed 8°C. Stop spraying if the wind speed exceeds 15 km/h.

Aerial application of **FYFANON™ 50EC** must not be done under turbulent or unstable conditions during the heat of the day when rising thermals and downdraughts occur. Also note that the application of this product under temperature inversion conditions (spraying in or above the inversion layer) may lead to:

- reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage)
- damage to other sensitive crops and/or non-target areas through the movement of the suspended spray cloud away from the target field.

d) General

- Ensure that fields are accurately marked and that the aerial spray operator knows exactly which fields to spray.
- Obtain an assurance from the aerial spray operator that the above requirements will be met.

COMPATIBILITY:

This product will be incompatible with alkaline based products

RECOMMENDATIONS:

CROP / DISEASE	DOSAGE / 100 ℓ Water	REMARKS
CITRUS Red Scale (<i>Aonidiella aurantii</i>)	340 ml	Use for light infestation. Apply at 80-100 % petal drop as a full cover spray. Spray mature trees once and if necessary, usually in the case of young trees, apply a second application 6-8 weeks later.
CITRUS Aphid (<i>Toxoptera citricida</i>)	340 ml	Apply as a high volume full cover spray to new growth when aphids appear.
CITRUS Mealy bug (<i>Planococcus citri</i>)	340 ml	Apply as a high volume full cover spray when the pest appears. Repeat the application 2-3 weeks later
NOTE: Will also control Soft brown scale, Mussel scale, Thrips and Australian bug if present.		

CITRUS Fruit fly (<i>Ceratitis capitata</i>)	200 ml + 8kg sugar or 500 ml protein hydrolysate	Apply the bait as a coarse droplet spray in 200-300 liters spray mixture/ha. Treat every row or tree on at least one side. Repeat applications on a weekly basis and after rain. Protein hydrolysate: To ensure optimum attraction of fruit flies, the rate is based on a minimum of 800-1000 ml protein-based product/ha.
BEANS	140 ml	Apply as a full cover spray
Aphids	200 ml	Apply as a full cover spray. Repeat after 10-14 days.
TOMATOES	140 ml	Apply as a full cover spray when pest is noticed and repeat application if necessary.
Aphids	200 ml	Apply as a full cover spray when required.
APPLES & PEARS	140 ml	Apply as a full cover spray when pest appears
Aphids, Bryobia mite Woolly aphid	140 ml	Apply as a full cover spray and repeat when necessary. It is recommended that no more than 3 sprays are applied in a season.
Mealy bugs		
STONE FRUIT	140 ml	Apply as a full cover spray
Aphids	140 ml	Apply as a full cover spray when pest appears
Bryobia mite		Apply as a full cover spray. Repeat 2-3 times at 2-3 week intervals. It is recommended that no more than 3 sprays are applied in a season.
Mealy bug	140 ml	
CRUCIFERAE	280 ml	Apply as a full cover spray when an infestation occurs. Ensure that the undersides of leaves are covered by the spray. Repeat when necessary. This treatment will also control aphids.
Diamond Back Moth and Greater cabbage moth caterpillars		
CUCURBITS	140 ml	Apply when required and ensure that the undersides of leaves are wetted. Do not apply when the plant surfaces are wet.
Ladybirds		Bait treatment: Apply when the first flowers appear as a coarse droplet spray in 35-40 ℓ spray mixture /ha and continue until fruit matures. On small plots repeat sprays twice a week and on larger plots repeat weekly. Repeat sprays after rain.
Pumpkin flies	200 ml + 8kg sugar	

GRANADILLAS	200 ml + 8 kg sugar	Apply as a coarse droplet spray twice a week.
Pumpkin flies	200 ml	Apply when the pest appears
Thrips		
Red scale, Circular purple scale, Soft scale, White scale	280 ml	Apply as a full cover spray as necessary
GUAVAS	280 ml	Apply as a full cover spray when the pest occurs.
Scale		

Hazards and handling precautions

Wear protective clothing when mixing. Do not inhale. Avoid contact with skin, eyes and clothing. Do not smoke, drink or eat while handling the product. Wear rubber gloves and a face shield or suitable mask and goggles when handling the product.

In the case of accidental contact with eyes and skin, flush the eyes out at once and wash it off the skin at once. If spilt on clothes, change and wash them. Wash with soap and water after use or accidental skin contact.

After work:

Wash gloves before removal. Change clothes and thoroughly wash yourself. Carefully wash the spraying equipment and personal protective clothing.

Storage:

FYFANON™ 50EC must be kept in its original, sealed labelled container in a cool, dry and ventilated place under lock and key away from food stuffs, beverages, animal feed and packaging materials used for these commodities. Store out of reach of children and unauthorized people. Storage temperature between 5°C and 30°C, protect from frost and extreme heat.

Disposal:

Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Triple rinse empty containers and make them unusable by puncturing and dispose them in licensed incineration or authorized place. Do not reuse them for any other purpose. Unwanted **FYFANON™ 50EC** or rinsate that cannot be used must be disposed of where it cannot contaminate water in accordance with National regulations and legislation

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Spill, Leak and Disposal Procedures:

Stop the spills immediately if it is safe to do so. Cover the spill with an absorbent material (sand, sawdust, soil, hydrated lime, universal binder or fullers earth). Sweep up the material and shovel into closable approved chemical waste container. Rinse the spill area with soda lye or water containing strong detergent. Absorb wash liquid with absorbent and place in the chemical waste container. Wash waters must be prevented from entering surface water drains. Seal container and dispose of in an approved manner. Avoid spray drift onto other crops, grazing, rivers or dams or areas not under treatment. Clean applicator thoroughly after use and dispose of wash water where it will not contaminate crops, grazing, rivers or dams.

Symptoms of Poisoning:

Some of the signs and symptoms of poisoning are: headache, nausea, vomiting, cramps, weakness, blurred vision, pin-point pupils, tightness in chest, laboured breathing, nervousness, sweating, watering of eyes, drooling or frothing of mouth and nose, muscle spasms and coma.

FIRST AID INSTRUCTIONS:

If swallowed: If the exposed person is conscious make him or her vomit quickly. Have the exposed drink 1 or 2 glasses of water and induce vomiting by touching the back of the throat with a finger. Never give anything by mouth to an unconscious person. Make the exposed lie down and keep him/her steady. Get medical attention immediately.

Eye contact: Immediately hold eyelids open and flush with plenty of water for at least 15 minutes. Get medical attention immediately.

Inhalation: Remove the patient to fresh air. All contaminated clothing should be removed immediately. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention immediately.

Skin contact: Remove contaminated clothing immediately and wash thoroughly with soap and water. If irritation persists, seek medical attention.

TOXICOLOGICAL INFORMATION:

Note to Physician:

FYFANON™ 50EC is a cholinesterase inhibitor. It rapidly enters the body on contact with all skin surfaces and eyes. Clothing contaminated with FYFANON™ 50EC must be removed immediately and all skin washed thoroughly.

Antidote:

Administer atropine in large doses. TWO to FOUR mg intravenously or intramuscularly as soon as cyanosis is overcome. Repeat 5 to 10 minute intervals until signs of atropinisation appear. 2-PAM chloride is a pharmacological antidote and may be administered as an adjunct to, but not a substitute for, atropine, which is a symptomatic, and often lifesaving antidote. DO NOT GIVE MORPHINE OR TRANQUILLIZERS. FYFANON™ 50EC is a cholinesterase inhibitor affecting the central and peripheral nervous systems and producing cardiac and respiratory depression. At first sign of pulmonary oedema, the patient should be given supplemental oxygen and treated symptomatically. Continued absorption of the poison may occur and relapse has been reported after initial improvement

NOTICE TO USER:

This Pest Control Product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use or store pest control product under unsafe conditions.

SELLERS GUARANTEE (WARRANTY):

Seller's guarantee is limited to the terms set out on the label and subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

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