



Margaret Roberts Kirchhoffs organic insecticide

Reg No. L7149 Act 36/1947

An organic broadspectrum insecticide concentrate with contact and repelling action used as a full cover spray for the control of insects as listed on herbs, fruit trees, vegetables, roses and ornamentals.

ACTIVE INGREDIENTS

Garlic juice extract from *Allium sativa* 478,0 g/l
Canola oil 478,0 g/l

Registration holder:

BaïlStraathof (PTY) LTD

Reg. No. 2000/029724/07, P.O. Box 3691, Honeydew, 2040, South Africa. Tel: (011) 794 2316

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; compatibility with other substances not indicated on the label and the appearance 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 or registration holder in the event of any uncertainty.

PRECAUTIONS
Garlic kills targeted insects on contact. Garlic prevents insects from landing on plants, but takes a while for the odour to disappear from other surfaces. Indoor use not recommended. Garlic becomes odourless on plants, but takes a while for the odour to be necessary. Suitable for spraying over surfaces like carpets, tiles etc. Cover surfaces with newspaper if spraying of plants in containers are necessary. Do not inhale spray mist. Avoid contact with eyes. Do not eat, drink or smoke while mixing or before washing hands. If skin or eye contact occurs, flush with copious amounts of clean water. Prevent drift of spray to other crops, water supplies, dams or rivers. Keep container tightly closed when not in use. Wash with soap and water after use. Add the rinsings to the contents of the spray tank. Destroy empty container and do not use for any other purpose. Prevent contamination of food, feeds, drinking water and eating utensils. Not recommended for cut flower production - it might be phytotoxic.

DIRECTIONS FOR USE: Use only as indicated

COMPATIBILITY
Before using in combination with any pesticide, first test on a small scale. In case of any uncertainties, contact the registration holder or supplier.

CROP AND INSECT	DOSE PER 10 L WATER	DETAILS OF SPRAY PROGRAMME
FRUIT and VEGETABLES Aphids Red spider mite Whitefly	150 ml - 200 ml	Apply as a high pressure, full cover spray when first sign of pests are detected. Ensure thorough coverage of plants to be protected. Use lower rate on young plants and higher dosage rate when insect pressure is high, and plants more mature. Repeat applications at 5 day intervals with a maximum of 3 within a period of 10 days. In the case of whitefly, apply early morning after sunrise when adult whiteflies are still resting under leaves. Three applications within 10 days are necessary to obtain positive results in the control of whitefly. Ensure thorough coverage of the underside of leaves in the case of whitefly and red spider mite control.
HERBS Aphids; Red spider mite; Whitefly	150 ml - 200 ml	Apply as a high pressure, full cover spray when first sign of pests are detected. Ensure thorough coverage of plants to be protected. Use lower rate on young plants and higher dosage rate when insect pressure is high, and plants more mature. Repeat applications at 5 day intervals with a maximum of 3 within a period of 10 days. In the case of whitefly, apply early morning after sunrise when adult whiteflies are still resting under leaves. Three applications within 10 days are necessary to obtain positive results in the control of whitefly. Ensure thorough coverage of the underside of leaves in the case of whitefly and red spider mite control.
ORNAMENTALS Aphids Red spider mite Whitefly	150 ml - 200 ml	Apply as a high pressure, full cover spray when first sign of pests are detected. Ensure thorough coverage of plants to be protected. Use lower rate on young plants and higher dosage rate when insect pressure is high, and plants more mature. Repeat applications at 5 day intervals with a maximum of 3 within a period of 10 days. In the case of whitefly, apply early morning after sunrise when adult whiteflies are still resting under leaves. Three applications within 10 days are necessary to obtain positive results in the control of whitefly. Ensure thorough coverage of the underside of leaves in the case of whitefly and red spider mite control.
ROSES Aphids Red spider mite	150 ml	Apply as a high pressure, full cover spray when first sign of pests are detected. Ensure thorough coverage of plants to be protected. Repeat applications at 5 day intervals with a maximum of 3 within a period of 10 days. In the case of whitefly, apply early morning after sunrise when adult whiteflies are still resting under leaves. Three applications within 10 days are necessary to obtain positive results in the control of whitefly. Ensure thorough coverage of the underside of leaves in the case of whitefly and red spider mite control.

EFFECTIVE FOR KILLING AND REPELLING INSECTS

Repeated applications not recommended for use on cut flower varieties in tunnels. One to two applications within 7 days carry a low risk of phytotoxicity symptoms.

Insecticide formulations containing natural oils can cause slight shrivelling of soft leaf and flower growth and light chlorotic spots on mature leaves after repeated applications at short intervals. Normally, excess wetting of leaves lead to possible phytotoxicity reactions (chlorosis, necrosis, wilting etc.), as is the case with applying many pesticides. Do not use on very sensitive plants like Maidenhair ferns. Do not apply just prior to or during pollination, garlic might repel bees and, therefore, adversely affects pollination.

Use the spray mixture without delay and do not allow to stand for prolonged periods, e.g. overnight. If rain occurs within 12 hours after application, treatment has to be repeated for best results. DO NOT APPLY DURING THE HEAT OF THE DAY OR WHEN TEMPERATURES EXCEED 28°C. APPLY PREFERABLY EARLY MORNING BEFORE 9 AM OR EARLY EVENING AFTER 5 PM DURING THE HOT MONTHS .

MIXING INSTRUCTIONS

SHAKE OR STIR CONTAINER WELL BEFORE USE. Mix measured quantity of Margaret Roberts Organic Insecticide concentrate first with an equal amount of water. Fill tank of applicator with half of the desired volume water. Add the required amount of Margaret Roberts Organic Insecticide to the spray tank while it is filled with water to the desired quantity. After mixing concentrate, agitate again before and during spraying to prevent settling

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Reg. nr. L7149 Wet 36/1947

'n Organiese breëspektrum konsentraat insekdoder met kontak dodende en afwerende aksie, toegedien as 'n volle dekbespuiting vir die beheer van insekte soos gelys op kruie, vrugtebome, groente, rose en sierplante.

AKTIEWE BESTANDDELE

Knoffel sap ekstrak van *Allium sativa* 478,0 g/l
Kanola olie 478,0 g/l

Registrasiehouer:

BaïlStraathof (EDMS) BPK

Reg. nr 2000/029724/07, Posbus 3691, Honeydew, 2040, Suid Afrika. Tel: (011) 794 2316

LAAT 'N WAGPERIODE VAN 24 UUR TUSSEN DIE LAASTE TOEDIENING EN OES VAN EETBARE GEWASSE

WAARSKUWINGS

Hanteer versigtig.
Mag vel- en oogirritasie veroorsaak.
Hou buite bereik van kinders, oningeligte persone en diere.
Bêre weg van voedsel en voere in 'n koel en droë plek.
Nie geskik vir kook doeleindes nie.

Alhoewel hierdie middel omvattend onder 'n verskeidenheid toestande getoets is, waarborg die registrasiehouer nie dat dit onder alle toestande doeltreffend sal wees nie, aangesien die werking en effek daarvan beïnvloed kan word deur faktore soos abnormale klimaats- en bergingstoestande; verenigbaarheid met ander stowwe wat nie op die etiket aangedui is nie en die voorkoms van weerstand van die plaag teen die betrokke middel sowel as 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 'n 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 of registrasiehouer in die geval van enige onsekerheid.

VOORSORGMATREËLS

Kanola olie dood insekte op kontak. Knoffel voorkom dat insekte op plante land. Geen skadelike residue word nagelaat nie. Nie geskik vir toediening oor mat en teel oppervlakte nie. Bedek oppervlakte met koerant papier indien gespuit word in areas waar die oppervlakte voorkom (bv. houerplante op geteelde stoepe). Word nie aanbeveel vir binnenshuise gebruik a.g.v. knoffel reuk. Knoffel word reukloos op plante, maar reuk bly vir 'n geruime tyd op ander oppervlakte.

Moenie spuitmis inasem nie. Vermoë kontak met oë.
Indien vel of oogkontak voorkom, spoel met voldoende hoeveelheid skoon water.
Moenie eet, drink of rook terwyl gemeng word of voordat hande gewas is nie.
Hoe houder dig toe wanneer nie in gebruik.
Vermoë oormatige inaseming van spuitnewel.
Was met seep en water na gebruik.
Vermoë oorwaai van spuitnewel na ander gewasse, waterbronne, damme en riviere.
Spoel leë houder drie keer uit met 'n volume water gelykstaande aan 'n minimum van 10% van die houder. Gooi die spoelwater by die inhoud van die spuittenk voordat die houder vernietig word. Vernietig leë houder en moet vir geen ander doel gebruik nie.
Voorkom besoedeling van voedsel, voer, drinkwater en eetgerei.
Nie aanbeveel vir gebruik op snyblomme nie—mag fitotoksies wees.

GEBRUIKSAANWYSINGS: Gebruik slegs soos aangedui

VERENIGBAARHEID

Voor die gebruik in kombinasie met ander plaagmiddels, toets eers op 'n klein skaal. In die geval van enige onsekerheid, kontak die registrasiehouer of verspreider.

EFFEKTIEF VIR DIE DOOD EN AFWEER VAN INSEKTE

GEWAS & INSEK	DOSE HOEWELHEID PER 10 L WATER	BESONDERHEDE VAN SPUITPROGRAM
GROENTE en VRUGTE Plantluis Rooispinnmyt Witvlieg	150 ml - 200 ml	Dien toe as 'n volle dekbespuiting sodra insek besmettings opgemerk word. Verseker deeglike bedekking van plante wat beskerm moet word. Gebruik laer dosis op jong plante en hoër dosis wanneer insek besmettingsdruk hoog is, en plante meer volwasse. Herhaal toedienings elke 5 dae met 'n maksimum van 3 binne 'n periode van 10 dae. In die geval van witvlieg, dien toe vroegoggend na sonsopkoms wanneer volwasse witvlieg nog rustend onder die blare is. Vir positiewe resultate in die beheer van witvlieg word 3 bespuitings benodig binne 10 dae. Verseker deeglike dekking van die onderkant van blare in die geval van witvlieg en roospinnmyt beheer.
KRUIE Plantluis Rooispinnmyt Witvlieg	150 ml - 200 ml	Dien toe as 'n volle dekbespuiting sodra insek besmettings opgemerk word. Verseker deeglike bedekking van plante wat beskerm moet word. Gebruik laer dosis op jong plante en hoër dosis wanneer insek besmettingsdruk hoog is, en plante meer volwasse. Herhaal toedienings elke 5 dae met 'n maksimum van 3 binne 'n periode van 10 dae. In die geval van witvlieg, dien toe vroegoggend na sonsopkoms wanneer volwasse witvlieg nog rustend onder die blare is. Vir positiewe resultate in die beheer van witvlieg word 3 bespuitings benodig binne 10 dae. Verseker deeglike dekking van die onderkant van blare in die geval van witvlieg en roospinnmyt beheer.
ROSE Plantluis Rooispinnmyt	150 ml	Dien toe as 'n volle dekbespuiting sodra insek besmettings opgemerk word. Verseker deeglike bedekking van plante wat beskerm moet word. Herhaal toedienings elke 5 dae met 'n maksimum van 3 binne 'n periode van 10 dae. Verseker deeglike dekking van die onderkant van blare in die geval van roospinnmyt beheer.
SIERPLANTE Plantluis Rooispinnmyt Witvlieg	150 ml - 200 ml	Dien toe as 'n volle dekbespuiting sodra insek besmettings opgemerk word. Verseker deeglike bedekking van plante wat beskerm moet word. Gebruik laer dosis op jong plante en hoër dosis wanneer insek besmettingsdruk hoog is, en plante meer volwasse. Herhaal toedienings elke 5 dae met 'n maksimum van 3 binne 'n periode van 10 dae. In die geval van witvlieg, dien toe vroegoggend na sonsopkoms wanneer volwasse witvlieg nog rustend onder die blare is. Vir positiewe resultate in die beheer van witvlieg word 3 bespuitings benodig binne 10 dae. Verseker deeglike dekking van die onderkant van blare in die geval van witvlieg en roospinnmyt beheer.