

Main Panel
For further information see attached pamphlet
Vir verdere inligting sien aangehegte pamflet

Read the label carefully before opening

GRAB 500 EC

Botswana: Reg. No. W130316, Act No. 18 of 1999

AN EMULSIFIABLE CONCENTRATE INSECTICIDE WITH CONTACT AND SYSTEMIC ACTION FOR USE ON PESTS AND CROPS AS LISTED.

'N EMULGEERBARE KONSENTRAAT INSEKDODER MET KONTAK EN SISTEMIESE WERKING VIR GEBRUIK OP PLAE EN GEWASSE SOOS AANGEDUI.

INSECTICIDE GROUP CODE 1B INSEKDODERGROEPKODE

Active ingredient / Aktiewe bestanddeel:

Fenthion (Organophosphate) 500 g/l..... Fention (Organofosfaat)

Net Volume



Netto Volume



REGISTRATION HOLDER / REGISTRASIEHOUER:

Nulandis® (A division of AECI Limited) / Nulandis® ('n Afdeling van AECI Beperk)

Reg. No. / Nr. 1924/002590/06

P.O. Box / Posbus 14418

Witfield, 1467

Tel : (011) 823 8000

www.nulandis.com

IN CASE OF POISONING PLEASE PHONE / IN GEVAL VAN VERGIFTIGING SKAKEL 0861555777
0824468946

Batch No:

Lotnommer:

Date of Manufacture:

Datum van Vervaardiging:

UN Number: 3018 – Organophosphorus pesticide, liquid, toxic,



**HARMFUL
SKADELIK**



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HARMFUL

WARNINGS:

DO NOT APPLY LATER THAN 10 DAYS PRIOR TO HARVESTING OF CUCURBITS AND ALL FRUIT CROPS.

NOTE: The recommended withholding period between last application and harvesting 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.

Handle with care.

Poisonous when inhaled, swallowed or by skin and eye contact.

Toxic to aquatic organisms, bees and wildlife.

Store in a cool, dry place away from food and feedstuffs.

Keep out of reach of children, uninformed persons and animals.

Re-entry – Do not enter treated area within one day after treatment unless wearing protective clothing.

In case of poisoning - **CALL A DOCTOR IMMEDIATELY AND MAKE THIS 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, COMPATIBILITY WITH OTHER SUBSTANCES NOT INDICATED ON THE LABEL AND THE OCCURRENCE OF RESISTANCE OF THE PESTS TO 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:

Do not inhale fumes or spray mist.

Wear suitable protective clothing (rubber gloves and boots and face shield when handling concentrate) and wash contaminated clothing immediately after use.

Wash thoroughly with soap and water immediately after use or accidental contact.

In case of eye contact, flush with clean water for at least 15 minutes.

Do not eat, drink or smoke whilst mixing or applying or before washing hands and face and changing clothes.

Prevent contamination of food, feed, drinking water and eating utensils.

Prevent spray drift onto other crops, grazing or any other areas not under treatment as this will cause serious crop damage.

Clean applicator thoroughly before re-using and dispose of wash water where it will not contaminate crops, grazing, rivers and dams.

When empty, invert the empty container over the spray or mixing tank and allow it to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of 10% of that of the container. Add the rinsings to the contents of the spray tank and destroy the container by perforation and flattening and do not use for any other purpose.

SYMPTOMS OF HUMAN POISONING:

Headache, fatigue, faintness, dizziness, 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, convulsion, coma.

FIRST AID TREATMENT:

Inhaled: Remove patient from source of poisoning to a well-ventilated area and keep him quiet and reassured. If breathing is difficult, give oxygen. Get medical attention immediately.

Skin contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before re-use. Thoroughly clean shoes before re-use. Get medical attention immediately. If advised by doctor, atropine tablets may be administered.

Eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

Ingested: DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

NOTE TO PHYSICIAN:

RESISTANCE WARNING:

GRAB 500 EC is a Group Code 1B insecticide. Any insect population may contain individuals naturally resistant to **GRAB 500 EC** and other Group Code 1B insecticide. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **GRAB 500 EC** or any other Group Code 1B insecticide.

To delay insecticide resistance:

- Avoid exclusive repeated use of insecticides from the same insecticide Group Codes. 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.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

For effective fruit fly control, trees and especially the fruit must be thoroughly wetted with spray mixture. Infestations of fruit fly that have been established can be controlled and further spreading can be prevented since **GRAB 500 EC** kills the maggots in the fruit. Orchard sanitation is very important in the control of weevil and fruit fly. Fruit that has fallen off, rotten fruit and seeds must be collected as from November until harvesting is completed. Destroy it by means of burying at least 600 mm deep, immersing in water and in old oil drums or by putting it through a hammer mill. The efficacy of **GRAB 500 EC** on fruit fly on peaches, apricots and plums may be impeded if spray volumes of less than 3 400 ℓ / ha are used.

APPLICATION TABLE:

CROP	PEST	DOSAGE RATE / 100 ℓ WATER	METHOD OF APPLICATION
APPLES, PEARS, PEACHES	Bryobia mite	100 mℓ	Apply as soon as infestation is noticed. Repeat if necessary. Do not use on Doyenne du Comice, Josephine de Malines and Kieffer pear cultivars.
APPLES AND PEARS	Codling moth	50 mℓ	Apply as a full cover spray. Commence applications at 75 % petal fall. Repeat application every 2 – 3 weeks. Do NOT use on Doyenne du Comice or Josephine de Malines pear cultivars.
	Fruit flies	50 mℓ	Apply 10 – 14 days before commencement of picking of late apple and pear varieties, in areas where fruit fly breed in earlier fruits in close proximity to these orchards. When harvesting is extended over a long period, it may be advisable to apply a second spray 3 – 4 weeks after the first application, but not within 10 days of picking. Sprays applied for the control of fruit fly will simultaneously provide control for codling moth.
APRICOTS	Codling moth	100 mℓ	Apply as a full cover spray 3 – 4 weeks after petal drop and repeat application 2 – 3 weeks later in the case of severe infection.
COFFEE	Antestia	75 mℓ	Apply as a full cover spray before peak flowering stage and repeat 14 days later.
CUCURBITS (Cucumbers, Gem squash, Pumpkins, etc.)	Pumpkin Fly	120 mℓ	Apply full cover sprays in a programme from flowering onwards at 2-3 week intervals. Ensure thorough wetting of the fruit. The addition of a registered adjuvant is recommended. Apply at first sign of infestation. Repeat if necessary.
	Aphids	100 mℓ	
GUAVAS	Fruit flies	100 mℓ	Apply the first application 4 weeks prior to harvest. Repeat application 10 days before harvest. In areas with warm winter periods and where fruit fly activity occurs, fruit should be picked thoroughly and trees sprayed thoroughly. Follow up with a spray 3-4 weeks later.
MANGOES	Fruit Flies	100 mℓ	Apply two full cover sprays at 20 days and 10 days before harvest. The use of a registered adjuvant is recommended to improve spray coverage.
	Weevils	100 mℓ	Apply as a cover spray, directed at the fruit when egg laying has taken place during late October to early November. Repeat after 14 days under heavy infestation pressure.
STONE FRUIT (Apricots, Peaches, Plums).	Fruit flies	75 mℓ	Single application: Apply in areas where late infestations occur as a full cover spray 10 days before harvest. Double application: Apply as a full cover spray in areas where early infestations occur, or in early maturing cultivars, 21 days and again 10 days prior to harvest. NOTE: Do not apply to Pucelle de Malines peaches and Alpha apricots.

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INSEKDODERGROEPKODE 1B

AKTIEWE BESTANDDEEL:

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SKADELIK

WAARSKUWINGS:

MOENIE BINNE 10 DAE VÓÓR OES VAN PAMPOENGWASSE EN ANDER GEWASSE TOEDIEN NIE.

LET WEL: Die voorgestelde onthoudingsperiode tussen laaste toediening en oes voldoen aan plaaslike residu vereistes, maar mag dalk nie aan uitvoer residu-vlakke voldoen nie. Indien die gewas behandel bestem is vir uitvoer, raadpleeg die betrokke invoer- of uitvoerorganisasie vir inligting rakende die gebruik van die produk, die maksimum residuvlakke en die aanbevole onthoudingsperiodes.

Hanteer produk versigtig.

Skadelik wanneer ingesluk, ingeasem of deur die vel geabsorbeer word.

Giftig vir bye, waterorganismes en wildlewe.

Stoor in 'n koel plek weg van voedsel en voer.

Hou buite bereik van kinders, oningeligte persone en diere.

Herbetreding: Moenie die behandelde gebied binne 1 dag betree voordat spuitneerslag droog is nie, tensy beskermende oorklere gedra word nie. Ingeval van vergiftiging **ONTBIED ONMIDDELLIK 'n GENEESHEER EN TOON HIERDIE ETIKET AAN HOM.**

ALHOEWEL HIERDIE MIDDEL OMVATTEND ONDER 'N GROOT 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 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 SOWEL AS DIE METODE, TYD EN AKKURAAKHEID 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 IN DIE GEVAL VAN ENIGE ONSEKERHEID.

VOORSORGMATREËLS:

Moenie die dampe of sproeinewel inasem nie.

Dra geskikte beskermende klere (rubberhandskoene- en stewels en gesigskerm wanneer konsentraat hanteer word) en was besoedelde klere onmiddellik na gebruik.

Was met seep en water na gebruik en toevallige velkontak.

In geval van kontak moet oë, spoel oë met skoon water vir minstens 15 minute.

Moenie eet, drink of rook tydens vermenging of toediening of voordat hande en gesig gewas en skoon klere aangetrek is nie.

Verhoed besoedeling van voedsel, voer, drinkwater en eetgerei.

Verhoed wegdrywing van sproeinewel na nie-teiken gewasse, weiding en ander gebiede wat nie behandel word nie, aangesien dit ernstige skade mag veroorsaak.

Maak toedieningsapparaat skoon voor her-gebruik en doen weg met waswater waar dit nie gewasse, weiding, riviere en damme sal besoedel nie.

Sodra leeg, keer die leë houer uit oor die spuitenk of mengbak en dreineer vir minstens 30 sekondes nadat die vloeistof tot 'n drup verminder het. Spoel die houer daarna driekeer uit met 'n volume water gelykstaande aan 10 % van die houer. Gooi die spoelwater by die inhoud van die spuitenk en vernietig die leë houer deur gate daarin te maak en plat te druk. Moenie vir enige ander doel her-gebruik nie.

SIMPTOME VAN VERGIFTIGING:

Hoofpyn, vermoeidheid, swakheid, duiseligheid, oormatige sweet, mislikheid, buikpyn, braking, buikloop, beklemde bors, benoudheid, versteurde gesigsvermoë, spiertrekkings, begin by die ooglede en tong, gewoonlik verkleinde pupille, stuiptrekkings, asemhalingsnood en bewusteloosheid.

NOODHULPBEHANDELING:

Ingeasem. Verwyder pasiënt van die oorsaak van vergiftiging na 'n koel en goed geventileerde omgewing. Stel pasiënt gerus en hou hom stil. Indien asemhaling bemoeilik word, gee suurstof. Verkry onmiddellik mediese hulp.

Velkontak. Spoel vel onmiddellik met genoegsame water af vir minstens 15 minute terwyl besoedelde klere en skoene verwyder word. Was klere en skoene deeglik voor her-gebruik. Verkry onmiddellik mediese hulp. Indien so aanbeveel deur 'n dokter mag atropientablette gegee word.

Oogkontak. Gaan na en verwyder enige kontaklense. In geval van kontak, spoel oë onmiddellik met genoegsame water vir minstens 15 minute. Koue water mag gebruik word. Verkry onmiddellik mediese hulp.

Ingesluk. MOENIE braking veroorsaak tensy so aangedui deur mediese personeel. Moet nooit iets per mond aan 'n bewustelose persoon toedien nie. Maak styfpassende klere soos bv. kraag, das of lyfband los. Verkry onmiddellik mediese hulp.

NOTA AAN GENEESHEER:

GRAB 500 EC is 'n cholinesterase – inhibeerder.

Atropiensulfaat en oksiemes kan as teenmiddel gegee word. Moniteer die rooi-bloedselle en cholinesterase- en plasma-vlakke. Gee suurstof indien nodig. Dien 2 mg atropiensulfaat toe elke 15 – 30 minute indien nodig. Behandel simptome.

WEERSTANDSWAARSKUWING:

Vir weerstandsbestuur is **GRAB 500 EC** 'n Groepkode 1B insekdoder. Enige populasie van 'n spesifieke insek mag individue insluit wat 'n natuurlike weerstand het teen **GRAB 500 EC** of 'n ander Groepkode 1B insekdoder. Die weerstandbiedende individue domineer die insekpopulasie wanneer hierdie insekdoder herhaaldelik gebruik word. Die weerstandbiedende insekte mag dalk nie deur **GRAB 500 EC** of 'n ander Groepkode 1B insekdoder beheer word nie.

Om weerstand teen insekdoders te vertraag:

- Verminder die eksklusiewe herhaaldelike gebruik van insekdoders in dieselfde insekdodergroepkode. Wissel af met, of gebruik tenklangsels van produkte in verskillende insekdodergroepcodes.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies) in insekbeheerprogramme.

Vir spesifieke inligting oor weerstandsbestuur kontak die registrasiehouer van hierdie produk

GEBRUIKSAANWYSINGS: GEBRUIK SLEKS SOOS AANGEDUI

Vir effektiewe vrugtevliegbeheer moet bome en veral vrugte deeglik met spuitmengsel benat word. Gevestigde infestasies van vrugtevlieg kan beheer word, en verdere verspreiding kan voorkom word, aangesien **GRAB 500 EC** die maaiers in die vrugte doodmaak. Boordsanitasie is belangrik in die beheer van snuitkewer en vrugtevlieg. Vrugte wat afgeval het, verrotte vrugte en saad moet bymekaar gemaak word vanaf November totdat oes verby is. Vernietig verrotte vrugte, saad en vrugte wat afgeval het deur dit ten minste 600 mm diep te begrawe, te doop in olie in ou olie dromme of dit deur 'n hamermeule te sit. Die effektiwiteit van **GRAB 500 EC** teen vrugtevlieg op perskes, appelkose en pruime mag benadeel word indien spuitvolumes van minder as 3 400 l / ha gebruik word.

TOEDIENINGSTABEL:

GEWAS	PLAAG	DOSIS / 100 l WATER	METODE VAN TOEDIENING
APPELS, PERE, PERSKES	Bryobiamyt	100 ml	Dien toe sodra besmettings opgemerk word. Herhaal indien nodig. Moenie op Doyenne du Comice, Josephine de Malines en Kieffer peerkultivars gebruik nie.
APPELS EN PERE	Kodlingmot	50 ml	Dien toe as 'n voldekbepuiting. Begin toedien by 75% blomblaarval. Herhaal bespuitings elke 2 – 3 weke. Moenie op Doyenne de Commice, Josephine de Malines pere toegedien word nie.
	Vrugtevlieë	50 ml	Dien 10 – 14 dae vóór vrugte van laat appel- en peer kultivars gepluk word toe, in gebiede waar vrugtevlieë broei in vroeër kultivars, naby eersgenoemde boorde. As die oestydperk strek oor 'n lang periode, is dit wenslik om 'n tweede bespuiting toe te dien 3 – 4 weke later, maar nie binne 10 dae vóór oes nie. Vrugtevlieg bespuitings sal terselfdertyd kodlingmot infestasies beheer.
APPELKOSE	Kodlingmot	100 ml	Dien toe as 'n voldekbepuiting 3 – 4 weke na blomblaarval. Herhaal toediening 2 – 3 weke later in geval van swaar infestasië.
KOFFIE	Antestia-besie	75 ml	Dien toe as 'n voldekbepuiting vóór hoof blomstadium en herhaal 2 weke daarna.
KOEJAWELS	Vrugtevlieg	100 ml	Dien twee bespuitings toe 4 weke en herhaal 10 dae vóór oes. In gebiede met warm periodes in die winter en vrugtevlieg aktief is, moet vrugte deeglik gepluk en bome deeglik gespuit word. Volg 3 – 4 weke later op met nog 'n bespuiting.
PAMPOENGWASSE (Komkommers, Skorsies, Pampoen, ens.)	Pampoenvlieg	120 ml	Dien toe in 'n program vanaf net na blomtyd met 2-3 weekse tussenposes. Die vrugte moet gedurende bespuitings deeglik benat word. Die gebruik van 'n geregistreerde byvoegmiddel, word aanbeveel.
	Plantluise	100 ml	Dien met eerste teken van besmetting toe. Herhaal indien nodig.
MANGO'S	Vrugtevlieë	100 ml	Dien 2 voldekbepuitings toe 20 dae en 10 dae vóór oes. Die gebruik van 'n geregistreerde byvoegmiddel, word aanbeveel.
	Snuitkewer	100 ml	Dien as 'n dekbespuiting toe, wat op die vrugte gerig is, as eierlegging plaasgevind het – dus laat Oktober tot vroeg November. Herhaal 14 dae later in die geval van 'n hoë infestasiëdruk.
STEENVRUGTE (Appelkose, Perskes, Pruime)	Vrugtevlieë	75 ml	<u>Enkel toediening:</u> In gebiede waar besmetting op 'n betreklike laat stadium bereik, dien 10 dae vóór oestyd toe. <u>Tweede toediening:</u> In gebiede waar vrugtevlieë in vroeër kultivars aanteel, dien 21 dae en 10 dae onderskeidelik vóór oestyd toe. L.W.: Moenie op Pucelle de Malines perskes en Alpha appelkose gebruik nie.