



BITRAD ACEPHATE

Reg.No. L7013 Act No. 36 of 1947

Reg.Nr. L7013 Wet Nr. 36 van 1947

READ ATTACHED LABEL BEFORE USE
KEEP OUT OF REACH OF CHILDREN AND ANIMALS

LEES DIE INGESLOTE ETIKET VOOR GEBRUIK
HOU BUITE BEREIK VAN KINDERS EN DIERE

INSECTICIDE GROUP 1B

A water soluble powder systemic and contact insecticide for the control of pests on crops as indicated.

INSEKDODER GROEP 1B

'n Wateroplosbare poeier sistemiese en kontak insekdoder vir die beheer van plae op gewasse soos aangedui.



WARNING

Hazard Statements:

Harmful if swallowed

Precautionary statements:

Wash hands, face, and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors in a well ventilated area. If Swallowed, get medical help

ACTIVE INGREDIENT

Acephate (organo phosphate)

.....750 g/kg.....

AKTIEWE BESTANDDEEL

Asefaat (organofosfaat)

Net Mass

Netto Massa

Registered by/Geregistreer deur:

BITRAD CONSULTING (PTY) LTD

41 Rudolph Str, Sunderland Ridge, Centurion. Tel: 012 666 7331

BATCH NUMBER
DATE MANUFACTURED

LOTNOMMER
DATUM VERVAARDIG

Expiry date



Vervaldatum

< 2 years/jaar

UN No.
Emergency number

2757
082 446 8946

VN nr.
Noodnommer

National Poisons Centre: 0861 555 777

WARNINGS:

- **Hazard Statement**

Harmful if swallowed

- **PRE HARVEST INTERVALS: NUMBER OF DAYS THAT MUST BE ALLOWED BETWEEN LAST APPLICATION AND HARVEST:**

Potatoes.....	14 days
Apples and Pears.....	30 days
Cruciferae.....	3 days
Peaches.....	28 days
Plums.....	28 days
Tobacco.....	14 days
Table- and Wine grapes.....	40 days
Tomatoes.....	3 days

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 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

- **Prevention**

Wash hands, face and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors in a well-ventilated area

- **Response**

If swallowed, call a Poison Centre or doctor if you feel unwell
Rinse mouth
Wear protective gloves, protective clothing as well as eye and face protection

- **Disposal**

Dispose of contents or container to an approved waste disposal facility

RESISTANCE WARNING:

For resistance management ACEPHATE is group code 1B insecticide. Any insect population may contain individuals naturally resistant to ACEPHATE 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 ACEPHATE or any other group code 1B insecticide.

- Avoid exclusive repeated use of insecticides from the same insecticide group code. Alternate or tank mix with products from different insecticide group codes.
- Integrate the control methods (chemical, growing practices, biological) into insect control programmes.

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

DIRECTIONS FOR USE

Use only as directed

MIXING INSTRUCTIONS

Half fill the spray tank with water and add the required amount of **BITRAD ACEPHATE**, while agitating. Ensure that all the lumps have dissolved before adding the rest of the water. Maintain agitation. Preferably agitation should be maintained during application of the remedy.

CROP/PEST	DOSAGE	DIRECTIONS FOR APPLICATION
POTATOES Aphids Potato tuber moth	500 - 750 g/ha 500 g/ha	Apply at first sign of infestation and repeat regularly. Apply in 200 – 500 l water/ha, depending on plant size. Use higher dosage rate to ensure initial control. Apply as a full cover spray in 200 - 500 l of water/ha, depending on plant size. Repeat at 8 - 14 day intervals if necessary. Ridge at least twice during the season. Will also control aphids.
APPLES AND PEARS American bollworm Codling moth Fruit nibbler Leaf roller Banded fruit weevil (Snout beetle) Antestia bug	50 g/100 l water (HV: 1,25 - 1,75 kg/ha) (LV: 1,0 - 1,4 kg/ha)	Apply at 75 % petal drop and repeat 14 days later. Do not apply more than two treatments per season. Will also control Antestia bug Apply as a full cover spray as soon as pest is noticed. Repeat when required, but do not apply more than two treatments per season. Will also control American bollworm, weevil, fruit nibbler, codling moth and leaf rollers.
CRUCIFERAE Diamond back moth larvae	350 - 500 g/ha	Apply as a full cover spray when pest is noticed, paying special attention to the underside of leaves. Repeat every 7 - 10 days if required. If infestation is already present, use higher dosage rate for the first application.
PEACHES American bollworm	50 g/100 l water (HV: 1,25 - 1,75 kg/ha) (LV: 1,0 - 1,4 kg/ha)	Western Cape only. Apply at 75 % petal fall and repeat 14 days later. Do not apply more than two treatments per season. Will also control codling moth, antestia bug, fruit nibblers and weevil.

Codling moth Antestia bug Banded fruit weevil (Snout beetle) Aphids	kg/ha) As for American bollworm 25 g/100 l water (HV: 0,38 - 0,63 kg/ha)	Western Cape only. Apply as a full cover spray and repeat if necessary. Do not apply more than two treatments per season. Will also control American bollworm and fruit nibblers. Western Cape only. Apply as a full cover spray and repeat if necessary. Do not apply more than two treatments per season
PLUMS American bollworm Antestia bug Codling moth Fruit nibbler Leaf roller Banded fruit weevil (Snout beetle)	50 g/100 l water (HV: 1,25 - 1,75 kg/ha) (LV: 1,0 - 1,4 kg/ha)	Western Cape only. Apply as a full cover spray when pests are noticed and repeat if necessary. Do not apply more than two treatments per season
TOBACCO American bollworm Leaf miner Slug Cutworms Green aphid (<i>Myzus persicae</i>) Seed beds (Cutworm and leaf eating)	Ground application: 200 g/100 l water Ground application: 200 g/100 l water Ground application: 200 g/100 l water Ground application: 165 g/100 l water Ground application: 200 g/100 l water Ground application: 1 g/m²	Apply as a full cover spray. Ensure thorough coverage of all leaves. Where a heavy infestation occurs a second application is recommended 7 days later. Repeat if necessary. Apply as a full cover spray. Ensure thorough coverage of all leaves. Where a heavy infestation occurs a second application is recommended 7 days later. Repeat if necessary Apply as a full cover spray and repeat application every 7 days up to 14 days before harvest. When a heavy infestation occurs, apply 400 g BITRAD ACEPHATE/100 l water as a full cover spray and re-apply 200 g BITRAD ACEPHATE/100 l water 7 days later. Pour 30 m³ of the solution over each young plant. Repeat if necessary. Apply as a full cover spray. Ensure thorough coverage of all leaves. Where a heavy infestation occurs a second application is recommended 7 days after the first application to obtain good initial control. Repeat application if necessary every 7 days. Spray: Mix 200 g BITRAD ACEPHATE/100 l water and use as coarse spray at the rate

insects)		of 500 ml solution/m ² to obtain a good run-off onto soil. Repeat every 7 days. Drench: Mix 65 g BITRAD ACEPHATE/100 l water and use a watering can to apply 1,5 litre solution/ m ² every 7 days.
TABLE- and WINE GRAPES Weevil (Snout beetle)	50 - 75 g/100 l water (HV: 0,13 - 1,1 kg/ha)	Apply as a full cover spray in 250 - 1 500 l spray mix/ha as soon as pest is noticed. Use the higher dosage rate in cases of severe infestation. Repeat 7 - 14 days later if necessary.
TOMATOES American bollworm	75 - 100 g/100 l water	Wet plants thoroughly. Commence spraying at flowering and repeat at 7 - 14 day intervals for as long as pest remains active. Repeat application after rain. If infestation is already present use higher dosage rate.
Thrips	100 g/100 l water	Apply as a full cover spray and ensure thorough coverage of plants. Where a heavy infestation occurs a second application is recommended 7 - 10 days after the first. Repeat application every 7 - 10 days if necessary.

WAARSKUWINGS:

- **Gevaar klousule**

Skadelik indien ingesluk

- OES WAGPERIODES: AANTAL DAE WAT MOET VERLOOP TUSSEN LAASTE TOEDIENING EN OES:

Aartappels.....	14 dae
Appels en Pere.....	30 dae
Koolgewasse.....	3 dae
Perskes.....	28 dae
Pruime.....	28 dae
Tabak.....	14 dae
Tafel- and Wyndruiwe.....	40 dae
Tamaties.....	3 dae

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 akkuraatheid van toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aangewasse, 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.

VOORSORGMAATREËLS

- **Voorkoming**

Was hande, gesig blootgestelde vel deeglik na hantering

Moet nie eet, drink of rook terwyl produk hanteer word nie
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Gebruik buitenshuis in goed deurlugte areas

- **Aksies**

Indien ingeneem, kry advies van 'n Gifsentrum of dokter indien persoon sleg voel
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Spoel mond

Dra beskermende handskoene, klere asook oog en gesigmasker
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- **Wegdoening**

Doen weg met inhoud of houer deur 'n goedgekeurde afval fasiliteit
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WEERSTANDWAARSKUWING:

ACEPHATE is 'n groepkode 1B insekdoder. Enige populasie van 'n spesifieke insek mag individue insluit wat 'n natuurlike weerstand teen ACEPHATE, 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 ACEPHATE of enige ander groepkode 1B insekdoder beheer word nie.

Om weerstand teen insekdoders te vertraag:

- Verminder eksklusiewe herhaaldelike gebruik van insekdoders met dieselfde groepkode. Wissel af met, of gebruik tenkmengsels van insekdoders uit ander groepkodes.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies) in insekdoder programme.

Vir spesifieke inligting oor weerstandbestuur, kontak die Verspreider van hierdie produk.

GEBRUIKSAANWYSINGS

Gebruik slegs soos aangedui.

MENGINSTRUKSIES

Voeg die benodigde hoeveelheid **BITRAD ACEPHATE** by 'n halfvol spuittenk, en roer tot alle klonte opgelos is. Maak seker dat al die klonte opgelos is voor res van water bygevoeg word. Voeg die res van die water by terwyl voortdurend geroer word. Dit word aanbeveel dat roering volgehou word tydens bespuiting.

GEWAS/PLAAG	DOSIS	GEBRUIKSAANWYSINGS
AARTAPPELS Plantluise	500 - 750 g/ha	Dien toe in 200 - 500 l water/ha, afhangende van plantgrootte. Begin toediening by eerste tekens van besmetting en herhaal gereeld. Die hoër dosis moet gebruik word om die aanvanklike besmetting te beheer.
Aartappelmot	500 g/ha	Dien as 'n volle dekbespuiting in 200 - 500 l water/ha, afhangende van plantgrootte. Herhaal met 8 - 14 dae tussenposes indien nodig. Die aartappels moet ten minste 2 maal per seisoen opgeërd word. Sal ook plantluise beheer.
APPELS EN PERE Amerikaanse bolwurm Kodlingmot Vrugtevreter Bladroller Gebande vrugtekalande (Snuitekewer)	50 g/100 l water (HV: 1,25 - 1,75 kg/ha) (LV: 1,0 - 1,4 kg/ha)	Dien toe teen 75 % blomblaarval. Herhaal 14 dae later. Moet nie meer as twee behandelings per seisoen toedien nie. Sal ook Antestia besie beheer.
Antestia besie		Dien as 'n volle dekbespuiting toe sodra plaag opgemerk word. Herhaal toediening soos nodig, maar moet nie meer as twee toedienings per seisoen toedien nie. Sal ook Amerikaanse bolwurm, Kalande, Vrugtevreter, Kodlingmot and Bladrollers beheer.
KOOLGEWASSE Ruitrugmotlarwes	350 - 500 g/ha	Dien as 'n volle dekbespuiting toe sodra plaag opgemerk word. Dit is nodig om die onderkant van blare deeglik te benat. Herhaal toediening met 7 - 10 dae tussenposes, of soos nodig. Die hoër dosis moet by die eerste toediening gebruik word indien die larwes reeds teenwoordig is.
PERSKES Amerikaanse bolwurm	50 g/100 l water (HV: 1,25 - 1,75 kg/ha) (LV: 1,0 - 1,4 kg/ha)	Slegs in die Wes-Kaap. Dien toe teen 75 % blomblaarval, herhaal 14 dae later. Moenie meer as twee behandelings per seisoen toedien nie. Sal ook Kodlingmot, Antestia besie, Vrugtevreter en

Kodlingmot Antestia besie Gebande vrugtekalande (Snuitkewer)	Soos vir Amerikaanse bolwurm	Kalander beheer. Slegs in die Wes-Kaap. Dien toe as 'n volle dekbespuiting sodra die plaag opgemerk word, herhaal indien nodig. Moenie meer as twee behandelings per seisoen toedien nie. Sal ook die Amerikaanse bolwurm en Vrugtevreter beheer.
Plantluise	25 g/100 l water (HV: 0,38 - 0,63 kg/ha)	Slegs in die Wes-Kaap. Dien toe as 'n volle dekbespuiting sodra die plaag opgemerk word en herhaal indien nodig. Moenie meer as twee behandelings per seisoen toedien nie.
TABAK Amerikaanse bolwurm	Grondtoediening: 200 g/100 l water	Volle dekbespuiting. Verseker deeglike benatting van alle blare. Indien swaar besmetting voorkom, word 'n tweede toediening aanbeveel 7 dae later. Herhaal indien nodig.
Blaarmyner	Grondtoediening: 200 g/100 l water	Volle dekbespuiting. Verseker deeglike benatting van alle blare. Indien swaar besmetting voorkom, word 'n tweede toediening aanbeveel 7 dae later. Herhaal indien nodig.
Slak	Grondtoediening: 200 g/100 l water	Dien toe as 'n volle dekbespuiting en herhaal elke 7 tot 14 dae voor oes. Indien 'n hoë besmetting voorkom, dien 400g BITRAD ACEPHATE/100 l water as 'n volle dekbespuiting toe en volg op met 'n bespuiting van 200 g BITRAD ACEPHATE/100 l water 7 dae later.
Snywurm	Grondtoediening: 165 g/100 l water	Gooi 30 ml van die oplossing uit oor elke plant. Herhaal indien nodig.
Groen plantluis (<i>Myzus persicae</i>)	Grondtoediening: 200 g/100 l water	Dien toe as 'n volle dekbespuiting en verseker deeglike benatting van al die blare. Wanneer 'n hoë besmetting voorkom word 'n tweede toediening 7 dae na die eerste aanbeveel om 'n goeie aanvanklike beheer te verkry. Herhaal toediening elke 7 dae indien nodig.
Saadbeddings (Snywurm en blaarvretende insekte)	Grondtoediening: 1 g/m ²	Bespuiting: Meng 200 g BITRAD ACEPHATE/100 l water en dien toe as 'n growwe bespuiting teen 500ml oplossing/ m ² om goeie afloop na grond te kry. Herhaal elke 7 dae. Inwassing: Meng 65 g BITRAD ACEPHATE/100 l water en dien toe met behulp van 'n gieter teen 1,5 liter oplossing/ m ² elke 7 dae.

TAFEL- EN WYNDRUIWE Kalander (Snuitkewer)	50 - 75 g/100 l water (HV: 0,13 - 1,1 kg/ha)	Dien as 'n volle dekbespuiting toe in 250 - 1500 l spuitmengsel/ha sodra die plaag opgemerk word. Gebruik die hoër dosis indien die besmetting straf is. Herhaal 7 - 14 dae later indien nodig.
TAMATIES Amerikaanse bolwurm Blaaspootjies	75 - 100 g/100 l water 100 g/100 l water	Plante moet baie deeglik benat word. Die bespuitings moet tydens blom 'n aanvang neem, en elke 7 - 14 dae herhaal word, vir solank die plaag aktief is. Herhaal bespuitings na reën. Die hoër dosis moet gebruik word indien plaag reeds voorkom Dien toe as 'n volle dekbespuiting en sorg dat plante deeglik benat word. Met 'n hoë besmetting dien 'n tweede bespuiting 7 - 10 dae na eerste toe. Herhaal elke 7 - 10 dae indien nodig.