



Reg. No. L 11836 Act No. 36 of 1947 / Reg. Nr. L 11836 Wet Nr. 36 van 1947

READ THE LABEL BEFORE USE

KEEP OUT OF REACH OF CHILDREN AND ANIMALS

Group/Groep

UNF

Insecticide/Insekdoder

A BIOLOGICAL INSECTICIDE FOR THE CONTROL OF VARIOUS INSECTS ON CROPS AS LISTED.

'N BIOLOGIESE INSEKDODER VIR DIE BEHEER VAN VERSKEIE INSEKTE OP GEWASSE SOOS AANGEDUI.

NOT CLASSIFIED AS HAZARDOUS IN TERMS OF GHS.

Active Ingredient / Aktiewe Bestanddeel:

Beauveria bassiana 2×10^9 spores/gram *Beauveria bassiana*

Net Content
1 kg

Registered, Marketed and Distributed by / Geregistreer, Bemark en Versprei deur:

MBFi (PTY) LTD • Reg No.: 2015/165672/07 • No. 144 Avenue 2, Modder East Orchards, Delmas, 2210

Tel: +27 (0) 82 738 0080 • Email: orders@mbfi.co.za • Web: www.mbfi.co.za

IN CASE OF POISONING, CALL THE FOLLOWING EMERGENCY NUMBER / IN GEVAL VAN VERGIFTIGING, SKAKEL DIE VOLGENDE NOODNOMMER 082 446 8946 / 0861 555 777

Intact® is a registered trademark of MBFi (PTY) LTD / Intact® is 'n geregistreerde handelsmerk van MBFi (EDMS) BPK.



ZAR 001

WARNINGS:• **GHS Hazard Statements:**

Pictograms and Signal word	Hazard Statement
Not Classified as Hazardous	Not Classified as Hazardous

Withholding period - Minimum time between last application and harvest:

Berry, Canola, Citrus, Cruciferae, Cucurbit, Pome fruit, Stone fruit, Tomato 0 days

Re-entry interval: Do not enter the treated area until the spray deposit has dried unless wearing protective clothing.

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 active ingredient is a living organism its action and effect may be affected by factors such as abnormal climatic and storage conditions; quality of dilution water and compatibility with other substances not indicated on the label, as well as by the method, time and accuracy of application. Furthermore, the registration holder, 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:• **GHS Precautionary Statements:**

P102	Keep out of reach of children.
P262	Do not get in eyes, on skin, or on clothing.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P305 P351 P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403	Store in a well-ventilated place.
P410	Protect from sunlight.
P411	Store at temperatures not exceeding 25°C.

- Remember, the active ingredient in Intact® is a living organism.
- Do not mix with bactericides.
- Do not mix in containers that have previously been used for fungicides.
- Wash containers well with soap and water and rinse thoroughly before use.
- Do not use after the product has passed its expiry date.
- Do not leave product standing in direct sun or in extreme heat.
- Once product has been mixed with water it should be used within 6 hours.
- Wash hands with soap and water after handling the product.
- Clean the empty bag as follows: Shake all the pesticide formulation out of the bag into the spray or mixing tank. Turn the bag inside out. Hold the bag over the spray or mixing tank and rinse the bag with running water for thirty seconds. Shake the rinsate off into the tank. Repeat the rinsing twice. Do not bury, burn or donate the bag to any other parties that may use it as a container for foodstuffs. These bags cannot be recycled and must be incinerated by a licensed incineration facility.

Intact® is a wettable powder which should be premixed in a small container with water and then further mixed with water and applied as a foliar spray with equipment equipped for conventional insecticide application.

DIRECTIONS FOR USE:

- Use only as indicated on this label.

Compatibility: Avoid the use of broad-spectrum fungicides for at least 3 days before and after Intact® applications.

Mixing: Fill the spray tank with water to about half of the total spray volume required. Start agitation and add the required amount of Intact® to the spray tank. It is recommended to add Twister at 25-50 ml/100 L to the specific crop recommendations below. Continue while filling the spray tank to the required spray volume. Maintain sufficient agitation during application to ensure uniformity of the spray mix. Do not allow water or spray mixture to back-siphon into the water source.

If spraying and agitation must be stopped before the spray tank is empty, settled materials must be re-suspended before spraying is resumed. A back flow sparger agitator at the bottom of the tank is particularly useful for this purpose.

Application: Proper application techniques help ensure thorough spray coverage and the correct dosage necessary to obtain optimum control of pests. The following recommendations are provided for effective application of Intact®. To ensure adequate spray coverage, attention should be given to ground speed and calibration, wind speed, and foliar canopy. Ensure full coverage of the crop to but not further than the point of run-off. Apply Intact® in the early morning or late afternoon when the RH is 50% and higher, preferably 70%. Repeat application after heavy rainfall.

Application for Row Crops: Use conventional ground spray equipment calibrated to provide thorough coverage of the target crop. Align the boom and nozzles to obtain uniform coverage of the target crop. Under certain conditions, nozzles on drop arms may be required to obtain uniform crop coverage. Use hollow cone nozzles suitable for insecticide spraying. Follow the manufacturer's recommendations for ideal nozzle spacing, pressure, and boom height.

Crop and Pest	Dosage/100 L Water	Remarks
Berry: Red spider mite <i>Tetranychus urticae</i>	Low pest pressure: 500 g/ha High pest pressure: 1 kg/ha	Apply when pests are first noticed, repeat application every 3-7 days depending on pest pressure. When utilising low volume with a high concentration, directed spray to the insect is most beneficial and results in a higher efficacy. The volume of spray mixture to be applied/ha depends on the plant size and plant density. Start with a min of 300 L spray mixture/ha on young plants and increase volume up to 1000 L/ha as plant size increases.
Canola: Diamond Back Moth <i>Plutella xylostella</i>	Low pest pressure: 500 g/ha + Twister 50 ml/100 L High pest pressure: 1 kg/ha + Twister 50 ml/100 L	Apply when pests are first noticed, repeat 1-3 applications at 3-7 day intervals depending on pest pressure.
Citrus: False codling moth <i>Thaumatotibia leucotreta</i>	50 g Min of 500 g/ha	Apply as a full cover spray, contact with pest is desired for max effect. Apply when moth activity peaks or eggs or larvae are first noticed. Repeat application every 10-14 days or use an IPM program. The higher rate is preferred on larger trees, higher spray volume applications or when pest severity is high.

Crop and Pest	Dosage/100 L Water	Remarks
Cruciferae: Diamond Back Moth <i>Plutella xylostella</i>	Low pest pressure: 500 g/ha High pest pressure: 1 kg/ha	Apply when pests are first noticed, repeat application every 3-7 days depending on pest pressure. The volume of spray mixture to be applied/ha depends on the plant size and plant density. Start with a min of 300 L spray mixture/ha on young plants and increase volume up to 600 L/ha as plant size increases.
Cucurbit: Red spider mite <i>Tetranychus urticae</i> Western flower thrips <i>Frankliniella occidentalis</i>	Low pest pressure: 500 g/ha High pest pressure: 1 kg/ha	Apply when pests are first noticed, repeat application every 3-7 days depending on pest pressure. When utilising low volume with a high concentration, directed spray to the insect is most beneficial and results in a higher efficacy. The volume of spray mixture to be applied/ha depends on the plant size and plant density. Start with a min of 300 L spray mixture/ha on young plants and increase volume up to 1000 L/ha as plant size increases.
Pome Fruit: Codling moth <i>Cydia pomonella</i>	50 g Min of 500 g/ha	Apply as a full cover spray, contact with pest is desired for max effect. Apply when moth activity peaks or eggs or larvae are first noticed. Repeat application every 10-14 days or use an IPM program. The higher rate is preferred on larger trees, higher spray volume applications or when pest severity is high.
Stone fruit: False codling moth <i>Thaumatotibia leucotreta</i>	50 g Min of 500 g/ha	Apply as a full cover spray, contact with pest as desired for max effect. Apply when moth activity peaks or eggs or larvae are first noticed. Repeat application every 7 days or use an IPM program. The higher rate is preferred on larger trees, higher spray volume applications or when pest severity is high.
Tomato: Tuta <i>Tuta absoluta</i> Whitefly <i>Bemisia tabaci</i>	Low pest pressure: 500 g/ha High pest pressure: 1 kg/ha	Apply when pests are first noticed, repeat application every 3-7 days depending on pest pressure. When utilising low volume with a high concentration, directed spray to the insect is most beneficial and results in a higher efficacy. The volume of spray mixture to be applied/ha depends on the plant size and plant density. Start with a min of 250 L spray mixture/ha on young plants and increase volume up to 1000 L/ha as plant size increases.

WAARSKUWINGS:

- GHS-Gevaarstelling:

Piktogram en Seinwoord	Gevaarstelling
Nie geklassifiseer as gevaarlik	Nie geklassifiseer as gevaarlik

Weerhouingsperiode - Minimum tyd tussen laaste aanwending en oestyd:

Bessie, Kanola, Kernvrugte, Koolgewasse, Pampoengewasse, Sitrus, Steenvrugte, Tamatie..... 0 dae

Waggerperiode: Moenie behandelde area binnegaan totdat spuitstof droog is nie behalwe as beskermende klere gedra word.

Alhoewel hierdie middel omvattend onder 'n groot verskeidenheid toestande getoets is, waarborg die registrasiehouer nie dat dit onder alle toestande doeltreffend sal wees nie. Omdat die aktiewe bestanddeel 'n lewende organisme is, kan die werking en effek daarvan beïnvloed kan word deur faktore soos abnormale klimaats- en bergingstoestande; kwaliteit van verdunningswater; verenigbaarheid met ander stowwe wat nie op die etiket aangedui word nie, sowel as die metode, tyd en akkuraatheid van toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei, die omgewing of skade aan mens of dier, of vir 'n gebrek aan prestasie van die betrokke middel nie, as gevolg van die versuim van die gebruiker om die etiketinstruksies te volg of die voorkoms van toestande wat nie in terme van die registrasie voorsien kon word nie. Raadpleeg die verskaffer in geval van enige onsekerheid.

VOORSORGMATREËLS:

- GHS-Voorsorgverklarings:

P102	Hou buite bereik van kinders.
P262	Moenie in oë, op vel of op klere kry nie.
P280	Dra beskermende handskoene, beskermende klere, oogbeskerming en gesigbeskerming.
P305 P351 P338	AS IN DIE OË: Spoel versigtig met water vir 'n paar minute. Verwyder kontaklense indien teenwoordig en maklik om te doen. Hou aan uitspoel.
P403	Berg in 'n goed geventileerde plek.
P410	Beskerm teen sonlig.
P411	Berg by temperature wat nie 25°C oorskry nie.

- Onthou, die aktiewe bestanddeel in Intact® is 'n lewende organisme.
- Moenie met bakteriedoders meng nie.
- Moenie meng in houe wat voorheen gebruik is vir swamdoders nie.
- Was houe behoorlik met seep en water en spoel deeglik uit voor gebruik.
- Moenie die produk gebruik as die vervaldatum reeds verstryk het nie.
- Moenie die produk laat staan in direkte sonlig of in uitermatige hitte nie.
- Gebruik produk binne 6-ure vandat dit met water gemeng is.
- Na hantering van produk was hande met seep en water.
- Maak die leë foeliesak as volg skoon: Skud al die plaagdoderformulasie uit die sak in die spuit of mengtenk in. Dop die sak se binnekant na buite uit. Hou die sak oor die spuit of mengtenk en spoel die sak vir dertig sekondes met lopende water. Skud die spoelwater in die tenk af. Spoel nog twee keer. Moet nie die sak begrawe verbrand of aan enige ander partye skenk wat dit as houer vir voedsel mag gebruik nie. Hierdie sakke kan nie herwin en verwerk word nie hulle moet deur 'n gelisensieerde verbrandingsaanleg verbrand word.

Intact® is 'n benatbare poeier wat in 'n klein houer met water voorafgemeng moet word en dan verder met water gemeng word en toegedien word as 'n blaarbespuiting met toerusting toegerus vir konvensionele insekdodertoediening.

GEBRUIKSAANWYSINGS:

- Gebruik slegs soos aangedui op hierdie etiket.

Verenigbaarheid: Vermoed die gebruik van breëspektrum swamdoders vir ten minste 3 dae voor en na Intact®-toedienings.

Meng: Vul die spuittenk met water tot ongeveer die helfte van die totale spuitvolume wat nodig word. Begin roer en voeg die benodigde hoeveelheid Intact® by die spuittenk. Dit word aanbeveel om Twister by te voeg teen 25-50 ml/100 L tot die spesifieke gewasaanbevelings hieronder. Hou aan met meng en roer terwyl die spuittenk gevul word tot by die vereiste volume. Handhaaf genoegsame roering gedurende toediening om eenvormigheid van spuitmengsel te verseker. Moenie water of spuitmengsel toelaat om terug te loop in die waterbron in nie.

Indien die spuit en roeraksie onderbreek moet word voordat die spuittenk leeg is moet die materiale wat afgesak het eers weer deeglik gemeng word voordat besproeiing hervat word. 'n Terugvloeipyp met sywaartse uitlate op die bodem van die tenk is besonders handig vir hierdie doel.

Aanwending: Die regte toedieningstegnieke verseker deeglike spuitbedekking en die korrekte dosering wat nodig word vir die optimale beheer van peste. Die volgende aanbevelings word verskaf vir die effektiewe toediening van Intact®. Om voldoende spuitbedekking te verseker moet aandag gegee word aan grondspoed en kalibrasie, windsnelheid en blaar oppervlak. Verseker volle dekking van die gewas, maar nie verby die punt van afloop nie. Dien Intact® vroeg oggend of laat middag toe wanneer die RH 50% en hoër is, verkieslik 70%. Herhaal toepassing na swaar reënval.

Aanwending vir Rygewasse: Gebruik konvensionele grondbesproeiingstoerusting wat gekalibreer is om deeglike bedekking van die gewasse te verskaf. Stel die spuitbalk en spuitkoppe op om eenvormige bedekking te verseker. Onder sekere omstandighede mag spuitkoppe op val-arms nodig wees om eenvormige bedekking te verseker. Gebruik keëlvormige hol spuitkoppe wat geskik is vir die spuit van insekdoders. Volg die vervaardiger se aanbevelings vir die beste spuitkopspasiëring, druk en spuitbalk hoogte.

Gewas en Plaaig	Dosis/100 L Water	Opmerkings
Bessie: Rooispinmyt <i>Tetranychus urticae</i>	Lae plaagdruk: 500 g/ha Hoë plaagdruk: 1 kg/ha	Begin toediening by eerste tekens van die plaag en herhaal elke 3-7 dae, afhangend van plaagdruk. Wanneer lae volumes teen hoë konsentrasies benut word, is direkte spuit teen die insek die mees voordeligste en is die resultate van hoë effektiwiteit. Die volume spuitmengsel wat/ha toegedien word, hang af van die plantgrootte en die plantdigtheid. Begin met 'n min van 300 L/ha spuitmengsel op jong plante en verhoog die volume tot op 1000 L/ha soos die plantgrootte toeneem.
Kanola: Ruitrugmot <i>Plutella xylostella</i>	Lae plaagdruk: 500 g/ha + 50 ml/100 L Twister Hoë plaagdruk: 1 kg/ha + 50 ml/100 L Twister	Begin toediening by eerste tekens van die plaag en herhaal 1-3 toedienings elke 3-7 dae, afhangend van plaagdruk.

Gewas en Plaaig	Dosis/100 L Water	Opmerkings
Kernvrugte: Kodlingmot <i>Cydia pomonella</i>	50 g Min van 500 g/ha	Dien toe as 'n voldekbepuiting en verseker dat die spuitmengsel kontak maak met die pes vir die beste beheer. Dien toe wanneer die mot vlug hulle piek bereik of indien eiers of larwes opgemerk word. Herhaal toediening elke 10-14 dae of maak gebruik van 'n GPB program. Die hoër dosis word aanbeveel vir groter bome, hoë volume toedienings of indien die plaagdruk hoog is.
Koolgewasse: Ruitrugmot <i>Plutella xylostella</i>	Lae plaagdruk: 500 g/ha Hoë plaagdruk: 1 kg/ha	Begin toediening by eerste tekens van die plaag en herhaal elke 3-7 dae, afhangend van plaagdruk. Die volume spuitmengsel wat/ha toegedien word hang af die plantgrootte en die plantdigtheid. Begin met 'n min van 300 L/ha spuitmengsel op jong plante en verhoog die volume tot op 600 L/ha soos die plantgrootte toeneem.
Pampoengewasse: Rooispinmyt <i>Tetranychus urticae</i> Westelike blomblaaspootjie <i>Frankliniella occidentalis</i>	Lae plaagdruk: 500 g/ha Hoë plaagdruk: 1 kg/ha	Begin toediening by eerste tekens van die plaag en herhaal elke 3-7 dae, afhangend van plaagdruk. Wanneer lae volumes teen hoë konsentrasies benut word, is direkte spuit teen die insek die mees voordeligste en is die resultate van hoë effektiwiteit. Die volume spuitmengsel wat/ha toegedien word hang af die plantgrootte en die plantdigtheid. Begin met 'n min van 300 L/ha spuitmengsel op jong plante en verhoog die volume tot op 1000 L/ha soos die plantgrootte toeneem.
Sitrus: Valskodlingmot <i>Thaumatotibia leucotreta</i>	50 g Min van 500 g/ha	Dien toe as 'n voldekbepuiting en verseker dat die spuitmengsel kontak maak met die pes vir die beste beheer. Dien toe wanneer die mot vlug hulle piek bereik of indien eiers of larwes opgemerk word. Herhaal toediening elke 10-14 dae of maak gebruik van 'n GPB program. Die hoër dosis word aanbeveel vir groter bome, hoë volume toedienings of indien die plaagdruk hoog is.
Steenvrugte: Valskodlingmot <i>Thaumatotibia leucotreta</i>	50 g Min van 500 g/ha	Dien toe as 'n voldekbepuiting en verseker dat die spuitmengsel kontak maak met die pes vir die beste beheer. Dien toe wanneer die mot vlug hulle piek bereik of indien eiers of larwes opgemerk word. Herhaal toediening elke 7 dae of maak gebruik van 'n GPB program. Die hoër dosis word aanbeveel vir groter bome, hoë volume toedienings of indien die plaagdruk hoog is.

Gewas en Plag	Dosis/100 L Water	Opmerkings
Tamatie: Tamatie blaarmyner <i>Tuta absoluta</i> Witvlieg <i>Bemisa tabaci</i>	Lae plaagdruk: 500 g/ha Hoë plaagdruk: 1 kg/ha	Begin toediening by eerste tekens van die plag en herhaal elke 3-7 dae, afhangend van plaagdruk. Wanneer lae volumes teen hoë konsentrasies benut word, is direkte spuit teen die insek die mees voordeligste en is die resultate van hoë effektiwiteit. Die volume spuitmengsel wat/ha toegedien word hang af die plantgrootte en die plantdigtheid. Begin met 'n min van 250 L/ha spuitmengsel op jong plante en verhoog die volume tot op 1000 L/ha soos die plantgrootte toeneem.

Twister (L9666 - 700 g/L Gemetileerde esters van groente oile) is 'n geregistreerde handelsmerk van MBFI (EDMS) BPK en geregistreer onder Wet 36 van 1947.