

BEFORE USING THIS PRODUCT, READ THE LABEL CAREFULLY

GERBUKSAANWYSINGS INGESLUIT
VERWYS NA BESONDERHEDE
SOOS OP HOUER / SAK GEDRUK
Lotnummer
Datum van vervaardiging

DIRECTIONS FOR USE ENCLOSED
REFER TO DETAILS AS PRINTED
ON CONTAINER / BAG
Batch Number
Date of manufacture

Cera Trap[®]

BioControl



A hydrolysed protein product as biological solution for the use as fruit fly attractant in mass trapping control of Mediterranean Fruit Fly, Natal Fruit Fly, Marula Fruit Fly and Oriental Fruit Fly (*Bactrocera dorsalis*) in citrus, table grapes, pome- and stone fruit.

'n Gehidroliseerde proteïenprodukt as biologiese oplossing vir gebruik as vrugtevlieglokval vir massavangs-beheer van Mediterreense Vrugtevlieg, Natalse Vrugtevlieg, Marula Vrugtevlieg en Oosterse Vrugtevlieg (*Bactrocera dorsalis*) in sitrus, tafeldruive, kern- en steenvrugte.

FRUIT FLY BAIT AND TRAP

VRUGTEVLIÉG LOKAAS EN LOKVAL

ACTIVE INGREDIENT / AKTIEWE BESTANDEEL

| | | |
|--------------------|------------|--------------------------|
| Hydrolysed protein | 5.9% (w/v) | Gehidroliseerde proteïen |
|--------------------|------------|--------------------------|

E0121F1/1019

Registration Holder / Registrasiehouer: **Intelekt Crop Solutions (Pty) Ltd.**

A wholly owned subsidiary of InteliChem (Pty) Ltd.

Co. Reg. No. 2014/042423/07

Kathrein Wine Estate, Annandale Rd, Lynedoch, 7603, South Africa

Reg. No. L 10728

Act/Wet No. 36 of/van 1947

Nambian Reg. No. N-AR 2109

1: 30/09/2019

20 l

UN Number: NR

 **Bioiberica**

BIOIBERICA S.A.U.
C. Antic Camí de Tordera, 109-119
08389-Palafolls (Barcelona) - Spain
www.planthealth.es



InteliBio
solutions



READ THE LABEL IN DETAIL BEFORE OPENING THE CONTAINER. / LEES DIE ETIKET
VOLLEDIG VOORDAT DIE HOUER OOPGEMAAK WORD.

For full particulars, see enclosed leaflet. / Vir volledige besonderhede, sien ingeslote pamflet.

Cera Trap

Reg. No.: L10728 Act no. 36/1947

A hydrolysed protein product as Biological Solution for use as fruit fly attractant in mass trapping control of the Mediterranean Fruit fly (*Ceratitis capitata*), Natal Fruit fly (*Ceratitis rosa*), Marula Fruit fly (*Ceratitis cosyra*) and Oriental Fruit fly (*Bactrocera dorsalis*) in crops as listed.

ACTIVE INGREDIENT

Hydrolysed protein..... 5.9% (w/v)

Registration holder

Intelekt Crop Solutions (Pty) Ltd a wholly owned subsidiary of InteliChem (Pty) Ltd, Co. Reg. No.: 2014/042423/07, Bilton House, Blyhoek farm, Annandale road, Lynedoch, 7603, South Africa, Tel: 021 881 8500

IMPORTANT NOTES ON MRL'S:

WITHHOLDING PERIOD: 0 DAYS.

IN THE CASE OF CROPS INTENDED FOR EXPORT, THIS PRODUCT FULLY COMPLIES IF IT IS USED ACCORDING TO THE RECOMMENDATIONS ON THIS LABEL.

WARNINGS:

- Handle with care.
- Store in a cool, dry place, away from food, feeds and seed.
- Keep out of reach of children, uninformed persons and animals.
- **Withholding period:** 0 Days. The product is entirely free of harmful chemical pesticides.

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, as well as by the method, time and accuracy of application. The registration holder further does not accept responsibility for damage to crops, vegetation, and 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 event of any uncertainty.

PRECAUTIONS:

- When **Cera Trap** is used in combination with other registered insecticides, adhere to all the "**WARNINGS**", "**PRECAUTIONS**", "**DIRECTIONS FOR USE**" and **RECOMMENDATIONS** as indicated on the specific insecticides' label.
- Wear rubber / latex gloves while handling the product.
- Wash with soap and water after use and accidental skin and eye contact.
- Wash contaminated clothing after use.
- Do not eat, drink or smoke while mixing or applying the product.
- Clean application equipment after use. Dispose of wash water where it will not contaminate crops, grazing, rivers, dams and boreholes.
- Destroy the empty container by perforation and flattening and dispose of it in a safe manner.
- Never re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.
- Prevent contact with fruit to avoid possible damage.

MODE OF ACTION:

Cera Trap is a fruit fly trap that consists of a plastic container with lateral holes, filled with a hydrolysed protein bait, a liquid food attractant lure for capturing especially female fruit flies. The **Cera Trap** trap is placed in the canopy of a fruit tree or vine. Fruit flies will enter the **Cera Trap** trap and drown in the **Cera Trap** bait. **Cera Trap** bait does not contain an insecticide and is considered a non-toxic, biological control remedy that can be used in an integrated management system to suppress the target population and reduce damage to fruit crops.

DIRECTIONS FOR USE:

Cera Trap is a mass-trapping system for control of pestiferous fruit fly species including *Ceratitidis capitata*, *Ceratitidis rosa*, *Ceratitidis cosyra* and *Bactrocera dorsalis*. **Cera Trap** bait is based on an enzymatically hydrolysed protein mixture which is highly selective, contains no chemical insecticides and is a non-toxic biological control measure. In an integrated pest management system utilising area-wide control methods such as aerial baiting or sterile insect technology, **Cera Trap** provides comprehensive fruit fly control. **Cera Trap** is neither harmful nor disruptive to beneficial insects and other arthropods. No use-restriction applies to **Cera Trap** as the **Cera Trap** bait is not directly applied onto the crop.

The **Cera Trap** traps consist of three components to be assembled prior to hanging in the tree: -

- A jar type container with lid on. The jar is filled with the enzymatically hydrolysed protein mixture and the cap should be removed when attaching the funnel cap;
- A funnel cap which is screwed onto the jar;
- A wire hook which is attached to the funnel cap to enable effective hanging of traps in the orchards.

MONITORING RECOMMENDATIONS:

- Fruit fly population levels and damage should be assessed throughout the susceptible period of the crop to determine pest pressure.
- Recommended monitoring systems include FF lure baited Delta traps (Chempac), Biolure baited Bucket traps (Chempac), or Capilure- and Questlure baited Sensus traps (River Bioscience).
- Monitoring traps should be examined at weekly intervals.
- Monitoring of Oriental fruit fly (*Bactrocera dorsalis*) with ME lure baited Bucket traps (Chempac) is a requirement for phytosanitary registration of fruit for export to specific markets. If detected in the area the appropriate authorities should be informed and all susceptible varieties in a 25 km² area should be treated until eradication is achieved per the guidelines as supplied by Department of Agriculture, Forestry and Fisheries (DAFF).

APPLICATION RECOMMENDATIONS:

CERA TRAP TRAPS:

| CROP | PEST | RATE PER HECTARE | REMARKS |
|--|--|----------------------------------|--|
| Citrus, Stone & Pome fruit and Table grapes. | Mediterranean fruit fly, Natal fruit fly, Marula fruit fly and Oriental fruit fly. | 50, 75 or 100 Traps per hectare. | Refer to Rate Indicator table for specific rate recommendations. |

CERA TRAP BAIT:

| CROP | PEST | RATE PER TRAP | REMARKS |
|--|--|------------------|----------------------------|
| Citrus, Stone & Pome fruit and Table grapes. | Mediterranean fruit fly, Natal fruit fly, Marula fruit fly and Oriental fruit fly. | 600 ml per trap. | Refill every 8 – 10 weeks. |

RATE INDICATOR:

| CERA TRAP TRAPS/HA | FRUIT FLY PRESSURE | HISTORIC FRUIT FLY PRESSURE | HOST PLANTS OR CROPS | CROP SUSCEPTIBILITY |
|--------------------|--------------------|-----------------------------|----------------------|---------------------|
| 50 | Low | Low | No | Low |
| 75 | Medium | Medium | Yes | Medium |
| 100 | High | High | Yes | High |

- **Cera Trap** is a Biological Solution which could successfully be used in an integrated pest management programme against listed target pests.
- **Cera Trap** bait attracts fruit flies of all species, predominantly juvenile females.
- **Cera Trap** bait is most effective when used in combination with the original **Cera Trap** trap.
- Hang the first **Cera Trap** traps as soon as the fruit become susceptible to fruit fly attacks or as early as 12 weeks before harvesting, depending on the crop and cultivar.
- It is vitally important that infested fruit are regularly removed from orchards before and during the harvest period. Additionally, all fruit left after harvest should be removed from trees to reduce pest pressure.
- **Cera Trap** traps should be hanged on the Northern side of the tree, at a height of approximately 1.5 m and within the canopy of the tree.
- **Cera Trap** could be used in combination with Male Annihilation Technique (MAT) for improved *Bactrocera dorsalis* control.
- Density of **Cera Trap** traps should be increased on perimeter of orchards bordering an alternative host or source of fruit fly invasion (see rate indicator).
- Density of **Cera Trap** traps should be increased for crops with a high susceptibility (see rate indicator).
- Density of **Cera Trap** traps should be increased where a high fruit fly population exists (see rate indicator). In the case of significant damage, application of complementary aerial- or ground sprays with a suitable insecticide is recommended.
- To reduce overwintering fruit fly populations, traps should be refilled with **Cera Trap** bait after harvest.
- **Cera Trap** traps should be refilled with **Cera Trap** bait up to a maximum of 600 ml before total evaporation occurs.
- **Cera Trap** traps can be left in the orchard to be refilled the following season or removed and stored until such time.
- Refilling intervals of **Cera Trap** traps with **Cera Trap** bait is dependent on temperature, relative humidity and direct sunlight.

DISCLAIMER:

- Do not apply this product on any crop or situation not mentioned in this label.
- Do not apply this product in combination or tank mixture with any other product or agricultural remedy which is not specifically listed on this label. Intelekt Crop Solutions (Pty) Ltd. accepts no responsibility for any negative effects experienced if the instructions on this label are not adhered to, unless an Intelekt representative was consulted beforehand.

Cera Trap is the registered trademark of **INTELEKT CROP SOLUTIONS (PTY) LTD.**

Cera Trap

Reg. Nr.: L10728

Wet nr. 36 van 1947

'n Gehidroliseerde proteïen produk as Biologiese Oplossing vir gebruik as vrugtevlug lokval vir massa lokval beheer van Mediterreense Vrugtevlug (*Ceratitis capitata*), Natal Vrugtevlug (*Ceratitis rosa*), Marula Vrugtevlug (*Ceratitis cosyra*) en Oosterse Vrugtevlug (*Bactrocera dorsalis*) in gewasse soos aangedui.

AKTIEWE BESTANDEEL

Gehidroliseerde proteïen..... 5.9% (w/v)

Registrasiehouer:

Intelekt Crop Solutions (Edms) Bpk. is 'n vol filiaal van InteliChem (Edms) Bpk., Mpy. Reg. Nr.: 2014/042423/07, Biltonhuis, Blyhoekplaas, Annandale pad, Lynedoch, 7603, Suid-Afrika, Tel: 021 881 8500

BELANGRIKE NOTAS OOR MRL'e:

ONTHOUDINGSPERIODE: 0 DAE.

IN DIE GEVAL VAN GEWASSE BESTEM VIR UITVOER, SAL HIERDIE PRODUK TEN VOLLE KWALIFISEER, INDIEN DIT SOOS PER AANBEVELING OP DIE ETIKET GEBRUIK WORD.

WAARSKUWINGS:

- Hanteer versigtig.
- Stoor in 'n koel, droë plek, weg van voedsel, voer en saad.
- Hou buite bereik van kinders, oningeligte persone en diere.
- **Onthoudingsperiodes:** 0 Dae. Die produk is heeltemal vry van skadelike chemiese plaagdoders.

Alhoewel hierdie middel omvattend getoets was onder 'n groot verskeidenheid toestande kan die registrasiehouer nie waarborg 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, sowel as die metode, tyd en akkuraatheid van toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei en die omgewing of nadelige invloede op mens of dier of vir 'n gebrek aan prestasie van die betrokke middel as gevolg van die versuim van die gebruiker om etiketaanwysings te volg of die ontstaan van toestande wat nie voorsien kon word nie kragtens die registrasie. Raadpleeg die verskaffer in geval van enige onsekerheid.

VOORSORGMAATREËLS:

- Wanneer **Cera Trap** in 'n kombinasie met ander geregistreerde insekdoders gebruik word, verseker dat aan al die "**WAARSKUWINGS**", "**VOORSORGMAATREËLS**", "**GEBRUIKSAANWYSINGS**" en "**AANBEVELINGS**" voldoen word, soos op die etiket van daardie spesifieke insekdoders aangedui is.
- Dra rubberhandskoene / latekshandskoene terwyl die produk hanteer word.
- Was met seep en water na gebruik en na toevallige vel- en oogkontak.
- Was besoedelde klere na gebruik.
- Moenie eet, drink of rook tydens vermenging of toediening van die produk nie.
- Maak toedieningsapparaat skoon na gebruik. Gooi waswater weg waar dit nie gewasse, weiding, riviere, damme en boorgate sal besoedel nie.
- Vernietig die leë houer deur gate daarin maak en plat te druk en daarvan op 'n veilige manier ontslae te raak.
- Moet nooit die leë houer vir enige ander doel gebruik nie.
- Voorkom besoedeling van voedsel, voer, drinkwater en eetgerei.
- Voorkom kontak met vrugte om moontlike skade te voorkom.

METODE VAN WERKING:

Cera Trap is 'n vrugtevlug lokval wat bestaan uit 'n plastiese houer met laterale openinge gevul met 'n gehidroliseerde proteïenlokmiddel, 'n vloeibare voedsellokaas wat veral vroulike vrugtevlug lok. Die **Cera Trap** lokval word in die blaredak van 'n vrugteboom of wingerdstok geplaas. Vrugtevlug sal die **Cera Trap** trap betree en in die **Cera Trap** vloeistof verdrink. **Cera Trap** lokaas word nie as 'n insekdoder beskou nie, maar as 'n nie-

giftige, biologiese beheermiddel wat in 'n geïntegreerde bestuurstelsel gebruik kan word om die teikenpopulasie te onderdruk en skade aan vrugtegewasse te verminder.

GEBRUIKSAANWYSINGS:

Cera Trap is 'n massa-vang stelsel vir die beheer van vrugtevliespesies insluitend *Ceratitis capitata*, *Ceratitis rosa*, *Ceratitis cosyra* en *Bactrocera dorsalis*. **Cera Trap** lokaas is gebaseer op 'n ensiematiese gehidroliseerde proteïenmengsel met 'n hoogs selektiewe lokaksie, wat geen chemiese insekdoders bevat nie, en as 'n nie-giftige biologiese beheermaatreël beskou word. **Cera Trap** kan in 'n geïntegreerde plaagbestuurstelsel gebruik word met behulp van area-wye beheermaatreëls soos lugspatte of steriele insekte tegnologie en sal sodoende omvattende vrugtevliesbeheer verskaf. **Cera Trap** is onskadelik en geensins ontwrigtend vir voordelige insekte en ander geleedpotiges nie. Geen gebruiksbepoering is van toepassing op **Cera Trap** aangesien die lokmiddel nie direk op die gewas toegedien word nie.

Die **Cera Trap** lokvalle bestaan uit drie komponente wat eers aanmekaar geheg moet word voordat dit in die boom gehang word:

- 'n Fles met 'n deksel op. Die fles is gevul met die ensiematiese gehidroliseerde proteïenmengsel (**Cera Trap** lokmiddel) waarvan die deksel verwyder moet word sodat die tregterdeksel daarop aangeskroef kan word;
- 'n Tregterdeksel wat op die fles geskroef moet word;
- 'n Draadhaak wat aan die tregterdeksel geheg word om die lokvalle effektief in die boorde te kan ophang.

MONITERINGS AANBEVELINGS:

- Die vrugtevliespopulasie- en besmettingsvlakke behoort dwarsdeur die vatbare tydperk van die gewas gemoniteer te word.
- Aanbevole moniteringstelsels sluit FF lure en Delta lokvalle (Chempac), Biolure en emmerlokvalle (Chempac), of Capilure- en Questlure lokmiddels vir gebruik in Sensus lokvalle (River Bioscience) in.
- Moniteringslokvalle moet weekliks ondersoek word.
- Monitering van Oosterse Vrugtevlies (*Bactrocera dorsalis*) met ME lure lokmiddel in emmerlokvalle (Chempac) is 'n vereiste vir fitosanitêre registrasie van vrugte vir uitvoer na spesifieke markte. Indien die plaag waargeneem word, moet die toepaslike owerhede in kennis gestel word en alle vatbare kultivars in 'n 25 km² gebied moet behandel word totdat die plaag uitgewis is volgens die riglyne wat deur die Departement van Landbou, Bosbou en Visserye (DAFF) verskaf word.

TOEDIENINGS AANBEVELINGS:

CERA TRAP LOKVALLE:

| GEWAS | TEIKEN | DOSIS PER HEKTAAR | OPMERKINGS |
|--|---|-------------------------------------|--|
| Sitrus, Kern & Steenvrugte en Tafeldruiwe. | Mediterreense vrugtevlies, Natal vrugtevlies, Marula vrugtevlies en Oosterse vrugtevlies. | 50, 75 of 100 lokvalle per hektaar. | Verwys na die dosis aanwysings tabel vir 'n meer spesifieke aanbeveling. |

CERA TRAP LOKMIDDEL:

| GEWAS | TEIKEN | DOSIS PER HEKTAAR | OPMERKINGS |
|--|---|--------------------|--------------------------|
| Sitrus, Kern & Steenvrugte en Tafeldruiwe. | Mediterreense vrugtevlies, Natal vrugtevlies, Marula vrugtevlies en Oosterse vrugtevlies. | 600 ml per lokval. | Hervul elke 8 – 10 weke. |

DOSIS AANWYSING:

| CERA TRAP LOKVALLE / HA | VRUGTEVLIEG DRUK | HISTORIESE VRUGTEVLIEG DRUK | GASHEER PLANTE EN/OF GEWASSE | GEWAS VATBAARHEID |
|----------------------------|---------------------|-----------------------------------|------------------------------------|----------------------|
| 50 | Laag | Laag | Laag | Laag |
| 75 | Medium | Medium | Medium | Medium |
| 100 | Hoog | Hoog | Hoog | Hoog |

- **Cera Trap** is 'n Biologiese Oplossing wat suksesvol in 'n geïntegreerde bestuursprogram teen genoemde teikenplae gebruik kan word.
- **Cera Trap** lokmiddel lok vrugtevlieë van alle spesies, maar hoofsaaklik jong vroulike vlieë.
- **Cera Trap** lokmiddel is die mees doeltreffendste wanneer dit in kombinasie met die oorspronklike **Cera Trap** lokval gebruik word.
- Hang die eerste **Cera Trap** lokvalle sodra die vrugte vatbaar raak vir vrugtevliegbesmetting of so vroeg as 12 weke voor oes, na gelang van die gewas en kultivar.
- Dit is van uiterste belang om geïnfesteerde vrugte gereeld uit boorde voor en tydens oes te verwyder. Daarbenewens behoort alle vrugte na-oes van die bome gepluk te word en uit die boord verwyder word om plaagdruk te verminder.
- **Cera Trap** lokvalle moet aan die noordelike kant van die boom gehang word, op 'n hoogte van ongeveer 1,5 m en binne die blaredak van die boom.
- **Cera Trap** kan in kombinasie met "Male Annihilation Technique (MAT)" vir verbeterde *Bactrocera dorsalis* beheer gebruik word.
- Digtheid van **Cera Trap** lokvalle moet op die grens van boorde verhoog word waar 'n alternatiewe gasheer of bron van vrugtevlieg besmetting moontlik is (sien dosis aanwysingstabel).
- Digtheid van **Cera Trap** lokvalle moet verhoog word vir gewasse met hoë vatbaarheid (sien dosis aanwysing tabel).
- Digtheid van **Cera Trap** lokvalle moet verhoog word waar 'n hoë vrugtevliegpopulasie bestaan (sien dosis aanwysingstabel). In die geval van ernstige skade, word addisionele lug- of grondspatte met 'n geskikte insekdoder aanbeveel.
- Om oorwinterende vrugtevliegpopulasies te verminder, moet lokvalle weer met **Cera Trap** lokmiddel na oes opgevol word.
- **Cera Trap** lokvalle moet met **Cera Trap** lokmiddel tot 'n maksimum van 600 ml opgevol word voordat die vloeistof heeltemal verdamp.
- **Cera Trap** lokvalle kan in die boord tot die volgende seisoen se hervul gelos word of dit kan verwyder en gestoor word vir gebruik in die volgende seisoen.
- Tydperk voor die hervul van **Cera Trap** lokvalle, sal van die temperatuur, relatiewe humiditeit en direkte sonlig afhang.

VRYWARING:

- Moenie hierdie produk op enige gewas of in enige situasie gebruik wat nie op hierdie etiket genoem word nie.
- Moenie hierdie produk in kombinasie of in 'n tenkmengsel met enige ander produk of landboumiddel gebruik wat nie spesifiek op hierdie etiket gelys is nie. Intellect Crop Solutions (Edms) Bpk. aanvaar geen verantwoordelikheid vir enige negatiewe gevolge wat ervaar word indien die instruksies op die etiket nie nagekom word nie, tensy 'n Intellect verteenwoordiger vooraf geraadpleeg is nie.

Cera Trap is die geregistreerde handelsmerk van **INTELEKT CROP SOLUTIONS (EDMS) BPK.**