

BEFORE USING THIS PRODUCT, READ THE LABEL CAREFULLY

BioControl



Cera Trap[®]



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 proteienprodukt as biologiese oplossing vir gebruik as vrugtevlieglokval vir massavangs-beheer van Mediterreense Vrugtevlieg, Natalse Vrugtevlieg, Marula Vrugtevlieg en Oosterse Vrugtevlieg (*Bactrocera dorsalis*) in sitrus, tafeldruwe, kern- en steenvrugte.

FRUIT FLY BAIT AND TRAP

VRUGTEVLIEG LOKAAS EN LOKVAL

ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL

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

1: 30/09/2019

20 l

Bioiberica

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InteliBio
solutions

UN Number: NR



DIRECTIONS FOR USE ENCLOSED

Batch Number

Date of manufacture

REFER TO DETAILS AS PRINTED

ON CONTAINER / BAG

GEBRUIKSAANWYSINGS INGESLUIT

VERWYS NA BESONDERHEDE

SOOS OP HOUER / SAK GEDRUK

Lotnummer

Datum van vervaardiging

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.

CeraTrap®

Reg. No.: L 10728, 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 (*Ceratitidis capitata*), Natal Fruit fly (*Ceratitidis rosa*), Marula Fruit fly (*Ceratitidis 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
Kathrein Wine Estate, Annandale Road, Lynedoch, 7603, South Africa, Tel: +27 21 881 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, feed 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 **CeraTrap®** 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:

CeraTrap® 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 **CeraTrap®** trap is placed in the canopy of a fruit tree or vine. Fruit flies will enter the **CeraTrap®** trap and drown in the **CeraTrap®** bait. **CeraTrap®** 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:

CeraTrap® is a mass-trapping system for control of pestiferous fruit fly species including *Ceratitis capitata*, *Ceratitis rosa*, *Ceratitis cosyra* and *Bactrocera dorsalis*. **CeraTrap®** 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, **CeraTrap®** provides comprehensive fruit fly control. **CeraTrap®** is neither harmful nor disruptive to beneficial insects and other arthropods. No use-restriction applies to **CeraTrap®** as the **CeraTrap®** bait is not directly applied onto the crop.

The **CeraTrap®** 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 and/or vineyards.

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:

CeraTrap® 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	100 Traps per hectare	Refer to positioning diagram of CeraTrap® .

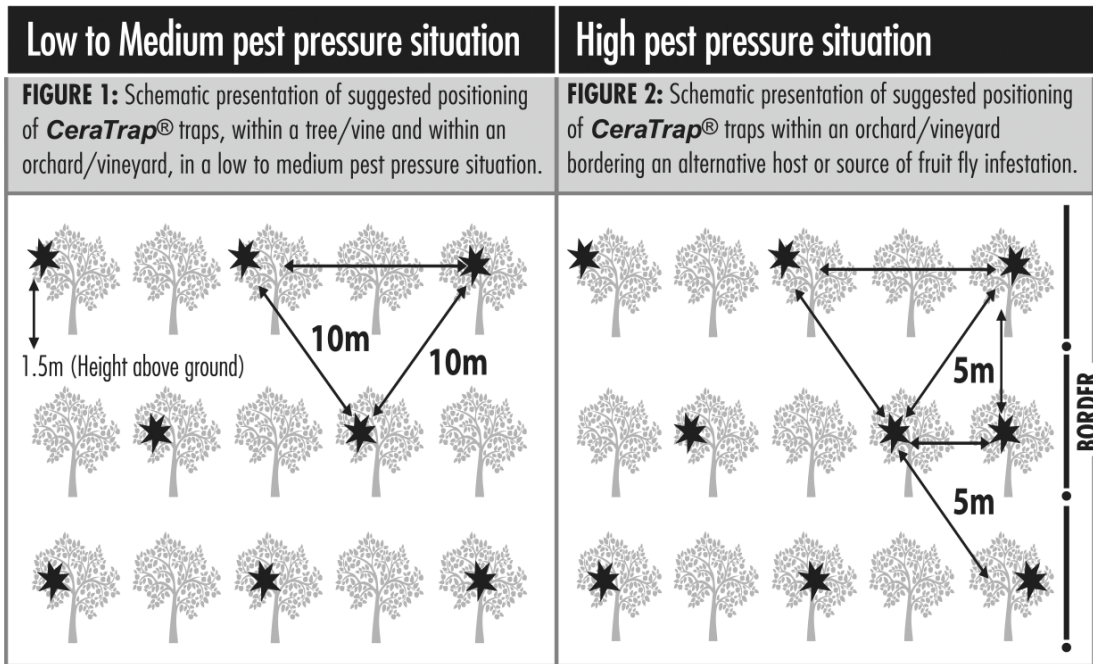
CeraTrap® BAIT:

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.

NOTES:

- **CeraTrap®** is a biological solution which could successfully be used in an integrated pest management programme against listed target pests.
- **CeraTrap®** bait attracts fruit flies of all species, predominantly females.
- **CeraTrap®** bait is most effective when used in combination with the original **CeraTrap®** trap.
- Hang the first **CeraTrap®** 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.
- **CeraTrap®** 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.
- **CeraTrap®** could be used in combination with Male Annihilation Technique (MAT) for improved *Bactrocera dorsalis* control.
- Density of **CeraTrap®** traps should be increased on perimeter of orchards bordering an alternative host or source of fruit fly invasion.
- 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 **CeraTrap®** bait after harvest.
- **CeraTrap®** traps should be refilled with **CeraTrap®** bait up to a maximum of 600 mℓ before total evaporation occurs.
- **CeraTrap®** traps can be left in the orchard / vineyard to be refilled the following season or removed and stored until such time.
- Refilling intervals of **CeraTrap®** traps with **CeraTrap®** bait is dependent on temperature, relative humidity and direct sunlight.

Positioning diagrams for *CeraTrap*®



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 a representative was consulted beforehand.

***CeraTrap*®** is the registered trademark of
INTELEKT CROP SOLUTIONS (PTY) LTD.

CeraTrap®

Reg. Nr.: L 10728, Wet nr. 36 van 1947

'n Gehidroliseerde proteïenprodukt as biologiese oplossing vir gebruik as vrugtevlieglokval vir massalokval-beheer van Mediterreense Vrugtevlieg (*Ceratitis capitata*), Natalse Vrugtevlieg (*Ceratitis rosa*), Marula Vrugtevlieg (*Ceratitis cosyra*) en Oosterse Vrugtevlieg (*Bactrocera dorsalis*) in gewasse soos aangedui.

AKTIEWE BESTANDEEL

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

Registrasiehouer:

Intelekt Crop Solutions (Edms.) Bpk. is 'n volfiliaal van InteliChem (Edms.) Bpk., Mpy. Reg. Nr.: 2014/042423/07

Kathrein Wynlandgoed, Annandalepad, Lynedoch, 7603, Suid-Afrika, Tel: +27 21 881 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.

VOORSORGMATREËLS:

- Wanneer **CeraTrap®** in 'n kombinasie met ander geregistreerde insekdoders gebruik word, verseker dat aan al die "**WAARSKUWINGS**", "**VOORSORGMATREËLS**", "**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:

CeraTrap® is 'n vrugtevlieglokval wat bestaan uit 'n plastiese houer met laterale openinge gevul met 'n gehidroliseerde proteïenlokmiddel, 'n vloeibare voedsellokaas, wat veral wyfie vrugtevlieë lok. Die **CeraTrap**® lokval word in die blaredak van 'n vrugteboom of wingerdstok geplaas. Vrugtevlieë sal die **CeraTrap**® lokval betree en in die **CeraTrap**® lokaas verdrink. **CeraTrap**® 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:

CeraTrap® is 'n massavang-stelsel vir die beheer van vrugtevliegspesies insluitend *Ceratitidis capitata*, *Ceratitidis rosa*, *Ceratitidis cosyra* en *Bactrocera dorsalis*. **CeraTrap**® 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. **CeraTrap**® kan in 'n geïntegreerde plaagbestuurstelsel gebruik word met behulp van area-wye beheermaatreëls soos lugspatte of steriele insekte tegnologie en sal sodoende omvattende vrugtevliegbeheer verskaf. **CeraTrap**® is onskadelik en geensins ontwrigtend vir voordelige insekte en ander geledpotiges nie. Geen gebruiksbepanking is van toepassing op **CeraTrap**® aangesien die lokmiddel nie direk op die gewas toegedien word nie.

Die **CeraTrap**® 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 (**CeraTrap**® 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 en/of wingerde te kan ophang.

MONITERINGS AANBEVELINGS:

- Die vrugtevliegpopulasie- 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 Vrugtevlieg (*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:**CeraTrap® LOKVALLE:**

GEWAS	TEIKEN	DOSIS PER HEKTAAR	OPMERKINGS
Sitrus, Kern- & Steenvrugte en Tafeldruiwe	Mediterreense vrugtevlieg, Natalse vrugtevlieg, Marula vrugtevlieg en Oosterse vrugtevlieg	100 lokvalle per hektaar	Verwys na die posisioneringsdiagram van CeraTrap® -lokvalle.

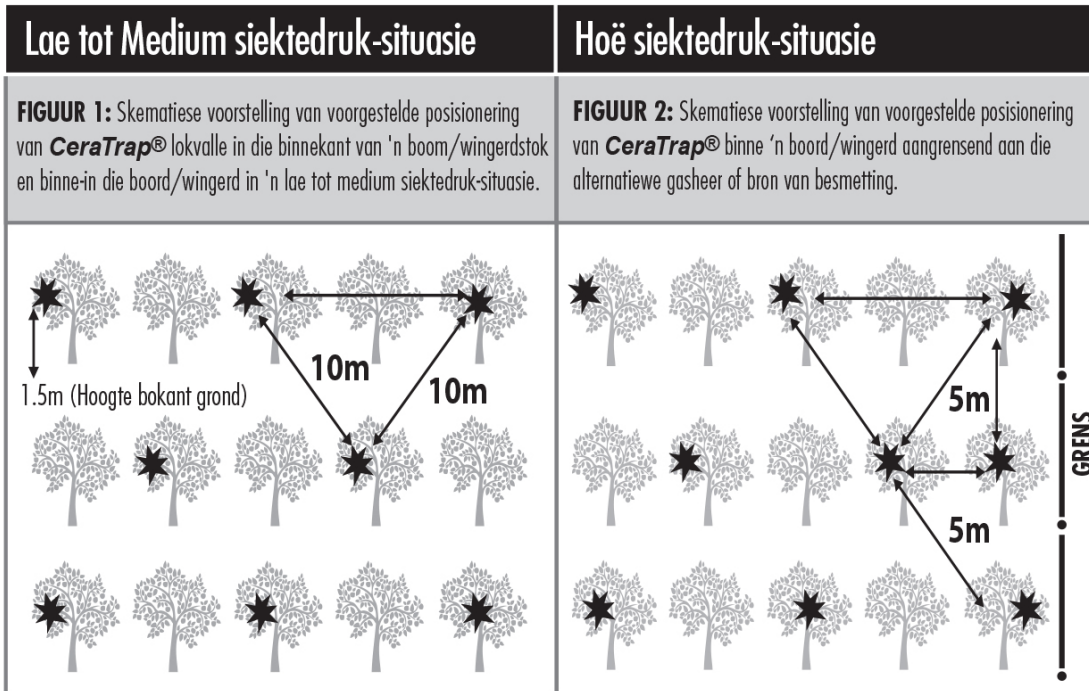
CeraTrap® LOKMIDDEL:

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

NOTAS:

- **CeraTrap®** is 'n biologiese oplossing wat suksesvol in 'n geïntegreerde bestuursprogram teen genoemde teikenplae gebruik kan word.
- **CeraTrap®** lokmiddel lok vrugtevlieë van alle spesies, maar hoofsaaklik wyfie vlieë.
- **CeraTrap®** lokmiddel is die mees doeltreffendste wanneer dit in kombinasie met die oorspronklike **CeraTrap®** lokval gebruik word.
- Hang die eerste **CeraTrap®** 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 besmette 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.
- **CeraTrap®** 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.
- **CeraTrap®** kan in kombinasie met "Male Annihilation Technique (MAT)" vir verbeterde *Bactrocera dorsalis* beheer gebruik word.
- Digtheid van **CeraTrap®** lokvalle moet op die grens van boorde verhoog word waar 'n alternatiewe gasheer of bron van vrugtevliegbesmetting moontlik is.
- In die geval van ernstige skade, word addisionele lug- of grondspatte met 'n geskikte insekdoder aanbeveel.
- Om oorwinterende vrugtevliepopulasies te verminder, moet lokvalle weer met **CeraTrap®** lokmiddel na oes opgevolg word.
- **CeraTrap®** lokvalle moet met **CeraTrap®** lokmiddel tot 'n maksimum van 600 ml opgevolg word voordat die vloeistof heeltemal verdamp.
- **CeraTrap®** lokvalle kan in die boord / wingerd 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 **CeraTrap®** lokvalle, sal van die temperatuur, relatiewe humiditeit en direkte sonlig afhang.

Posisioneringsdiagramme van *CeraTrap*®



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. Intelekt 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 verteenwoordiger vooraf geraadpleeg is nie.

***CeraTrap*®** is die geregistreerde handelsmerk van
INTELEKT CROP SOLUTIONS (Edms.) Bpk.