



# Alion®

SEE ENCLOSED PAMPHLET FOR FULL PARTICULARS

SIEN INGESLOTE PAMFLET VIR VOLLEDIGE BESONDERHEDE

Reg. No. L10176 (Act No. 36 of 1947)

Reg. Nr. L10176 (Wet Nr. 36 van 1947)

**A pre-emergence suspension concentrate herbicide with long residual activity for the control of certain broadleaved and grass weeds in citrus, and apples.**

**'n Vooropkoms suspensie konsentraat onkruidodder met lang nawerking vir die beheer van sekere breëblaar- en grasonkruid in sitrus en appels.**

HERBICIDE GROUP CODE L29 ONKRUIDDODER GROEPEKODE

**Active ingredient:**

Indaziflam (Alkylazine)..... 500 g/l

**Aktiewe bestanddeel:**

Indaziflam (Alkylazine)..... 500 g/l

**REGISTERED BY / GEREGISTREER DEUR:**

Bayer (Pty) Ltd / (Edms) Bpk  
Reg. 1968/011192/07  
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**IN CASE OF POISONING PLEASE PHONE / IN GEVAL VAN VERGIFTIGING SKAKEL: 0861 555 777**

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BATCH NUMBER: See on pack  
LOTNOMMER:

DATE OF MANUFACTURE: Sien op houer  
DATUM VERVAARDIG:

**Bayer**

RSA/0517/Alion 250ml/Booklet Label  
84487937D - South Africa



# Alion®

## Herbicide

A pre-emergence suspension concentrate herbicide with long residual activity for the control of certain broadleaved and grass weeds in citrus, and apples.

contains:  
Indaziflam (Alkylazine)

**Packaging / Verpakking:**  
**250 ml**



**CAUTION  
VERSIGTIG**



# Onkruidodder



## **WAARSKUWINGS:**

**SITRUS: MOENIE OES BINNE 62 DAE NA TOEDIENING NIE.**

**APPELS: MOENIE OES BINNE 108 DAE NA TOEDIENING NIE.**

Hanteer versigtig.

Berg in 'n koel plek, weg van voedsel, voer, saad of enige ander landboumiddels.

Hou buite bereik van kinders, oningeligte persone en diere.

Giftig wanneer ingesluk. Voorkom kontak met oë, vel en klere.

Mag skade aan organe (senuweestelsel) deur aanhoudende of herhaalde blootstelling veroorsaak.

Baie giftig vir water organismes met langdurige uitwerking.

**HERBETREDING:** Moenie behandelde gebied binne een dag na toediening binnegaan nie, tensy beskermende oorklere gedra word.

**Alion** is op die meeste belangrike kultivars getoets en geen betekenisvolle simptome van fitotoksiteit in die vorm van oesverlagings het onder normale groeitoestande voorgekom nie. Moet nie **Alion** toedien op gewasse wat skade simptome van vorige onkruidodder toedienings vertoon nie.

**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 ONKRUIDE TEEN DIE BETROKKE MIDDEL SOEL AS DIE METODE, TYD EN AKKURATHEID 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 DIE TOESTANDE WAT NIE KRAGTENS DIE REGISTRASIE VOORSIEN KON WORD NIE. RAADPLEEG DIE VERSKAFFER IN DIE GEVAL VAN ENIGE ONSEKERHEID.**

## **VOORSORGMAATREËLS:**

Moet nie stof, dampe, gas, mis, walms van bespuitings in asem nie.

Dra beskermende klere (oorpak, stewels, rubberhandskoene) wanneer die produk hanteer of toegedien word.

Was met seep en water onmiddellik na gebruik of toevallige velkontak.

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

Was besoedelde klere daaglik.

Voorkom die oorwaai van spuitstof na ander gewasse, plantegroei, weiding, en areas wat nie onder behandeling is nie, insluitend gewasse en boorde wat gelys op hierdie etiket, wat op grond aangrensend aan die gedeelte wat behandel word geplant is, sowel as riviere en damme.

Voorkom oorvleueling van spuitbane.

Maak spuitapparaat onmiddellik na gebruik skoon, raak ontslae van uitspoelwater waar dit nie gewasse, weiding, riviere en damme kan besoedel nie. Die spuittoerusting moet deeglik skoongemaak word om besoedeling van toekomstige toedienings te voorkom.

Spoel leë houer drie keer uit met 'n volume water gelyk aan ten minste een tiende van die houer en voeg die uitspoelwater by die inhoud van die spuiten voordat van die houer op die voorgeskrewe metode ontslae geraak word.

Vernietig leë houer deur gate daarin te maak en plat te slaan. Moet vir geen ander doel weer gebruik nie.

Voorkom besoedeling van voedsel, voer, drinkwater en eetgerei.

Moet nie toerusting uitspuit, dreineer of uitspoel op of naby gewenste bome of plante of waar hul wortels mag voorkom nie.

Water wat gebruik is vir die skoonmaak van toerusting moet nie toegelaat word om nie-behandelde gebiede te besoedel nie.

## **GEBRUIKSBEPERKINGS:**

1. Moenie **Alion** in sitrus en appels binne 3 jaar na plant toedien nie. Voorkom die behandeling van ingeplante stokkies of bome in gevestigde boorde.
2. Moenie **Alion** 1 jaar voor die herbeplanting van 'n boord toedien nie.
3. Moenie **Alion** in kwekerie toedien nie.
4. Vermoedige oorvleueling van spuit wydtes en dubbel bespuitings.
5. Vermoedige sputnewel of wegdryf van spuitmiddel op die blare van die gewas.
6. Moet nie naby gewenste plante of bome (soos windbreke in boorde of wingerde) of op grondoppervlaktes waar hul wortels mag wees, toedien nie.
7. Moet nie in areas waar die middel na gewenste plante of bome se wortels kan beweeg of gespoel kan word, toedien nie.
8. Moenie op grond gebruik waar binne afsienbare tyd gevoelige gewasse of plante geplant gaan word nie.
9. Enige ander gebruik buite die aanbevelings op hierdie etiket mag skade aan die gewas veroorsaak.
10. **Alion** is slegs 'n vooropkoms onkruidodder. Reeds ontkiemde onkruid moet daarom beheer word met 'n geregistreerde na-opkoms onkruidodder (soos **Basta**).
11. Moenie meer as 200 ml/ha **Alion** per seisoen toedien nie.
12. Moenie **Alion** toedien waar oormatige plantreste of deklaag op die grond oppervlak teenwoordig is nie.
13. Moenie **Alion** toedien op gronde wat meer as 20 % gruis bevat nie.
14. Moenie **Alion** deur enige besproeiingstelsel toedien nie.
15. **Alion** kan nie gebruik word onder omstandighede waar fosforsuur op die gewas toegedien word nie (beide as grond sowel as blaartoediening).

## **WEERSTANDSWAARSKUWING:**

**Alion** (Indaziflam) behoort aan die Alkylazine groep van onkruidodders. Indaziflam is 'n Sellulose Biosintese Inhibeerder en is as 'n Groepkode L29 onkruidodder deur HRAC geklassifiseer. Dit inhibeer kristallyne sellulose afsetting in die plant selwand. Hierdie aksie het 'n ernstige invloed op selwand vorming sowel as verlenging en verdeling van selle. Gevolglik word slegs aktief groeiende meristematiese wortel- en stamweefsel beïnvloed, vandaar sterf ontkiemende onkruid saad voor opkoms. Enige onkruid populasie mag plante insluit of ontwikkel wat 'n natuurlike weerstand teen Indaziflam of enige ander Groepkode L29 onkruidodder het. Indien hierdie onkruidodders herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die onkruidpopulasie oorheers. Hierdie weerstandbiedende onkruid sal moontlik nie deur **Alion** of enige ander Groepkode L29 onkruidodder, beheer word nie.

# Onkruidodder

Aangesien die voorkoms van weerstandbiedende onkruid moeilik is om te bepaal voor onkruidodertoediening, is dit uiters noodsaaklik dat behandelde gebiede tydig met gereelde intervalle ondersoek word om weerstand vroegtydig te identifiseer. Bayer (Edms.) Bpk. sal nie verantwoordelikheid aanvaar vir enige gebrek aan prestasie in die geval van die opbou van weerstand in die onkruidpopulasie as gevolg van onvoldoende onkruidbestandheidsbestuur soos aangedui op die etiket nie.

Om weerstand teen onkruidodders te vertraag:

- Verminder die eksklusiewe, herhaaldelike gebruik van onkruidodders in dieselfde onkruidodder groeikode.
- Wissel af met produkte van verskillende onkruidodder groeikodes.
- Integreer ander beheermaatreëls (chemies, verbouing, ens.) in onkruidbeheerprogramme.
- Enige hergroei van behandelde onkruid moet met 'n kolbespuiting van 'n geregistreerde na-opkoms onkruidodder behandel word voordat die hergroei gevestig raak en die onkruid blom.

Vir spesifieke inligting oor weerstandsbestuur, kontak u naaste Bayer verteenwoordiger.

**GEBRUIKSAANWYSINGS:** GEBRUIK SLEGS SOOS AANGEDUI

## VERENIGBAARHEID:

**Alion** is verenigbaar met **Basta** (Reg. Nr. L4872). Aangesien die kwaliteit van die water van plaas tot plaas kan varieer moet 'n fisiese verenigbaarheidstoets altyd uitgevoer word voor die bespuiting.

## MENG- EN TOEDIENINGSINSTRUKSIES:

1. Maak die spuitenk halfvol met water.
2. Meng die vereiste hoeveelheid **Alion** met skoon water voor dit in tenk gevoeg word.
3. Hou die mengsel voortdurend in suspensie deur middel van roering en gebruik die spuitmengsel binne 6 uur na vermenging.
4. Dien toe met korrekte gekalibreerde spuittoerusting wat die benodigde hoeveelheid egalig oor die area wat behandel moet word sal versprei, teen 'n minimum spuitvolume van 200 l/ha. Gebruik spuitpunte wat growwe druppels lewer om spuitneweloorwaaiing te verminder. Goeie resultate word verkry deur platwaaier of dubbel-uitlaat platwaaier (Twin Jet) spuitpunte te gebruik. Waar daar 'n risiko is van oorwaaiing, word spesiale spuitpunte wat ontwerp vir die vermindering van oorwaaiing, aanbeveel.
5. Verseker eweredige bedekking van die grondoppervlak en die onkruidblare wanneer toegedien word in 'n tenkmengsel met **Basta**.

## Gerigte of Strooktoedienings:

**Alion** moet toegedien word as 'n gerigte strookbespuiting op die area onder die bome waar die onkruid beheer wil word. Vir sulke strookbehandelings van **Alion** sal proporsioneel minder produk sowel as toedieningswater per hektaar benodig word vergeleke met 'n algemene oppervlak toediening.

## TOEDIENINGSTABEL:

### SOMER-REËNVALGEBIED

GEWAS	DOSIS PER HEKTAAR	OPMERKINGS
<b>SITRUS</b> (ouer as drie jaar)	<b>Alion</b> teen 200 ml/behandelde hektaar (200 ml/10,000 m <sup>2</sup> ) - verwys "Strook toedienings"	Dien <b>Alion</b> op onkruidvrye grond aan die begin van die reënseisoen toe. Indien onkruid aanwesig is ten tye van <b>Alion</b> toediening, moet dit of voorafgegaan word of gemeng word met 'n geskikte geregistreerde na-opkoms onkruidodder (soos bv. <b>Basta</b> ) om sodoende die bestaande onkruid te dood. Die area kan ook meganiese skoongemaak word voor die toediening van <b>Alion</b> .



### WINTER-REËNVALGEBIED

GEWAS	DOSIS PER HEKTAAR	OPMERKINGS
<b>SITRUS APPELS</b> (ouer as drie jaar)	<b>Alion</b> teen 100 tot 150 ml/behandelde hektaar (100 tot 150 ml/10,000 m <sup>2</sup> ) – verwys "Strook toedienings"  Gebruik die laer dosis wanneer beheer van 6 maande verlang word en die hoër dosis vir langer tydperke van beheer.	Dien <b>Alion</b> oop onkruidvrye grond aan die begin van die reënseisoen toe. Indien onkruid aanwesig is ten tye van <b>Alion</b> toediening, moet dit of voorafgegaan word of gemeng word met 'n geskikte geregistreerde na-opkoms onkruidodder (soos bv. <b>Basta</b> ) om sodoende die bestaande onkruid te dood. Die area kan ook meganiese skoongemaak word voor die toediening van <b>Alion</b> .

### BREËBLAAR ONKRUIDE WAT BEHEER WORD:

<i>Ageratum conyzoides</i>	Flox
<i>Amaranthus hybridus</i>	Misbredie
<i>Bidens pilosa</i>	Gewone Knapsekereel
<i>Chenopodium album</i>	Withondebossie
<i>Conyza</i> spp. ( <i>Erigeron bonariensis</i> )	Skraalhans
<i>Euphorbia hirta</i>	Rooi Euphorbia
<i>Erodium moschatum</i>	Turksnael
<i>Plantago lanceolata</i>	Smalblaar plantago
<i>Raphanus raphanistrum</i>	Ramenas
<i>Richardia brasiliensis</i>	Mexikaanse Richardia
<i>Sonchus oleraceus</i>	Sydissel
<i>Stellaria media</i>	Sterremuur

# Onkruidodder

## GRAS ONKRUIDE WAT BEHEER WORD:

<i>Avena fatua</i>	Wildehawer
<i>Chloris virgata</i>	Witpluim-chloris
<i>Commelina benghalensis</i>	Wandelende Jood
<i>Digitaria sanguinalis</i>	Kruisingergras
<i>Eleusine coracana</i>	Jongosgras
<i>Eragrostis</i> spp.	Eragrostis
<i>Lolium</i> spp.	Raaigras
<i>Tragus racemosus</i>	Grootwortelsaadgras

## NOTAS:

1. **Alion** word geaktiveer deur vog en die beste onkruidbeheer word verkry wanneer dit toegedien word op klam grond gevolg deur 15 mm reën of besproeiing na toediening.
2. **Alion** is 'n voor-opkoms onkruidodder en sal slegs onkruid wat nog nie ontkiem het ten tye van toediening beheer. Indien daar onkruid teenwoordig is, kan dit 'n nadelige uitwerking op die doeltreffendheid van **Alion** hê indien hierdie onkruid nie chemies of meganies goed beheer is nie.
3. Ander onkruid spesies wat nie in ontwikkelingsproewe teenwoordig was nie, mag ook deur **Alion** beheer word maar Bayer (Edms.) Bpk. aanvaar egter aanspreeklikheid ten opsigte van die vlak van beheer van ongelyste onkruid nie.
4. **Alion** moet toegedien word as 'n gerigte bespuiting en kontak van die spuitmengsel met die blare of vrugte van die gewas moet so ver as moontlik vermy word. Indien kontak met die blare van die gewas wel sou plaasvind, mag **Alion** chlorose/nekrose van die blare veroorsaak. Hierdie simptome is tydelik van aard en sal daarom nie die opbrengs nadelig beïnvloed nie.

**Basta**® is die geregistreerde handelsmerk van die Bayer Groep.

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# Herbicide

## **WARNINGS:**

**CITRUS: DO NOT HARVEST WITHIN 62 DAYS OF APPLICATION.**

**APPLES: DO NOT HARVEST WITHIN 108 DAYS OF APPLICATION.**

Handle with care.

Store in a cool place away from food, feed, seed and other agricultural remedies.

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

Harmful if swallowed. Avoid contact with eyes, skin or clothing.

May cause damage to organs (nervous system) through prolonged or repeated exposure.

Very toxic to aquatic life with long-lasting effects.

**RE-ENTRY:** Do not enter treated area within one day after treatment unless wearing protective clothing.

**Alion** has been tested on most important cultivars and no significant phytotoxicity in the form of yield reduction has been recorded under normal growing conditions. Do not apply **Alion** to crops that exhibit injury from previous herbicide applications.

**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 WEEDS 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 breathe dust, fume, gas, mist, vapours from sprays.

Wear protective clothing (overall, boots, rubber gloves) when handling or applying the product.

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

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

Wash contaminated clothing daily.

Avoid spray drift onto other crops, desirable vegetation, grazing, and areas not under treatment, including row and tree crops listed on this label on land adjacent to area being treated as well as rivers and dams.

Prevent overlapping of the spray swaths.

Clean applicator immediately after use, dispose of wash water where it will not contaminate crops, grazing, rivers and dams. The spray equipment must be cleaned thoroughly to prevent contamination of subsequent applications.

Rinse empty container three times with a volume water equal to at least one tenth of that of the container and add the rinsing to the contents of the spray tank before disposing of the container in the prescribed manner.

Destroy empty container by perforation and flattening and never use for any other purpose.

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

Do not spray, drain or flush equipment on or near desirable trees or plants or where their roots may extend. Water used for cleaning must not be allowed to contaminate untreated areas.



## **USE RESTRICTIONS:**

1. Do not apply **Alion** to citrus and apples within three years after transplant. Avoid treatment of young interplants in established orchards.
2. Do not apply **Alion** for at least 1 season prior to replanting an orchard.
3. Do not apply **Alion** in nurseries.
4. Avoid excessive overlapping of spray swaths and double spraying.
5. Prevent spray mist or drift onto the foliage of the crop.
6. Do not apply near desirable plants or trees (such as wind breaks in orchards or vineyards) or to areas where their roots may extend to.
7. Do not apply in areas where the chemical may be washed or moved into contact with the roots of desirable plants.
8. Do not use on soil where susceptible crops or any susceptible plants are to be grown in the foreseeable future.
9. Any other use not in accordance with the directions on this label may cause crop damage.
10. **Alion** is a pre-emergence herbicide only. Already emerged weeds should therefore be controlled by using a registered post-emergence herbicide (such as **Basta**).
11. Do not apply **Alion** at more than 200 ml/ha per season.
12. Do not apply **Alion** where excessive debris or mulch is present on the soil surface.
13. Do not use **Alion** on soils with more than 20 % gravel content.
14. Do not apply **Alion** through any type of irrigation system.
15. **Alion** cannot be used under circumstances where phosphoric acid is being applied to the crop (either soil or foliar).

## **RESISTANCE WARNING:**

**Alion** (Indaziflam) belongs to the Alkylazine group of herbicides. Indaziflam is a Cellulose Biosynthesis Inhibitor, and is classified as a Group Code L29 herbicide by HRAC. It inhibits crystalline cellulose deposition in the plant cell wall. This action severely affects cell wall formation as well as cell elongation and division. Consequently only actively growing meristematic root and shoot tissues will be affected, hence germinating weed seeds die before emerging. Any weed population may contain or develop plants naturally resistant to Indaziflam and other Group Code L29 herbicide. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **Alion** or any other Group Code L29 herbicide.



# Onkruiddoder

Since the presence of resistant weeds is difficult to detect prior to herbicide application, it is of the utmost importance that treated areas are timeously inspected at regular intervals to identify the occurrence of herbicide resistant weeds. Bayer (Pty) Ltd. will not accept liability for performance failures in the event of a build-up of resistant weeds resulting from inadequate resistance management practices as indicated on the label.

To delay herbicide resistance:

- Avoid exclusive, repeated use of herbicides from the same herbicide Group Code.
- Alternate with products from different herbicide Group Codes.
- Integrate other control methods [chemical, cultural, etc.] in weed control programmes.
- Any weed regrowth should be spot sprayed with a registered post-emergence herbicide before it becomes well developed and flowers.

For specific information on resistance management contact your local Bayer representative.

**DIRECTIONS FOR USE:** USE ONLY AS DIRECTED

#### COMPATIBILITY:

**Alion** is compatible with **Basta** (Reg. No. L4872). Since the quality of water may vary from farm to farm a physical compatibility test should always be carried out prior to application.

#### MIXING AND APPLICATION INSTRUCTIONS:

1. Half fill the spray tank with water.
2. Mix the required amount of **Alion** with a little clean water before adding to the spray tank.
3. Keep the mixture in continuous suspension by means of agitation and use the spray mixture within 6 hours after mixing.
4. Apply with correctly calibrated equipment which will distribute the required amount evenly over the area to be treated in a spray volume of at least 200 l/ha. Use a coarse spray droplet as to reduce drift. Good results are obtained using flat-fan or double outlet flat fan (Twin Jet) spray nozzles to ensure even spray distribution. However, where there is a danger of drift onto susceptible plant tissue, drift reducing type nozzles or equivalent is recommended.
5. Ensure even coverage of the soil surface and the weed foliage when applied in a tankmix with **Basta**.

#### Directed (Band) Applications:

**Alion** should be applied as a directed band spray to the area under the trees where the weeds need to be controlled. For such band applications of **Alion**, proportionately less product and spray water per hectare will be required versus a broadcast overall application.

#### APPLICATION TABLE:

##### SUMMER RAINFALL AREA

CROP	APPLICATION RATE PER HECTARE	REMARKS
<b>CITRUS</b> (older than three years)	<b>Alion</b> at 200 m <sup>l</sup> /treated hectare (200 m <sup>l</sup> /10,000 m <sup>2</sup> ) - refer "Band applications"	Apply <b>Alion</b> at the start of the rainy season to a weed free soil. Where <b>Alion</b> is applied to established weeds, it must either be preceded or tank mixed with an appropriate registered post-emergence contact herbicide (such as <b>Basta</b> ) to kill the existing weeds or the area should be cleaned by mechanical means prior to the application of <b>Alion</b> .



##### WINTER RAINFALL AREA

CROP	APPLICATION RATE PER HECTARE	REMARKS
<b>CITRUS APPLES</b> (older than three years)	<b>Alion</b> at 100 to 150 m <sup>l</sup> /treated hectare (100 to 150 m <sup>l</sup> /10,000 m <sup>2</sup> ) – refer "Band applications"  Use the lower rate where control is required for up to 6 months and the higher rate when a longer period of control is required.	Apply <b>Alion</b> at the start of the rainy season to a weed free soil. Where <b>Alion</b> is applied to established weeds, it must either be preceded or tank mixed with an appropriate registered post-emergence contact herbicide (such as <b>Basta</b> ) to kill the existing weeds or the area should be cleaned by mechanical means prior to the application of <b>Alion</b>

##### BROADLEAVED WEEDS CONTROLLED:

<i>Ageratum conyzoides</i>	Flossflower
<i>Amaranthus hybridus</i>	Hybrid pigweeds
<i>Bidens pilosa</i>	Common blackjack
<i>Chenopodium album</i>	White Goosefoot
<i>Conyza</i> spp. ( <i>Erigeron bonariensis</i> )	Fleabane
<i>Euphorbia hirta</i>	Red Euphorbia
<i>Erodium moschatum</i>	Musk heron's bill
<i>Plantago lanceolata</i>	Narrow leaved Plantain
<i>Raphanus raphanistrum</i>	Wild radish
<i>Richardia brasiliensis</i>	Mexican Richardia
<i>Sonchus oleraceus</i>	Common Sow-thistle
<i>Stellaria media</i>	Common chickweed

# Herbicide

## GRASS WEEDS CONTROLLED:

<i>Avena fatua</i>	Common wild oats
<i>Chloris virgata</i>	Feathertop chloris
<i>Commelina benghalensis</i>	Wandering Jew
<i>Digitaria sanguinalis</i>	Hairy finger grass
<i>Eleusine coracana</i>	Goose grass
<i>Eragrostis</i> spp.	Love grass
<i>Lolium</i> spp.	Rye grass
<i>Tragus racemosus</i>	Carrot seed grass

## NOTES:

1. **Alion** is activated by moisture and best weed control is achieved when applied to moist soil followed by  $\pm$  15 mm rainfall or irrigation after application.
2. **Alion** is a pre-emergence herbicide and will only control weeds that have not germinated at the time of application. If existing weeds are present, these may have a detrimental effect on the efficacy of **Alion** if not chemically or mechanically well controlled.
3. Other weed species that were not present in development trials may also be controlled by **Alion** however, Bayer (Pty) Ltd. does not accept any liability in respect of the level of control of unlisted weeds.
4. **Alion** should be applied as a directed spray and contact of the spray mixture with the foliage or fruit of the crop should be avoided as far as possible. If contact with the leaves of the crop should occur, **Alion** may cause chlorosis/necrosis but these symptoms are of a transitory nature and will therefore not adversely affect the yield.

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