



**resolve**<sup>®</sup>  
with **photo-X**<sup>®</sup> technology

**15 l**

## Herbicide

A safened emulsifiable concentrate herbicide for the selective control of certain broadleaf weeds in wheat and barley.

**contains:**

Pyrasulfotole (Pyrazole)  
Bromoxynil (Nitrile)  
(heptanoate and octanoate esters)  
Mefenpyr di-ethyl (Safener)



RSA/0225/Resolve 15L/Sales Panel  
Code: ZA86215446C

# resolve<sup>®</sup>

with photo-X<sup>®</sup> technology

SEE ENCLOSED PAMPHLET FOR FULL PARTICULARS

Reg. No. L8708 (Act No. 36 of 1947)  
Namibian Reg. No. N-AR 1571

A safened emulsifiable concentrate herbicide for the selective control of certain broadleaf weeds in wheat and barley.

SIEN INGESLOTE PAMFLET VIR VOLLEDIGE BESONDERHEDE

Reg. Nr. L8708 (Wet Nr. 36 van 1947)  
Namibiese Reg. Nr. N-AR 1571

'n Beveiligde emulgeerbare konsentraat onkruidodder vir die selektiewe beheer van sekere breëblaaronkruid in koring en gars.

|               |                |                          |
|---------------|----------------|--------------------------|
| GROUP / GROEP | F <sub>2</sub> | HERBICIDE / ONKRUIDDODER |
| GROUP / GROEP | C <sub>3</sub> | HERBICIDE / ONKRUIDDODER |
| GROUP / GROEP | M              | HERBICIDE / ONKRUIDDODER |



**WARNING**

**HAZARD STATEMENTS:**

Harmful if swallowed or inhaled. May be fatal if swallowed or enters airways. Causes serious eye irritation. Suspected of causing cancer. Suspected of damaging the unborn child. Very toxic to aquatic life with long lasting effects

**PRECAUTIONARY STATEMENTS:**

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Active ingredients:**

Pyrasulfotole (Pyrazole)..... 37,5 g/ℓ  
Bromoxynil (Nitrile)..... 210 g/ℓ  
(heptanoate and octanoate esters)  
Mefenpyr di-ethyl (Safener)..... 9,38 g/ℓ

**Aktiewe bestanddele:**

Pyrasulfotole (Pyrazole)..... 37,5 g/ℓ  
Bromoksiniel (Nitriël)..... 210 g/ℓ  
(heptanoaat en oktaanoaat esters)  
Mefenpyr di-ethyl (Beveiligter)..... 9,38 g/ℓ

**REGISTERED BY / GEREGISTREER DEUR:**

Bayer (Pty) Ltd / (Edms) Bpk  
Reg. 1968/011192/07  
P.O. Box/Posbus 143, Isando, 1600  
South Africa/Suid-Afrika

Tel. No. / Nr. (OFFICE HOURS) / (KANTOORURE): +27 (11) 921 5911

**IN CASE OF POISONING PLEASE PHONE / IN GEVAL VAN VERGIFTIGING SKAKEL ASSEBLIEF:** 0861 555 777

**Resolve<sup>®</sup>** is a registered trademark of the Bayer Group

**Resolve<sup>®</sup>** is 'n geregistreerde handelsmerk van die Bayer Groep

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BATCH NUMBER: See on pack  
LOTNOMMER:

DATE OF MANUFACTURE: Sien op houer  
DATUM VERVAARDIG:

UN No. / VN Nr.: 3082

**Bayer**

RSA/0123/Resolve 15L/Back Booklet Label  
Code: ZA86227274C

## **WARNINGS:**

### **HAZARD STATEMENTS:**

- Harmful if swallowed or inhaled.
- May be fatal if swallowed or enters airways.
- Causes serious eye irritation.
- Suspected of causing cancer.
- Suspected of damaging the unborn child.
- Very toxic to aquatic life with long lasting effects.

### **• WITHHOLDING PERIODS BETWEEN APPLICATION AND GRAZING / FEEDING AND HARVEST OF BARLEY AND WHEAT:**

**GRAZING OR FEEDING:** Allow a 28 day withholding period between application and grazing or feeding.

**HARVEST:** No withholding period required when product is used as directed.

### **• GENERAL:**

Handle with care.

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

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

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

In case of poisoning – CALL A DOCTOR AND MAKE THIS LABEL AVAILABLE TO HIM/HER.

Although **Resolve** has been tested on most important cultivars and no significant phytotoxicity in the form of yield reduction has been recorded under normal growing conditions, this does not mean that a more sensitive cultivar might not be commercialised in the future. Where a new cultivar is encountered, large areas should not be sprayed without prior testing of **Resolve** on that cultivar.

**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 RESISTANT WEED SPECIES OR BIOTYPES 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:**

### **PRECAUTIONARY STATEMENTS:**

- Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
- Wear protective gloves/ protective clothing/ eye protection/ face protection.

Do not inhale fumes or spray mist.

Wash contaminated clothing daily.

Wash with soap and water after use or skin contact. In case of eye contact, rinse immediately with running water.

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

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

Prevent spray drift onto other crops, grazing, rivers, dams or other areas not under treatment.

Clean all equipment thoroughly after use and do not pollute the environment with wash water.

When empty, invert the container over the spray tank or mixing tank and allow it to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to at least one tenth of that of the container and add the rinsing to the contents of the spray tank. Destroy the container by puncturing and burying or burning it. Do not use the container for any other purpose.

## **RELEVANT SUBSTANCES:**

| <b>Formulation Components</b>                | <b>CAS Number</b> | <b>Conc. (%)</b> |
|----------------------------------------------|-------------------|------------------|
| Bromoxynil octanoate                         | 1689-99-2         | 13.5             |
| Bromoxynil heptanoate                        | 56634-95-8        | 12,9             |
| Pyrasulfotole                                | 365400-11-9       | 3.3              |
| Mefenpyr-diethyl                             | 135590-91-9       | 0.82             |
| 2-Ethylhexanole                              | 104-76-7          | > 1,0 – < 10,0   |
| Calcium dodecylbenzenesulphonate             | 26264-06-2        | > 1,0 – < 10,0   |
| Alcohols, C11-14-iso-, C13-rich, ethoxylated | 78330-21-9        | > 1,0 – < 10,0   |
| Propylene carbonate                          | 108-32-7          | > 1 – < 25       |
| Solvent Naphtha (petroleum), heavy aromatic  | 64742-94-5        | >25              |

## **SYMPTOMS OF POISONING:**

Aspiration may cause pulmonary oedema and pneumonitis.

## **FIRST AID TREATMENT:**

**Inhalation:** Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.

**Skin contact:** Wash off thoroughly with soap and plenty of water, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician.

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.

## **NOTE TO PHYSICIAN:**

Treat symptomatically. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable.

## **RESISTANCE WARNING:**

**Resolve** contains members of the pyrazole (pyrasulfotole) and nitrile (bromoxynil) groups of herbicides. **Resolve** inhibits 4-hydroxyphenyl-pyruvate dioxygenase (4-HPPD) and also acts by inhibition photosynthesis at photosystem II in plant cells. For weed resistance management **Resolve** is a Group F<sub>2</sub> and a Group C<sub>3</sub> herbicide. Some naturally-occurring weed biotypes resistant to **Resolve**, and other Group F<sub>2</sub> and Group C<sub>3</sub> herbicides, may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **Resolve** or other Group F<sub>2</sub> and Group C<sub>3</sub> herbicides. Since the presence of resistant weeds is difficult to detect prior to herbicide application, it is of the utmost importance that treated areas be inspected at regular intervals to identify the occurrence of herbicide-resistant weeds timeously. Bayer (Pty) Ltd will not accept liability for performance failure in the event of a build-up of resistant weeds resulting from inadequate management practices as indicated on the label.

To delay herbicide resistance:

- Avoid exclusive repeated use of herbicides from the same herbicide Group Code. Alternate or tank mix with products from different herbicide Group Codes.
- Integrate other control methods (chemical, cultural, biological) into weed control programmes.

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

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

### **Application**

Ensure that complete and even coverage of all weeds are achieved. In dense weed and/or crop stands, good control may not be achieved. In these situations a later clean-up spray of a suitable herbicide is recommended.

### **Time of day**

Optimum performance of **Resolve** occurs when it is applied in warmer temperatures with high light intensity. Avoid application within 1 hour of sunset, or at night, particularly if followed by low overnight temperatures.

### **Effect of climate**

Activity of **Resolve** will be reduced if weeds are stressed. Optimum results will be obtained if high temperature and high light intensity and good soil moisture exists at application.

DO NOT use if rainfall or irrigation is to occur within 2 hours of application.

### **Effect of temperature**

DO NOT apply to frost affected weeds or if frost is imminent. Frost causes stress on weeds and could result in decreased weed control. To ensure optimum results **Resolve** should only be applied once the weeds are no longer under stress from the frost conditions.

### **Effect of Overcast conditions**

Overcast conditions will reduce the effectiveness of **Resolve**. Best results will be obtained when sunny weather precedes and follow the application of **Resolve**. Prolonged overcast conditions during and after application will lower the control achieved with **Resolve**.

### **Effect of trace elements, foliar fertilizers and ammonium sulphate**

Reduced weed control can be expected when trace elements are used in a tank mix with **Resolve**.

The use of foliar fertilizers in tank mixes with **Resolve** may result in reduced weed control.

The use of ammonium sulphate may result in reduced weed control.

## **COMPATIBILITY:**

**Grass herbicides:** Although **Resolve** is compatible with some grass herbicides which belong to the ACCase group (known as the FOP's and DIM's), their efficacy to control grass weeds may be reduced.

**Fungicides:** **Barley only** - **Folicur 250 EW** (L3857), **Folicur Plus 383 EW** (L7428)

The compatibility of **Resolve** with other products may be influenced by the formulation of the other products involved as well as the quality of the water. Since the formulation of other products may change without the knowledge of Bayer (Pty) Ltd. and the quality of water may vary from farm to farm, a physical compatibility test should always be carried out prior to application. Bayer (Pty) Ltd. does not accept responsibility for the crop tolerance of tank mixtures where the formulation of products has changed or for mixtures with products not listed above.

## **RE CROPPING:**

Under circumstances where it may be required to replant barley or wheat after the application of **Resolve**, replanting can be done shortly after application without adhering to any withholding period. The planting of follow-up crops such as oats, canola, lupines, medics, peas, lucerne and onions can also be safely done after the application of **Resolve**. **Broadleaved crops such as sunflowers, potatoes, soybeans, groundnuts etc. should not be planted directly as follow-up crops after the application of Resolve on cereals.**

## **MIXING INSTRUCTIONS:**

Half fill the spray tank with clean water. With agitators in motion, add the correct amount of **Resolve** directly into the spray tank and then add other relevant compatible products. Complete filling the tank with water with agitators in motion. Agitation must continue before and during spraying.

## **METHOD OF APPLICATION:**

### **GROUND APPLICATION:**

For application by means of a tractor-mounted sprayer, the use of a conventional spray boom fitted with flat fan nozzles is recommended. Use a low spray pressure (100-300 kPa) so that **Resolve** is applied as a coarse droplet spray. DO NOT APPLY AT HIGH PRESSURE. Ensure thorough coverage of the weeds by applying at least 200 ℓ of the spray mixture per hectare.

**APPLICATION TABLE:**

| CROP             | DOSE RATE PER HECTARE | REMARKS                                                                                                                                                                                                                                                                                 |
|------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WHEAT and BARLEY | 0,75 l/ha             | Apply when the weeds are fully emerged. The ideal time of application is the 4-leaf growth stage, but not later than the 6-leaf growth stage of the weeds. Application to control <i>Fumaria muralis</i> [= <i>F. officinalis</i> ] (Fumitory) must be done at the 2-leaf growth stage. |

**WEEDS CONTROLLED BY RESOLVE:**

|                                                   |                                |
|---------------------------------------------------|--------------------------------|
| <i>Arctotheca calendula</i>                       | (Cape marigold)                |
| <i>Capsella bursa-pastoris</i>                    | (Shepherd's purse)             |
| <i>Chenopodium album</i>                          | (White goosefoot)              |
| <i>Chenopodium carinatum</i>                      | (Green goosefoot)              |
| <i>Chenopodium murale</i>                         | (Nettle-leaved goosefoot)      |
| <i>Emex australis</i>                             | (Spiny Emex)                   |
| <i>Fumaria muralis</i> [= <i>F. officinalis</i> ] | (Fumitory) (See NOTES)         |
| <i>Lancisia turbinata</i>                         | (Goose daisy)                  |
| <i>Malva parviflora</i>                           | (Small mallow)                 |
| <i>Medicago trebuloides</i> & <i>Medicago</i> sp. | (Bur clover)                   |
| <i>Polygonum aviculare</i>                        | (Prostrate knotweed / Hogweed) |
| <i>Pentzia grandiflora</i>                        | (Stinkweed)                    |
| <i>Raphanus raphanistrum</i>                      | (Wild radish)                  |
| <i>Senecio consanguineus</i>                      | (Ragwort)                      |
| <i>Senecio madagascariensis</i>                   | (Madagascar ragwort)           |
| <i>Spergula arvensis</i>                          | (Sandweed, Corn spurry)        |
| <i>Stellaria media</i>                            | (Chickweed)                    |
| <i>Urtica urens</i> L.                            | (Small stinging nettle)        |
| <i>Urtica dioica</i>                              | (Stinging nettle)              |

**NOTES:** Resolve controls the abovementioned weed species. *Fumaria muralis* is a weed that is difficult to control, therefore it is important to begin spraying early, preferably at the 2-leaf growth stage. Applications done later than the 2-leaf growth stage to control *Fumaria muralis* will result in lower control or suppression only. Early coverage of the inner rows by the crop will help to increase control of *Fumaria muralis*. Other weed species that were not present in the trials, during the development of the product may possibly also be controlled to a certain degree. The registration holder however, does not accept any responsibility for unlisted weeds.

**Weeds not yet emerged or weeds larger than the 6-leaf growth stage at the time of application will not be controlled.**

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## **WAARSKUWING:**

### **GEVAARSTELLINGS:**

- Skadelik indien ingesluk of ingeasem.
- Mag dodelik wees indien ingesluk en in lugweg beland.
- Veroorsaak ernstige oogirritasie.
- Vermoede dat dit kanker kan veroorsaak.
- Vermoede dat dit die ongebore kind kan beskadig.
- Baie giftig vir waterlewendes organismes met langdurige gevolge.

- **WAGPERIODES TUSSEN BESPUITING EN BEWEIDING / VOER EN OES VAN GARS EN KORING:**  
**BEWEIDING OF VOER:** Laat 'n 28 dag wagperiode toe tussen bespuiting en beweiding of voer.  
**OES:** Geen wagperiode nodig wanneer produk gebruik word soos aanbeveel nie.

### • **ALGEMEEN:**

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.

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

In geval van vergiftiging – ONTBIED 'N GENEESHEER EN STEL HIERDIE ETIKET AAN HOM/HAAR BESKIKBAAR.

Alhoewel **Resolve** op die meeste belangrike kultivars getoets is, met geen betekenisvolle simptome van fitotoksiteit in die vorm van oesverlaging onder normale groeitoestande nie, beteken dit nie dat 'n meer vatbare kultivar nie in die toekoms gekommersialiseer kan word nie. Waar 'n nuwe kultivar teëgekrom word, moet groot areas nie behandel word voordat **Resolve** op daardie kultivars getoets is nie.

**ALHOEWEL HIERDIE MIDDEL OMVATTEND ONDER GROOT VERSEIDENHEID TOESTANDE GETOETS IS WAARBORG DIE REGISTRASIEHOUER NIE DAT DIT ONDER ALLE TOESTANDE DOELTREFFEND SAL WEES NIE AANGESIEN DIE WERKING EN EFFEK DAARVAN BEÏNVOED 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 WEERSTANDIGE ONKRUID SPECIES EN BIOTIPES TEEN DIE BETROKKE MIDDEL SOWEL AS DIE METODE, TYD EN AKKURAAKHEID VAN TOEDIENING. VERDER AANVAAR DIE REGISTRASIEHOUER NIE VERANTWOORDELIKHEID VIR SKADE AAN DIE GEWASSE, PLANTEGROEI, DIE OMGEWING OF VIR NADELIGE EFFEK OP MENS OF DIER OF VIR 'N GEBREK AAN PRESTASIE 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:**

### **VOORSORGSTELLINGS:**

- Moet nie poel/walm/gas/stuifsel/dampe/spuitstof inasem nie.
- Dra beskermende handskoene/beskermende klere/oogbeskerming/gesigbeskerming.

Moenie die dampe of sporeinewel inasem nie

Was besoedelde klere daaglik.

Was met seep en water na gebruik of velkontak. In geval van oogkontak spoel onmiddellik met lopende water.

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

Verhoed besoedeling van voedsel, eetgerei, voer en drinkwater.

Verhoed die wegdrywing van sporeinewel na ander gewasse, weidings, riviere, damme of ander gebiede wat nie behandel word nie.

Maak alle apparaat deeglik skoon na gebruik en moenie die omgewing met spoelwater besoedel nie.

Sodra die houer leeg is keer dit om oor die spuitenk of mengbak en dreineer vir ten minste 30 sekondes nadat die vloei tot 'n gedrup verminder het. Spoel die houer daarna driekeer uit met 'n volume water gelyk aan minstens 'n tiende van die houer en gooi die spoelwater by die inhoud van die spuitenk. Vernietig die houer deur gate daarin te maak en te begrawe of te verbrand. Moenie die houer vir enige ander doel gebruik nie.

## RELEVANTE STOWWE:

| Formulation Components                       | CAS Number  | Conc. (%)      |
|----------------------------------------------|-------------|----------------|
| Bromoxynil octanoate                         | 1689-99-2   | 13.5           |
| Bromoxynil heptanoate                        | 56634-95-8  | 12,9           |
| Pyrasulfotole                                | 365400-11-9 | 3.3            |
| Mefenpyr-diethyl                             | 135590-91-9 | 0.82           |
| 2-Ethylhexanole                              | 104-76-7    | > 1,0 – < 10,0 |
| Calcium dodecylbenzenesulphonate             | 26264-06-2  | > 1,0 – < 10,0 |
| Alcohols, C11-14-iso-, C13-rich, ethoxylated | 78330-21-9  | > 1,0 – < 10,0 |
| Propylene carbonate                          | 108-32-7    | > 1 – < 25     |
| Solvent Naphtha (petroleum), heavy aromatic  | 64742-94-5  | >25            |

## SIMPTOME VAN VERGIFTIGING:

Aspirasie kan longedeem en pneumonitis veroorsaak.

## NOODHULPBEHANDELING:

**Ingeasem:** Verskuif die patient na vars lug en hou hom/haar warm en rustig. Ontbied onmiddelik 'n geneesheer of gifbeheersentrum.

**Vel kontak:** Was onmiddelik met seep en genoegsame water, indien beskikbaar met poliëileen glikol 400, daarna spoel met water. Ontbied 'n geneesheer indien simptome voortduur.

**Oog kontak:** Spoel onmiddellik met genoegsame water, ook onder die ooglede, vir ten minste 15 minute. Indien die pasiënt kontaklense dra, verwyder dit na die eerste 5 minute en gaan voort met die oogspoeling. Verkry mediese behandeling indien irritasie ontwikkel en voortduur.

**Ingesluk:** Spoel die mond. MOET NIE braking veroorsaak nie. Ontbied onmiddelik 'n geneesheer of gifbeheersentrum.

## NOTA AAN GENEESHEER:

Behandel simptome. Indien ingesluk is, kan maagspoeling oorweeg word in gevalle van beduidende hoeveelhede ingeslote slegs binne die eerste 2 ure. Die insluk van geaktiveerde koolstof en natriumsulfaat is altyd raadsaam.

## WEERSTANDSWAARSKUWING:

**Resolve** behoort aan die pyrazole (pyrasulfotole) en nitriel (bromoksiniel) groep onkruidododers. **Resolve** inhibeer 4-hidroksiefenielpuruvaat deoksigenase (4-HPPD) en inhibeer ook fotosintese by die "Fotosisteen II" van plantselle. Vir doeleindes wat onkruid weerstandbestuur is **Resolve** 'n Groep F<sub>2</sub> en 'n Groep C<sub>3</sub> onkruidododer. Sommige onkruid biotipes wat natuurlik voorkom en bestand is teen **Resolve** en ander Groep F<sub>2</sub> en Groep C<sub>3</sub> onkruidododers, mag voorkom as gevolg van normale genetiese variasies in enige onkruid polulasie. Die weerstandbiedende onkruid mag later die onkruidpolulasie oorheers indien hierdie onkruidododers aanhoudend gebruik word. Sulke weerstandbiedende onkruid mag nie deur **Resolve** en ander Groep F<sub>2</sub> en Groep C<sub>3</sub> onkruidododers beheer word nie. Aangesien die voorkoms van weerstandbiedende onkruid moeilik is om te bepaal voor onkruidodertoediening plaasvind, is dit uiters noodsaaklik dat behandelde gebiede met gereelde intervalle ondersoek word om onkruidododer weerstand vroeëtydig te identifiseer. Bayer (Edms) Bpk. sal nie verantwoordelikheid aanvaar vir enige gebrek aan prestasie in die geval van die opbou van weerstand in die onkruidpolulasie as gevolg van onvoldoende bestuurspraktyke soos aangedui op die etiket nie.

Om weerstand teen onkruidododers te vertraag:

- Verminder die eksklusiewe herhaaldelike gebruik van onkruidododers in dieselfde onkruidododergroepkode. Wissel af met, of gebruik tenkmengsels van produkte in verskillende onkruidododergroepcodes.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies) in onkruidbeheerprogramme.

**Vir spesifieke inligting oor weerstandbestuur, kontak u naaste Bayer CropScience verteenwoordiger.**

## **GEBRUIKSAANWYSINGS:** GEBRUIK SLEGS SOOS AANGEDUI.

### **Toediening**

Verseker dat alle onkruid volledig en eweredig bedek word. In digte onkruid en/of gewas plantestand, mag goeie beheer nie verkry word nie. In sulke gevalle word 'n skoonmaak behandeling met 'n geskikte onkruiddoder aanbeveel.

### **Tyd van die dag**

Optimale effektiwiteit van **Resolve** kom voor wanneer toediening geskied tydens hoër temperature en ligintensiteit. Vermoed toediening binne 1 uur van sonsondergang of gedurende die nag, veral wanneer toediening gevolg word deur lae oornag temperature.

### **Effek van klimaat**

Die effektiwiteit van **Resolve** sal afneem wanneer onkruid onder spanning verkeer. Optimale resultate sal verkry word wanneer hoë temperatuur en ligintensiteit voorkom en genoegsame grondvog teenwoordig is tydens toediening. MOET NIE binne 2 ure vóór besproeiing of reënval toedien nie.

### **Effek van temperatuur**

MOET NIE toedien op onkruid wat deur ryp beskadig is of wanneer ryp verwag word nie. Ryp veroorsaak spanning in die onkruid en mag bydra tot verminderde effektiwiteit. Om goeie werking te verseker, moet **Resolve** slegs toegedien word wanneer die onkruid herstel het van die ryp toestande.

### **Effek van bewolkte weerstoestande**

Bewolkte weerstoestande sal die effektiwiteit van **Resolve** verlaag. Die beste beheer met **Resolve** sal verkry word wanneer sonnige toestande die toediening voorafgaan en aanhou na die toediening van **Resolve**. Aanhoudende bewolkte toestande gedurende en na die toediening van **Resolve** sal swakker beheer tot gevolg hê.

### **Effek van spoorelemente, blaarvoeding en ammonium sulfaat**

Dit kan verwag word dat die gebruik van spoorelemente saam met **Resolve**, die effektiwiteit van **Resolve** sal verlaag.

Die gebruik van blaarvoedings in tenkmengsels met **Resolve**, kan afname van beheer tot gevolg hê.

Die gebruik van ammonium sulfaat saam met **Resolve**, kan afname van beheer veroorsaak.

## **VERENIGBAARHEID:**

**Grasdoders:** Alhoewel **Resolve** verenigbaar is met sommige grasdoders wat aan die ACCase groep behoort (bekend as die FOP's en DIM's), mag hulle effektiwiteit om grasse te beheer verminder.

**Swamdoders:** Gars alleenlik - **Folicur 250 EW** (L3857), **Folicur Plus 383 EW** (L7428)

Die verenigbaarheid van **Resolve** met ander produkte kan beïnvloed word deur die formulasie van die produkte betrokke asook die kwaliteit van die water. Aangesien die formulasie van ander produkte kan verander sonder die medewete van Bayer (Edms) Bpk en die kwaliteit van die water ook van plaas tot plaas kan varieer, moet 'n fisiese verenigbaarheidstoets altyd uitgevoer word voordat dit gespuit word. Bayer (Edms.) Bpk. aanvaar nie verantwoordelikheid vir gewas verdraagsaamheid van tenk mengsels waar die formulasie van produkte verander het nie of vir mengsels met produkte wat nie hierbo genoem word nie.

## **HERVESTIGING:**

Onder omstandighede waar dit vereis word om koring of gars te herplant na die toediening van **Resolve**, kan herplanting gedoen word kort na toediening sonder enige onthoudingsperiode. Die vestiging van opvolg gewasse soos hawer, kanola, lupiene, klaver, ertjies, lusem en uie kan ook met veiligheid gedoen word na die toediening van **Resolve**. **Brëëblaar gewasse soos sonneblomme, aartappels, sojabone, grondbone ens. moet nie dadelik as opvolggewasse, na die toediening van Resolve op graangewasse, geplant te word nie.**

## **MENGINSTRUKSIES:**

Maak die spuittenk half-vol met skoon water. Voeg die korrekte hoeveelheid **Resolve** direk in die spuittenk terwyl die water geroer word en voeg dan die ander geskikte verenigbare produkte by. Vul die spuittenk verder met water terwyl roering plaasvind. Roering moet plaasvind voor en tydens toediening.

## TOEDIENINGSMETODE:

### GRONDTOEDIENING:

Vir toediening d.m.v. 'n trekkerspuut word aanbeveel dat 'n konvensionele spuitbalk met platwaaierspuitpunte gebruik word. Gebruik 'n lae spuitdruk (100-300 kPa) sodat **Resolve** in die vorm van 'n growwe sproei aangewend word. MOENIE TEEN HOË DRUK AANWEND NIE. Sorg dat deeglike bedekking van die onkruid verkry word deur minstens 200 ℓ spuitmengsel per hektaar toe te dien.

### TOEDIENINGSTABEL:

| GEWAS          | DOSIS PER HEKTAAR | OPMERKINGS                                                                                                                                                                                                                                                                                 |
|----------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| KORING en GARS | 0,75 ℓ/ha         | Dien toe wanneer onkruid volledig opgekom het. Die ideale tyd van toediening is die 4-blaar groeistadium, maar nie later as die 6-blaar groeistadium van die onkruid nie.<br><i>Fumaria muralis</i> [=F. <i>Officinalis</i> ] (Duiwekerwel) moet op die 2-blaar groeistadium gespuit word. |

### ONKRUIDE WAT DEUR RESOLVE BEHEER WORD:

|                                                   |                                 |
|---------------------------------------------------|---------------------------------|
| <i>Arctotheca calendula</i>                       | (Soetgousblom / Gousblom)       |
| <i>Capsella bursa-pastoris</i>                    | (Herderstassie)                 |
| <i>Chenopodium album</i>                          | (Withondebossie)                |
| <i>Chenopodium carinatum</i>                      | (Groenhondebossie)              |
| <i>Chenopodium murale</i>                         | (Muurhondebossie)               |
| <i>Emex australis</i>                             | (Kaapse dubbeltjie)             |
| <i>Fumaria muralis</i> [=F. <i>officinalis</i> ]  | (Duiwekerwel) (Sien NOTAS)      |
| <i>Lancisia turbinata</i>                         | (Ganskos)                       |
| <i>Malva parviflora</i>                           | (Kiesieblaar)                   |
| <i>Medicago trebuloides</i> & <i>Medicago</i> sp. | (Klitsklawer)                   |
| <i>Polygonum aviculare</i>                        | (Voëlduisendknoop / Koperdraad) |
| <i>Pentzia grandiflora</i>                        | (Stinkkruid)                    |
| <i>Raphanus raphanistrum</i>                      | (Ramenas)                       |
| <i>Senecio consanguineus</i>                      | (Hongerbos, Radiatorbos)        |
| <i>Senecio madagascariensis</i>                   |                                 |
| <i>Spergula arvensis</i>                          | (Sporie)                        |
| <i>Stellaria media</i>                            | (Sterremuur)                    |
| <i>Urtica urens</i>                               | (Kleinbrandnetel)               |
| <i>Urtica dioica</i>                              | (Gewone brandnetel)             |

**NOTAS:** **Resolve** beheer bogenoemde onkruidspesies. *Fumaria muralis* is 'n moeilik beheerbare onkruid en moet verkieslik so vroeg as moontlik op die 2-blaar groeistadium gespuit word. Toedienings wat later as die 2-blaar stadium gedoen word, sal swakker beheer of selfs net onderdrukking van *Fumaria muralis* tot gevolg hê. Indien die gewas vroegtydig die tussenrye bedek (toemaak) sal dit help om die beheer van *Fumaria muralis* te verbeter. Ander onkruidspesies wat nie tydens die ontwikkelingsproewe met die middel voorgekom het nie, mag ook moontlik tot 'n sekere mate beheer word. Die registrasiehouer aanvaar egter geen aanspreeklikheid ten opsigte van ongelyste onkruid nie. Onkruid wat nog nie opgekom het nie en onkruid groter as die 6-blaar groeistadium ten tye van toediening sal nie beheer word nie.

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