

## ENVOY

**BEFORE USING THIS PRODUCT, READ THE LABEL CAREFULLY**

**GEBRUIKSAANWYVINGS INGESLUIT**  
Lotnommer  
Datum van vervaardiging

**VERWYS NA BESONDERHEDE**  
**SOOS OP HOUER / SAK GEDRUK**

# ENVOY

**HERBICIDE**



Reg. No. L10624, Act/Wet No. 36 of/van 1947

1:05/04/2019

**A suspension concentrate herbicide for the control of weeds in the crops as indicated.**

**'n Suspensie konsentraat onkruidoder vir die beheer van onkruid in die gewasse soos aangedui.**

HRAC HERBICIDE GROUP CODE	B2	HRAC ONKRUIDODDERGROEPKODE
<b>ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL</b>		
Diclosulam (triazolopyrimidine sulfonanilide)	210 g/ℓ	Diklosulam (triasolopirimidien sulfoonilied)

Registration Holder / Registrasiehouer  
**Meridian Agrochemical Company (Pty.) Ltd. / (Edms.) Bpk.**  
Reg. No. 2000/010819/07  
P.O. Box / Posbus 436, Modderfontein, 1645, South Africa / Suid-Afrika


5ℓ



UN Number: 3082



CAUTION / VERSIGTIG



## WARNINGS

Withholding period:

Allow the following minimum number of days between last treatment and harvest:

Groundnuts and Soybeans..... 86 days

- Handle with care.
- Harmful if swallowed.
- May cause skin and eye irritation.
- Keep out of reach of children, animals and uninformed people.
- Store under lock and key in a cool, dry, well-ventilated area away from food, feed, seed, fertilizers and other types of agricultural remedies.
- Avoid skin and eye contact.
- Wear protective clothing (gloves and face shield) when handling the concentrate.
- Do not spray over, or allow any spray drift to contaminate, water and adjacent areas.
- Comply with the instructions for use in order to avoid risks to man and the environment.
- Store in the original, tightly closed container away from sun and damp.
- **Re-entry:** Do not enter the treated area until the spray deposit has dried unless wearing protective clothing.
- **ENVOY** has been tested on the most important commercial cultivars without any phytotoxic effects. More susceptible cultivars may be released in the future which need to be tested; for this, apply **ENVOY** to a limited test area before commercial applications are made.

**Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be effective under all conditions. The activity 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 weed against the remedy, 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 by 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 inhale spray mist.
- Do not contaminate surface water or ditches with any chemicals or used containers.
- Product must be stored sealed in the original product container.
- Do not smoke, eat or drink whilst handling this product or before washing hands and face and changing clothes.
- Prevent contamination of food, feed, drinking water as well as eating utensils.
- Avoid skin, eye or clothing contact with the concentrate or spray mixture.
- Wear protective clothing (impermeable gloves, and eye / face protection) while handling this product.
- Wash with soap and water directly after use.
- Thoroughly wash protective equipment and contaminated clothing after use.
- Wash immediately after accidental skin contact with soap and water.
- In case of eye contact, immediately flush with plenty of water.
- Invert the empty container over the spraying or mixing tank and allow it to drain for at least thirty 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 30% of the volume of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner.
- Avoid spray drift onto other crops, grazing, rivers, dams or other areas not under treatment.
- Clean all equipment thoroughly following use and dispose of the wash water where it will not pollute the environment or contaminate crops, grazing, rivers or dams. Refer to **SPRAYER CLEAN-OUT**.
- Clean all mixing and application equipment after use and before using it for other products.
- Keep children and animals away from stacked and waste material.
- Destroy the empty container by perforation and flattening and dispose of it in a safe way in accordance with local regulations. Do not use it for any other purpose.

## USE RESTRICTIONS

Consult the sales agent of your local Distributor for on farm advice before using **ENVOY**.

**ENVOY** must be used as a tank mixture in combination with complementary herbicide/s as directed. Such tank mixtures may damage the crops to which they are applied under the following conditions:

- ❖ Planting depth of the crop seed other than the optimum as recommended by the ARC Grain Crops Institute. This depth is 50 – 75 mm for groundnuts and 20 – 60 mm for soybeans (depending on the seedbed and soil conditions), these planting depths must be complied with.
- ❖ Do not apply **ENVOY** through any type of irrigation system. Flood irrigation may reduce the weed control efficacy.
- ❖ Do not use **ENVOY**:
  - On poorly drained soils or soils with a compaction layer. Water logging in the presence of herbicides may cause stand reduction and / or stunted growth, which may lead to yield reduction.
  - On soils with a pH (H<sub>2</sub>O) of 7 or more.
  - Under conditions of heavy rain and / or irrigation on sandy or gravel soils.
  - Under abnormally cold and / or abnormally wet conditions.
- ❖ Do not apply **ENVOY** tank mixtures to inbred parent plants of crop cultivars as well as experimental or newly released cultivars, without first consulting the manufacturer, distributor or seed supplier in this regard.

**ENVOY** in a mixture with **ACETAK**, **UNIMOC** and **TORPEDO** must be applied prior to crop emergence, as directed.

Do not apply to 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. Meridian Agrochemical Company (Pty) Ltd accepts no responsibility for any negative effects experienced if the instructions on this label are not adhered to, unless a Meridian representative was consulted beforehand.

Do not apply the afore-mentioned mixtures post-emergence to groundnuts or soybeans.

When using other products in a tank mixture with **ENVOY** always consult the labels of those particular products regarding directions and restrictions for their application and crop rotation recommendations. Consult a Meridian Agritech representative for details.

#### SPRAYER CLEAN-UP

Clean all mixing and application equipment after use and before using with other products.

- Rinse and flush application equipment thoroughly with water.
- Rinse a second time using a 1% solution of household ammonia.
- Allow the solution to stand in the spray tank for several hours but preferably overnight.
- Rinse at least twice with clean water.
- Do not use the applicator for applying products other than herbicides.
- Dispose of the wash water where it will not contaminate food, crops, grazing, rivers, dams or boreholes.

#### MINIMUM RECROPPING INTERVAL AND CROP ROTATION GUIDELINES

The minimum re-cropping interval is the amount of time which must be observed between the last application of **ENVOY** in combinations with complementary herbicide / s and the anticipated date of planting of a subsequent crop.

In order to avoid injury to subsequent crops, the following re-cropping intervals must be observed:

Tank mixture	FOLLOW – UP CROP							
	Soybeans	Groundnuts	Dry Beans	Grain Sorghum	Maize	Potatoes	Sunflowers	Wheat, Oats, Barley
	RE-CROPPING INTERVAL (MONTHS)							
Envoy + Unimoc	0	0	10	10	10	10	10	5
Envoy + Torpedo	0	0	10	10	10	10	10	5
Envoy + Acetak	3	0	10	10	10	10	10	5
Envoy + Unimoc + Torpedo	0	0	10	10	10	10	10	5

**Important:**

- For all other crops, a re-planting interval of at least 24 months must be observed, preceded by a test planting.
- The above-mentioned waiting periods are only valid if:
  - ❖ Only a single application of **ENVOY** per field per season was made.
  - ❖ The correct standard recommended dosage rate of **ENVOY** in combination with complementary herbicide/s according to the soil type was applied (the label recommended application rate must be regarded as strictly the maximum usage rate of **ENVOY** per season).
  - ❖ Normal or above rainfall and / or irrigation occurred during and following the season in which the application was made.
  - ❖ The rain and / or irrigation in the period after application of **ENVOY** and prior to planting of the follow-up crop must have been well-distributed and must have totalled at least 350 mm.
  - ❖ The land should always be deep ploughed before a follow-up crop is planted.

**WEEDS CONTROLLED:****ENVOY + ACETAK****Broadleaved weeds**

Scientific name	Common name
<i>Amaranthus hybridus</i>	Common pigweed
<i>Chenopodium album</i>	White goosefoot
<i>Chenopodium carinatum</i>	Green goosefoot
<i>Cleome gynandra</i>	Spider wisp
<i>Cleome monophylla</i>	Spindlepod
<i>Galinsoga parviflora</i>	Gallant soldier
<i>Schkuhria pinnata</i>	Dwarf marigold
<i>Tribulus terrestris</i>	Dubbeltjie

**Annual grasses**

Scientific name	Common name
<i>Brachiaria eruciformis</i>	Sweet signal grass
<i>Chloris virgata</i>	Feathertop Chloris
<i>Digitaria sanguinalis</i>	Crab finger grass
<i>Echinochloa crus-galli</i>	Barnyard grass

**ENVOY + UNIMOC EC + TORPEDO SC****Broadleaved weeds**

Scientific name	Common name
<i>Amaranthus hybridus</i>	Common pigweed
<i>Datura ferox</i>	Large thornapple

**ENVOY + UNIMOC EC****Broadleaved weeds**

Scientific name	Common name
<i>Amaranthus hybridus</i>	Common pigweed
<i>Chenopodium album</i>	White goosefoot
<i>Chenopodium carinatum</i>	Green goosefoot
<i>Cleome gynandra</i>	Spider wisp
<i>Cleome monophylla</i>	Spindlepod
<i>Galinsoga parviflora</i>	Gallant soldier
<i>Schkuhria pinnata</i>	Dwarf marigold
<i>Tribulus terrestris</i>	Dubbeltjie

**VARIABLE CONTROL: ENVOY + ACETAKEC****Broadleaved weeds**

Scientific name	Common name
<i>Commelina benghalensis</i>	Bengal wandering Jew
<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria
<i>Datura ferox</i>	Large Thorn apple
<i>Hibiscus trionum</i>	Bladderweed

## VARIABLE CONTROL: ENVOY + UNIMOC + TORPEDO

### Annual grasses

Scientific name	Common name
<i>Urochloa panicoides</i>	Annual signal grass

### NOTE

Please refer to the product label for **UNIMOC EC**, **ACETAK EC** and **TORPEDO SC** for a list of additional weeds which may be controlled.

**ENVOY** mixtures control various broadleaf weeds and certain annual grasses as listed above. Other weeds that were not present during the developing trials of these treatments may also be controlled to a certain degree. The registration holder accepts no responsibility for unlisted weeds.

### Important: Yellow nutsedge (*Cyperus esculentus*)

The control of *Cyperus esculentus* can be improved provided that the following conditions are met:

- Planting is preceded immediately by a thorough ploughing with a mouldboard plough.
- A relatively fine, firm and even seedbed is prepared.
- Herbicide application is followed by at least 15 mm (for light soils) to 25 mm (for heavy soils) of soft penetrating rain or irrigation in order to leach the herbicide into the soil prior to the emergence of *Cyperus esculentus* (normally 7 – 10 days after ploughing). These conditions are more likely to occur during the latter half of the planting season (November)
- Rainfall following herbicide application, but before emergence of *Cyperus esculentus* is needed for optimum *Cyperus esculentus* control. Therefore, application of the tank mixture should be made at or immediately after planting into moist soil.
- When planting into dry soil (insufficient moisture for *Cyperus esculentus* germination), the application should be timed as close as possible to, but definitely before, the first rains.

The control of the above-mentioned weeds may be detrimentally affected under the following conditions:

- ❖ Poorly prepared seedbeds.
- ❖ Soils with a pH (H<sub>2</sub>O) of less than 5.0 and an organic matter content of more than 3%.
- ❖ Dry conditions directly after application or a lack of sufficient rain on heavy soils.

### MODE OF ACTION

Diclosulam acts by inhibiting the acetolactate synthase (ALS) enzyme. The primary site of activity is within the chloroplasts within plant meristems.

### DIRECTIONS FOR USE

**Use only as directed.**

### COMPATIBILITY

The compatibility of **ENVOY** with other products depends on the formulations of the respective products as well as the quality of the spray water to be used. As formulations change from time to time it is recommended that a physical compatibility test be done prior to the tank mixture being made. Do not mix with any products not listed in this label. **ENVOY** is compatible with **UNIMOC EC**, **ACETAK EC**, **TORPEDO SC**, **ICHIBAN 100 EW** and **ZENIT**.

When using other products in a spray program with **ENVOY** always consult the labels of those particular products regarding directions and restrictions for their application and crop rotation recommendations. Consult a Meridian Agritech representative for details.

### MIXING AND APPLICATION INSTRUCTIONS

Half-fill the spray tank with suitable water, then add the required amount of **ENVOY** to the water in the tank while agitating. Fill the spray tank to the desired volume. Should tank mixtures with other herbicides be made, follow the respective manufacturers' label recommendations. **Tank mixtures must be sprayed out immediately and not be allowed to stand in the spray tank overnight.** Spraying equipment must be thoroughly flushed out at the end of the spraying operation.

Ensure constant and thorough agitation during mixing and spray operations.

## APPLICATION METHODS

### Post plant pre-emergence

When planting into moist soil, **ENVOY** must be applied in a mixture with **ACETAK EC**, **UNIMOC EC** or **TORPEDO SC** within **three days of planting** (but preferably at planting) on a fine, even, firm, freshly prepared seedbed that is free of weeds, excessive plant trash and large clods. The herbicide mixture should not be applied later than three days after the final cultivation for seedbed preparation.

Any deviation from the aforesaid seedbed conditions and / or application timing may result in reduced weed control. In order to obtain good results, it is also necessary that application is followed within seven days by 12 – 15 mm rain or irrigation before the weeds emerge. If rainfall does not occur in time, and the weeds begin to emerge and develop, a shallow cultivation must be carried out to destroy these weeds and mix the herbicide with the top 10 – 20 mm of the soil. Cultivation equipment adjusted to run shallow and minimize soil movement will decrease the possibility of diluting or moving the herbicide out of the weed control zone.

A rotary harrowing in the same direction of the rows may improve crop emergence if soil crusting is a problem. Minimize soil movement. In order to avoid possible stress to the crop of inadequate nutrition and to promote vigorous initial crop seedling growth, ensure that adequate fertilizer is placed near the seed at planting.

### Ground application (Post plant pre-emergence)

**ENVOY** in a mixture with complementary product/s as recommended can be applied using any medium or high volume sprayer, properly calibrated and which is equipped with an efficient agitation mechanism. The choice and arrangement of the fan type spray nozzles should be such as to ensure even distribution and optimal recovery of the herbicide. The recommended product amount of **ENVOY** in a mixture with complementary product/s should be applied in at least 200 l water / ha, as an overall application. If band treatment is practiced, proportionately less spray mixture must be used per hectare.

## RECOMMENDATIONS

### GROUNDNUTS (Pre-emergence)

#### ENVOY + UNIMOC EC

% CLAY	ENVOY (ml / ha)	UNIMOC EC (ml / ha)
0-10	40	900
11-20	60	1200
21-30	80	1500

#### ENVOY + TORPEDO SC

% CLAY	ENVOY (ml / ha)	TORPEDO SC (ml / ha)
0-10	20	35
11-20	30	50
21-30	40	62.5

#### ENVOY + UNIMOC EC + TORPEDO SC

% CLAY	ENVOY (ml / ha)	UNIMOC EC (ml / ha)	TORPEDO SC (ml / ha)
0-10	20	900	35
11-20	30	1200	50
21-30	40	1500	62.5

#### ENVOY + ACETAK EC

% CLAY	ENVOY (ml / ha)	ACETAK EC (ml / ha)
0-10	40	750
11-20	60	1000
21-30	80	1500

**SOYBEANS (Pre-emergence)****ENVOY + UNIMOC EC**

<b>% CLAY</b>	<b>ENVOY (mℓ / ha)</b>	<b>UNIMOC EC (mℓ / ha)</b>
0-10	40	800
11-20	60	900
21-30	80	1200
31-40	100	1500
>40	120	1500

**ENVOY + TORPEDO SC**

<b>% CLAY</b>	<b>ENVOY (mℓ / ha)</b>	<b>TORPEDO SC (mℓ / ha)</b>
0-10	20	35
11-20	30	50
21-30	40	62.5
31-40	Not recommended	Not recommended
>40	Not recommended	Not recommended

**ENVOY + ACETAK EC**

<b>% CLAY</b>	<b>ENVOY (mℓ / ha)</b>	<b>ACETAK EC (mℓ / ha)</b>
0-10	40	750
11-20	60	1000
21-30	80	1500

**ACKNOWLEDGEMENT OF TRADEMARKS**

Unimoc EC (L.7341)  
Torpedo SC (L7655)  
Acetak EC (L 6904)

Meridian Agrochemical Company (Pty) Ltd  
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Meridian Agrochemical Company (Pty) Ltd

## WAARSKUWINGS

Onthoudingsperiode:

Laat die volgende minimum aantal dae toe tussen laaste toediening en oes:

Grondbone en Sojabone..... 86 dae

- Hanteer versigtig.
- Skadelik indien produk ingesluk.
- Mag vel- en oogirritasie veroorsaak.
- Hou buite bereik van kinders, diere en oningeligte persone.
- Bêre agter slot-en-grendel in 'n koel, droë, goed-geventileerde plek, weg van voedsel, voer, saad, kunsmis en ander landboumiddels.
- Vermy vel- en oogkontak.
- Dra beskermende klere (handskoene en gesigskerm) wanneer die konsentraat hanteer word.
- Moenie bo-oor water toedien of toelaat dat die spuitnewel wegdryf en waterbronne en aangrensende gebiede besoedel nie.
- Voldoen aan die gebruiksaanwysings om sodoende risiko's aan mens en omgewing te vermy.
- Bêre in die oorspronklike, digsluitende houër, weg van sonlig en klammigheid.
- **Herbetreding:** Moenie behandelde gebied betree alvorens spuitneerslag droog is nie, tensy beskermende oorklere gedra word.
- **ENVOY** is sonder enige fitotoksisiteitskade op die mees belangrikste kommersiële kultivars getoets. Meer sensitiewe kultivars mag in die toekoms vrygestel word wat eers getoets moet word; hiervoor moet **ENVOY** eers op 'n klein toetsoppervlakte aangewend word, alvorens groot kommersiële bespuitings gemaak word.

**Alhoewel hierdie middel omvattend onder 'n groot verskeidenheid toestande getoets is, waarborg die registrasiehouer nie dat dit onder alle toestande doeltreffend sal wees nie. Die werking en doeltreffendheid daarvan kan beïnvloed word deur faktore soos abnormale grond-, klimaats- en bergingstoestande; kwaliteit van verdunningswater, verenigbaarheid met ander stowwe wat nie op die etiket aangedui word nie en die voorkoms van weerstand van die onkruid teen die betrokke middel, sowel as die metode, tyd en akkuraatheid van die toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei, die omgewing of vir 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 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

- Moenie die spuitnewel inasem nie.
- Moenie oppervlakwater of slote met enige chemikalieë of gebruikte houers besoedel nie.
- Produk moet in die oorspronklike geseëde produkhouer gestoor word.
- Moenie rook, eet of drink tydens hantering van die produk of voordat hande en gesig gewas en skoon klere aangetrek is nie.
- Voorkom die besoedeling van voedsel, voer, drinkwater en eetgerei.
- Verhoed vel- en oogkontak, asook kontak met klere, met die konsentraat of spuitmengsel.
- Dra beskermende klere (ondeurdingbare handskoene, oog/gesig beskerming) terwyl hierdie produk hanteer word.
- Was met seep en water direk na gebruik.
- Was beskermende toerusting en besoedelde klere deeglik na gebruik.
- Was onmiddellik na toevallige velkontak met seep en water.
- In geval van oogkontak spoel onmiddellik met genoegsame water.
- Keer die leë houër om oor die spuitenk of mengbak en dreineer vir minstens 30 sekondes nadat die vloeï tot 'n gedrup verminder het. Spoel die houër daarna **drie keer** uit met 'n volume water gelykstaande aan 'n minimum van 30% van die inhoud van die houër. Gooi die spelwater by die inhoud van die spuitenk voordat die houër op die voorgeskrywe manier vernietig word.
- Vermy wegdrywing van spuitnewel na ander gewasse, weiding, riviere, damme en gebiede wat nie behandel moet word nie.
- Maak toedieningsapparaat deeglik na gebruik skoon. Uitspoelwater moet nie gewasse, weidings, riviere, damme besoedel nie. Verwys na **SKOONMAAK VAN SPUITTOERUSTING**.
- Maak alle meng- en spuittoerusting na gebruik skoon en voordat dit vir ander produkte gebruik word.
- Hou kinders en diere weg van opgestapelde – en afvalmateriaal.
- Vernietig leë houers deur gate daarin te maak en dit plat te maak en volgens plaaslike regulasies



op 'n veilige manier daarvan ontslae te raak. Moenie dit vir enige ander doel gebruik nie.

## **GEBRUIKSBEPERKINGS**

Raadpleeg die verkoopsagent of jou plaaslike Verspreider vir op-die-plaas advies voordat **ENVOY** gebruik word.

**ENVOY** moet as tenkmengsels in kombinasie met ander komplimenterende onkruidodder(s) soos voorgeskryf gebruik word. Sulke tenkmengsels mag gewasskade onder die volgende toestande veroorsaak:

- ❖ Die plantdiepte van die gewassaad anders as dié soos deur die LNR Instituut vir graangewasse voorgeskryf. Die diepte is 50 – 75 mm vir grondbone en 20 – 60 mm vir sojabone (afhangend van die saadbed en grondtoestande). Hierdie plantdieptes moet nagekom word.
- ❖ Moenie **ENVOY** deur enige besproeiingstelsel toedien nie. Vloedbesproeiing mag die effektiwiteit van die onkruidbeheer verlaag.
- ❖ Moenie **ENVOY** toedien
  - op swak gedreineerde gronde of gronde met 'n kompaksielaag nie. Versuip-toestande in die teenwoordigheid van onkruidodders sal tot verminderde gewasstand en/of vertraagde groei lei, wat oesverliese mag veroorsaak.
  - op gronde met 'n pH (H<sub>2</sub>O) van 7 of meer nie.
  - onder toestande van hewige reënval en/of besproeiing op sanderige- of gruisgronde nie.
  - onder abnormale koue en/of abnormale nat toestande nie.
- ❖ Moenie **ENVOY** tenkmengsels toedien op ingeteelde ouerplante van gewaskultivars, asook eksperimentele of nuutvrygestelde kultivars, sonder om eers die vervaardiger, verspreider of saadverskaffer in hierdie verband te raadpleeg nie.

**ENVOY** in 'n mengsel met **ACETAK**, **UNIMOC** en **TORPEDO** moet vooropkoms van die gewas, soos aanbeveel, toegedien word.

Moenie op enige gewas of situasie toedien wat nie op die etiketvoorskrif verskyn nie.

Moenie hierdie produk in kombinasie of tenkmengsel met enige ander produk of landboumiddel gebruik wat nie spesifiek op hierdie etiket gelys is nie. Meridian Agrochemical Company (Edms.) Bpk. aanvaar geen verantwoordelikheid vir enige negatiewe gevolge indien die instruksies op die etiket nie nagekom word nie, tensy 'n Meridian verteenwoordiger vooraf geraadpleeg is.

Moenie bogenoemde mengsels na-opkoms op grondbone of sojabone toedien nie.

Wanneer ander produkte saam met **ENVOY** in tenkmengsels gebruik word, raadpleeg daardie spesifieke produketikette vir gebruiksaanwysings, gebruiksbepelings en gewasrotasie aanbevelings.

Raadpleeg 'n Meridian Agritech verteenwoordiger vir besonderhede.

## **SKOONMAAK VAN SPUITTOERUSTING**

Maak alle meng- en spuittoerusting skoon na gebruik en voor gebruik met ander produkte.

- Spuit en spoel spuittoerusting deeglik skoon met water.
- Spoel 'n tweede keer uit met 'n 1% oplossing van huishoudelike ammoniak.
- Laat oplossing toe om vir 'n paar uur en verkieslik oornag in die spuittenk te staan.
- Spoel ten minste twee keer met met skoon water uit.
- Moenie die spuittenk vir enige ander produkte dan onkruidodders gebruik nie.
- Raak ontslae van waswater waar dit nie voedsel, gewasse, weidings, riviere, damme en boorgate sal besoedel nie.

## **MINIMUM WAGPERIODES VIR GEWASROTASIE-RIGLYNE**

Die minimum wagperiode is die tydsverloop tussen die laaste toediening van **ENVOY** in kombinasie met komplimenterende onkruidodder(s) en die verwagte datum van aanplanting van die opvolggewas.

Om skade aan opvolggewasse te vermy, moet die volgende wagperiodes gehandhaaf word:

TENKMENGSEL	OPVOLGGEWAS							
	Sojabone	Grondbone	Droëbone	Graansorgum	Mielies	Aartappels	Sonneblom	Koring, Gars en Hawer
	WAGPERIODE (MAANDE)							
Envoy + Unimoc	0	0	10	10	10	10	10	5
Envoy + Torpedo	0	0	10	10	10	10	10	5
Envoy + Acetak	3	0	10	10	10	10	10	5
Envoy + Unimoc + Torpedo	0	0	10	10	10	10	10	5

#### Belangrik:

- Vir alle ander gewasse word 'n wagperiode van ten minste 24 maande voorgestel, voorafgegaan deur 'n toetsplanting.
- Die bogenoemde wagperiodes is slegs geldig indien:
  - ❖ Slegs 'n enkele **ENVOY** toediening per land per seisoen gemaak is.
  - ❖ Die korrekte standaard aanbevole dosis **ENVOY** in kombinasie met die komplimenterende onkruidodder(s) volgens die grondtipe toegedien is (die etiketaanbevelingsdosis moet streng as die maksimum gebruiksdosis van **ENVOY** per seisoen beskou word).
  - ❖ Normale of bogemiddelde reënval en/of besproeiing voorgekom het gedurende die seisoen en dié daarna waarin die toediening gemaak is.
  - ❖ Die reën en/of besproeiing gedurende hierdie tydperk na toediening van **ENVOY** en voordat opvolggewas geplant is, goed versprei was, en ten minste 350 mm in totaal gemeet het.
  - ❖ Die land moet altyd diep-geploeg word voordat 'n opvolggewas geplant word.

#### ONKRUIDE BEHEER:

##### ENVOY + ACETAK

##### Breëblaaronkruid

Wetenskaplike naam	Gewone naam
<i>Amaranthus hybridus</i>	Gewone misbredie
<i>Chenopodium album</i>	Withondebossie
<i>Chenopodium carinatum</i>	Groenhondebossie
<i>Cleome gynandra</i>	Snotterbelletjie
<i>Cleome monophylla</i>	Rusperbossie
<i>Galinsoga parviflora</i>	Knopkruid
<i>Schkuhria pinnata</i>	Kleinkakiebos
<i>Tribulus terrestris</i>	Dubbeltjie

##### Eenjarige grasse

Wetenskaplike naam	Gewone naam
<i>Brachiaria eruciformis</i>	Litjiesinjalgras
<i>Chloris virgata</i>	Witpluimgras
<i>Digitaria sanguinalis</i>	Kruisvingergras
<i>Echinochloa crus-galli</i>	Hanepootmanna (Blousaadgras)

##### ENVOY + UNIMOC EC + TORPEDO SC

##### Breëblaaronkruid

Wetenskaplike naam	Gewone naam
<i>Amaranthus hybridus</i>	Gewone misbredie
<i>Datura ferox</i>	Grootstinkblaar

##### ENVOY + UNIMOC EC

##### Breëblaaronkruid

Wetenskaplike naam	Gewone naam
<i>Amaranthus hybridus</i>	Gewone misbredie
<i>Chenopodium album</i>	Withondebossie
<i>Chenopodium carinatum</i>	Groenhondebossie
<i>Cleome gynandra</i>	Snotterbelletjie
<i>Cleome monophylla</i>	Rusperbossie
<i>Galinsoga parviflora</i>	Knopkruid
<i>Schkuhria pinnata</i>	Kleinkakiebos
<i>Tribulus terrestris</i>	Dubbeltjie

#### WISSELVALLIGE BEHEER: ENVOY + ACETAKEC

##### Breëblaaronkruid

Wetenskaplike naam	Gewone naam
<i>Commelina benghalensis</i>	Bengaalse wandelende Jood
<i>Crotalaria sphaerocarpa</i>	Mielie-Crotalaria (Wilde lusern)
<i>Datura ferox</i>	Grootstinkblaar
<i>Hibiscus trionum</i>	Terblansbossie

#### WISSELVALLIGE BEHEER: ENVOY + UNIMOC + TORPEDO

##### Eenjarige grasse

Wetenskaplike naam	Gewone naam
<i>Urochloa panicoides</i>	Beesgras (Tuin Urochloa)

#### NOTA

Verwys asb. na die produketikette van **UNIMOC EC**, **ACETAK EC** en **TORPEDO SC** vir 'n lys van addisionele onkruid wat beheer mag word.

**ENVOY-** mengsels beheer 'n verskeidenheid breëblaaronkruid en sommige eenjarige grasse soos hierbo gelys. Ander onkruid wat nie teenwoordig was met die ontwikkelingsproewe van hierdie behandelings nie, mag ook tot 'n sekere mate beheer word. Die registrasiehouer aanvaar geen verantwoordelikheid vir ongelyste onkruid nie.

#### Belangrik: Geeluintjie (*Cyperus esculentus*)

Die beheer van *Cyperus esculentus* kan verbeter word indien aan die volgende voorwaardes voldoen word:

- Die plantproses onmiddellik voorafgegaan word deur 'n deeglike ploegbewerking met 'n skaarploeg.
- 'n Relatiewe fyn, ferm en egalige saadbed voorberei word.
- Die onkruidodertoediening met ten minste 15 mm (vir ligte gronde) tot 25 mm (vir swaar gronde) sagte deurdringende reën of besproeiing opgevolg is om sodoende die onkruidodder in die grond in te loog voordat *Cyperus esculentus* opkom (normaalweg 7 – 10 dae na ploegbewerking). Hierdie toestande sal meer waarskynlik gedurende die laaste helfte (November) van die plantseisoen voorkom.
- Reënval nadat 'n onkruidodertoediening gemaak is, maar voordat *Cyperus esculentus* opgekom het, is noodsaaklik vir optimale *Cyperus esculentus* beheer. Daarom moet die tenkmengsel tydens of onmiddellik na plant in klam grond toegedien word.
- Wanneer in droë grond geplant word (onvoldoende vog vir *Cyperus esculentus* ontkieming), moet die toediening uitgestel word tot so naby aan, maar beslis voor, die eerste reën.

Die beheer van die bogenoemde onkruid mag nadelig beïnvloed word onder die volgende toestande:

- ❖ Swak voorbereide saadbed.
- ❖ Gronde met 'n pH (H<sub>2</sub>O) van minder as 5.0 en 'n organiese materiaalinhoud van meer as 3%.
- ❖ Droë toestande direk na toediening of tekort aan voldoende reën op swaar gronde.

#### METODE VAN WERKING

Diklosulam inhibeer die asetolaktaatsintese (ALS) ensiem. Die primêre plek van werking is binne die chloroplaste binne-in die meristeme van die plant.

#### GEBRUIKSAANWYSINGS

Gebruik slegs soos aangedui.

#### VERENIGBAARHEID

Die verenigbaarheid van **ENVOY** met ander produkte sal van die formulering van die onderskeie produkte afhang, asook van die kwaliteit van die verdunningswater wat gebruik word. Soos formulering van tyd tot tyd verander, is dit raadsaam om eers 'n fisiese verenigbaarheidstoets te doen, voordat tenkingsels gemaak word. Moenie met enige produkte meng wat nie op hierdie etiket verskyn nie. **ENVOY** is verenigbaar met **UNIMOC EC, ACETAK EC, TORPEDO SC, ICHIBAN 100 EW** en **ZENIT**.

Indien ander produkte saam met **ENVOY** in 'n spuitprogram gebruik word, moet die etikette van daardie produkte geraadpleeg word vir die aanwysings en beperkings op toedienings en gewasrotasie-aanbevelings. Raadpleeg 'n Meridian Agritech verteenwoordiger vir besonderhede.

## MENG- EN TOEDIENINGSINSTRUKSIES

Vul die spuitenk halfvol met geskikte water en voeg dan die verlangde hoeveelheid **ENVOY** by die spuitwater terwyl dit geroer word. Maak spuitenk tot by die verlangde volume vol. Indien tenkingsels met ander onkruidodders gemaak word, moet die onderskeie vervaardiger se etiketaanbevelings gevolg word. **Tenkingsels moet onmiddellik uitgespuit word en nie toegelaat word om in die spuitenk oornag te staan nie.** Spuittoerusting moet deeglik aan die einde van die spuitproses uitgespoel word.

**Verseker konstante en deeglike roering tydens vermenging en toediening.**

## TOEDIENINGSMETODES

### Na-plant vooropkoms

Wanneer in klam grond geplant word, moet **ENVOY** in 'n mengsel van **ACETAK EC, UNIMOC EC** of **TORPEDO SC** binne **drie dae na plant** (maar verkieslik met plant) op 'n fyn, egalige, ferm en vars voorbereide saadbed, vry van onkruid, oormatige plantreste en groot kluite, toegedien word. Die onkruidoddermengsel moet nie later as drie dae na die finale bewerking vir saadbedvoorbereiding toegedien word nie.

Enige afwyking van die bogenoemde saadbedtoestande en/of toedieningstyd mag tot veswakte onkruidbeheer lei. Om goeie resultate te verkry is dit ook noodsaaklik dat die onkruidodertoediening binne sewe dae met 12 – 15 mm reën of besproeiing opgevolg word voordat die onkruid opkom. Indien dit nie betyds reën nie, en die onkruid begin al opkom en ontwikkel, moet 'n vlakbewing uitgevoer word om hierdie onkruid te vernietig en om die onkruidodder met die boonste 10 – 20 mm grondlagie te vermeng. Bewingstoerusting wat aangepas is om vlak te bewerk en minimum grondversteuring te veroorsaak sal die moontlikheid van verdunning of verwydering van die onkruidodder uit die onkruidbeheersone verminder.

Die gebruik van 'n roltandeg in dieselfde rigting as die plantrye mag gewasopkoms bevorder indien grondkorsvorming 'n probleem is. Beperk grondversteuring. Om moontlike gewasstremming van die gewas a.g.v. voedingstekorte te vermy en om kragtige aanvanklike gewassaailinggroei te bevorder, verseker dat voldoende kunsmis tydens plant by die saad geplaas word.

### Grondtoediening (Na-plant vooropkoms)

**ENVOY** in 'n mengsel met komplementerende produk(te) soos aanbeveel kan toegedien word met enige medium of hoë volume spuittoerusting wat korrek gekalibreer is en met 'n doeltreffende roermeganisme toegerus is. Die keuse en rangskikking van die waaiertipe spuitpunte moet sodanig wees dat egalige verspreiding en optimale herwinning van die onkruidodder verkry word. Die aanbevole hoeveelheid **ENVOY** in 'n mengsel met komplementerende produk(te) moet in ten minste 200 l water/ha as 'n breedwerpige toediening toegedien word. Indien strookbehandeling gebruik word, moet die hoeveelheid spuitmengsel dienooreenkomstig per hektaar verminder word.

## AANBEVELINGS

### GRONDBONE (Vooropkoms)

#### ENVOY + UNIMOC EC

% KLEI	ENVOY (mℓ / ha)	UNIMOC EC (mℓ / ha)
0-10	40	900
11-20	60	1200
21-30	80	1500

#### ENVOY + TORPEDO SC

% KLEI	ENVOY (mℓ / ha)	TORPEDO SC (mℓ / ha)
0-10	20	35

11-20	30	50
21-30	40	62.5

#### ENVOY + UNIMOC EC + TORPEDO SC

% KLEI	ENVOY (mℓ / ha)	UNIMOC EC (mℓ / ha)	TORPEDO SC (mℓ / ha)
0-10	20	900	35
11-20	30	1200	50
21-30	40	1500	62.5

#### ENVOY + ACETAK EC

% KLEI	ENVOY (mℓ / ha)	ACETAK EC (mℓ / ha)
0-10	40	750
11-20	60	1000
21-30	80	1500

#### SOJABONE (Vooropkoms)

#### ENVOY + UNIMOC EC

% KLEI	ENVOY (mℓ / ha)	UNIMOC EC (mℓ / ha)
0-10	40	800
11-20	60	900
21-30	80	1200
31-40	100	1500
>40	120	1500

#### ENVOY + TORPEDO SC

% KLEI	ENVOY (mℓ / ha)	TORPEDO SC (mℓ / ha)
0-10	20	35
11-20	30	50
21-30	40	62.5
31-40	Nie aanbeveel nie	Nie aanbeveel nie
>40	Nie aanbeveel nie	Nie aanbeveel nie

#### ENVOY + ACETAK EC

% KLEI	ENVOY (mℓ / ha)	ACETAK EC (mℓ / ha)
0-10	40	750
11-20	60	1000
21-30	80	1500

#### ERKENNING VAN HANDELSMERKE

Unimoc EC (L.7341)  
 Torpedo SC (L7655)  
 Acetak EC (L 6904)

Meridian Agrochemical Company (Edms.) Bpk.  
 Meridian Agrochemical Company (Edms.) Bpk.  
 Meridian Agrochemical Company (Edms.) Bpk.