

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Herbicide



RIFLE 480 EC

Reg. No. L 8137 Act/Wet No. 36 of/van 1947

6: 29/6/2012 – May 2017

*A selective emulsifiable concentrate herbicide for pre-plant soil incorporation for the control of annual grasses and some broadleaf weeds in crops as indicated.*

*'n Selektiewe emulgeerbare konsentraat onkruidodder vir voorplant grondinwerking vir die beheer van eenjarige grasse en sommige breëblaaronkruid in gewasse soos aangedui.*

**ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL**  
trifluralin (dinitroaniline) **480 g/l** trifluralin (dinitroanilien)

HRAC HERBICIDE GROUP CODE **K1** HRAC ONKRUIDDODER GROEPPKODE



**villa**

Registration holder / Registrasiehouer:

Villa Crop Protection (Pty) Ltd.

Co. Reg. No. / Mpy. Reg. Nr. 1992/002474/07

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UN Number: 1993

Willow Set & Print 011 394-4486



CAUTION  
VERSIGTIG



GEBRUIKSAANWYSYNGS INGESLUIT

VERWYS NA BESONDERHEDE  
GEDRUK OP HOUER/SAK

Date formulated:

Formuleringsdatum:

DIRECTIONS FOR USE ENCLOSED

REFER TO DETAILS PRINTED

ON CONTAINER/BAG

Batch number:

Lotnommer:

**RIFLE 480 EC**

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trifluralin (dinitro aniline) / trifluralin (dinitroanilien).....480 g/l

Registration holder / Registrasiehouer:

**VILLA CROP PROTECTION (PTY) LTD.**

Co. Reg. No. 1992/002474/07 Mpy. Reg. Nr.

PO Box / Posbus 10413

ASTON MANOR, 1630

Tel. (011) 396 2233

**CAUTION / VERSIGTIG****WARNINGS**

- Poisonous if swallowed.
- Toxic to fish.
- **Flammable** - keep away from heat and flames.
- Store in a cool place, away from food, feeds, seed, fertilizers and other agricultural remedies.
- Do not allow the product to freeze.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated area until spray deposit has dried unless wearing protective clothing.

**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 further 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 event of any uncertainty.**

**PRECAUTIONS**

- Avoid inhalation of the spray mist.
- Wear a face shield and rubber gloves when handling the concentrate and during mixing.
- Wash with soap and water after use or accidental skin contact.
- Wash contaminated clothes daily after use.
- Do not eat, drink or smoke whilst mixing or applying or before washing hands and face and change of clothing.
- Prevent spray drift onto other crops, grazing, rivers, dams or areas not under treatment.
- Clean the applicator thoroughly after use and dispose of wash water where it will not contaminate food, grazing, boreholes, rivers or dams.
- **TRIPLE RINSE** empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow draining 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 a minimum of a third of that of the container. Add the rinsing to the contents of the spray tank before destroying the container in the prescribed manner.
- Destroy the container by perforation and flattening and dispose of it in a safe way.
- **Do not** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

**RESISTANCE WARNING**

**RIFLE 480 EC** is a group code K1 herbicide. Any weed population may contain individuals naturally resistant to **RIFLE 480 EC** and other group code K1 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. **RIFLE 480 EC** or any other group code K1 herbicide may not control these resistant weeds.

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 the registration holder of this product.

### **USE RESTRICTIONS**

- In addition to the listed crops, the following crops may also be planted **directly** after a treated field has been harvested: Beet, Brassicaceae, Carrots, Castor Oil, Celery, Cowpeas, Cucurbits, Fruit Trees, Mint, Ocra, Potatoes, Safflower, Sugarcane and Tomatoes.
- All other crops need a **waiting period** of at least **12 months** between treatment and planting, **except** for Grain sorghum, which need **18 months**.
- Periods of cold weather after planting the crop may lead to phytotoxicity, e.g. in the case of early season plantings.
- Do not use in the winter rainfall area, on crops planted in winter.

### **DIRECTIONS FOR USE: Use only as indicated.**

#### **Compatibility:**

- The compatibility of **RIFLE 480 EC** in a tank mixture with other products is influenced by the formulations of these products, as well as quality of the spray water. It is recommended that a physical compatibility test always be performed prior to application, as the formulation of other products can be altered, and the quality of water can vary from area to area.
- **RIFLE 480 EC** has been found compatible with **DISGRAN 750 WDG** and **WRESTLER 800 EC**.

#### **Application Instructions:**

- **RIFLE 480 EC** is easily decomposed by sunlight and must, therefore, be incorporated into the soil immediately (within 10 minutes), after it has been sprayed evenly onto the surface, in about 150 to 500 litres water per hectare, at low pressure. The most advantageous method is to mount the spray boom in front of the tractor and pull a disc harrow with the same tractor.
- It is important to incorporate very thoroughly into the top 5 to 10 cm of soil. Set the discs to penetrate to a depth of 10 to 15 cm.
- In the case of groundnuts, incorporate less deeply (depth of 3 to 5 cm), cutting 6 to 10 cm deep.
- Shallow incorporation with implements set to cut less than 5 cm deep, may give erratic weed control.
- Thorough incorporation may be achieved with P.T.O. driven rotary tillers or an offset or tandem disc (alone or with spike-tooth harrow in tandem), disking the field twice, the second time at right angles with the first time.
- Clods must be broken up, because the weed seeds in untreated clods may germinate unaffected.
- **RIFLE 480 EC** has a long residual action and may be incorporated at any convenient time from 2 to 3 weeks before planting time, before the rush spring season starts, up to the day of planting.
- **RIFLE 480 EC** will not leach out of the soil, not even under conditions of high rainfall or irrigation.
- **RIFLE 480 EC** may stunt or even reduce the stand of cotton seedlings, affected by soil borne diseases. To control seedling diseases, apply a fungicide in the planting row and use treated seed.

**APPLICATION RATES**

<b>Crop</b>	<b>Dosage rates l or g / ha</b>	<b>Remarks</b>	
<b>Wheat and Barley</b> Application for control of resistant Rye grass.  <u>Pre-plant application:</u> 0 to 25 % clay	1.0 l to 2.0 l	Apply as an overall application and incorporate by means of a suitable planter within 10 minutes as described below under <b>"IMPORTANT NOTES &amp; USE RESTRICTIONS"</b> . <b>Do not</b> use in fields which was sown with wheat and barley but only in fields which are planted. Apply the higher rate where a high infestation of <i>Lolium</i> spp. is expected. Grass species, other than <i>Lolium</i> spp. might be controlled unsatisfactory. Use other herbicides from a different chemical group in such cases.	
<b>Wheat and Barley</b> Application for control of resistant rye grass.  <u>Pre plant application:</u> <b>RIFLE 480 EC</b>  <b>PLUS</b>  <b>Wrestler 800 EC</b>  <b>OR</b>	1.5 l  <b>PLUS</b>  2.0 l	All treatments to be applied pre-plant, pre-emergence.	
<b>RIFLE 480 EC</b>  <b>PLUS</b>  <b>Wresler 800 EC</b>  <b>PLUS</b>  <b>Disgran 750 WDG</b>	1.5 l  <b>PLUS</b>  2.0 l  30 g		
<u>Split pre &amp; post plant application:</u> <b>RIFLE 480 EC pre-plant followed post plant* by</b>  <b>Wrestler 800 EC</b>  <b>OR</b>	1.5 l  2.0 l  <b>OR</b>		Recommended under high rye grass infestation pressure and for improved control of weeds within the row.  Apply <b>RIFLE 480 EC</b> pre-plant and follow-up within 3 days after planting with <b>Wrestler 800 EC</b> , pre-emergence of weeds.  <b>Disgran 750 WDG</b> can be added to the post-plant application for improved broadleaf weed control.
<b>RIFLE 480 EC pre-plant followed post plant* by</b>  <b>Wrestler 800 EC</b>  <b>PLUS</b>  <b>Disgran 750 WDG</b>	1.5 l  2.0 l  <b>PLUS</b>  30 g		

\* - Post-plant application (within 2 to 3 days after planting), but still pre-emergence of weeds and crop.

**WHEAT AND BARLEY - IMPORTANT NOTES & USE RESTRICTIONS:**

- Consult the labels of **Procarb 800 EC** and **Disgran 750 WG** for **USE RESTRICTIONS, WARNINGS (including RESISTANCE WARNINGS), PRECAUTIONS** and **DIRECTIONS FOR USE**.
- **Weeds controlled:**
  - **Wrestler 800 EC** will control ryegrass, including ALS/ACCase resistant ryegrass.
  - Wild oats (*Avena* spp.) and Rippgut brome (*Bromus diandrus*) may also be suppressed by application of **RIFLE 480 EC** in combination with **Wrestler 800 EC**.
  - Refer to the labels of **Wrestler 800 EC** and **Disgran 750 WG** for a list of weed species controlled by these products.
- **RIFLE 480 EC** is selective in wheat and barley if used correctly as recommended. It is of utmost importance that the following user restrictions be considered to prevent damage to the crop:
  - **RIFLE 480 EC** can only be applied if planting afterwards is done with an Ausseeder (Ausplow), Voorplanter or a similar planter.
  - The planting speed should be 5 to 6 kph. Ideally the planter speed must be such that the planter throws soil over the area in between the rows, but not onto the adjacent row as this can cause damage to crops.
  - **RIFLE 480 EC** cannot be used on soils which slope to such an extent that treated soil lands on adjacent rows when planting.
  - **RIFLE 480 EC** cannot be used in broadcast sown cereals.
  - **RIFLE 480 EC** will give poor results on very stony soils.
  - Where minimum tillage is practiced stubble should be burned before planting.
  - **RIFLE 480 EC** can only be used in a programme with other herbicides.
  - Any weeds that have emerged before planting should be sprayed with **Glyphosate**.
  - Take note of the waiting periods above before the follow-up crop is to be planted.

<b>Crop / Soil Type</b>	<b>Dosage / ha</b>	<b>Remarks</b>
<b>Groundnuts</b> (Natal common and other Spanish upright types)		
0 to 10 % clay	0.75 ℓ	Apply before planting and incorporate into the soil within 10 minutes. The treated fields may be weeded mechanically and tilled lightly during the season, without affecting the efficiency of <b>RIFLE 480 EC</b> adversely.
11 to 20 % clay	1.0 ℓ	
<b>Cotton, Dry Beans, Cowpeas, Carrots, Sunflowers, transplanted Cabbages &amp; Tomatoes &amp; Chillies</b>		
0 to 15 % clay	1.0 ℓ	Apply before planting and incorporate into the soil within 10 minutes. The treated fields may be weeded mechanically and tilled lightly during the season, without affecting the efficiency of <b>RIFLE 480 EC</b> adversely.
16 to 35 % clay	1.5 ℓ	
36 to 55 % clay	2.0 ℓ	
<b>Stone Fruit, Pome Fruit, Vineyards, Guavas, Citrus, Macadamias &amp; Pecans</b>		
0 to 30 % clay	8.0 ℓ	Overall application: Use accordingly less for band treatment.
<b>Canola</b>	1.5 ℓ	Apply pre-plant pre-emergence and plant with recommended wheat planters. Can also be applied pre-plant pre emergence, incorporated and planted with ordinary planters or sown.

**SOME WEED SPECIES NORMALLY CONTROLLED BY RIFLE 480 EC:****Grass species:**

<i>Brachiaria eruciformis</i>	Sweet signal grass
<i>Bromus unioloides</i>	Rescue grass
<i>Cenchrus incertus</i>	Mat sandbur
<i>Chloris virgata</i>	Feather-top Chloris
<i>Dactyloctenium aegyptium</i>	Crowfoot
<i>Digitaria sanguinalis</i>	Crabfinger-grass
<i>Digitaria ciliaris</i>	Finger grass
<i>Echinochloa crusgalli</i>	Barnyard grass
<i>Echinochloa colona</i>	Jungle rice
<i>Eleusine indica</i>	Goose grass
<i>Eragrostis cilianensis</i>	Stink lovegrass
<i>Eragrostis aspera</i>	Rough lovegrass
<i>Panicum schinzii</i>	Vlei Panicum
<i>Poa annua</i>	Annual bluegrass
<i>Setaria pallide-fusca</i>	Red bristle grass / Horse grass
<i>Setaria verticillata</i>	Bur bristle grass
<i>Sorghum halepense</i>	Johnson grass (from seed)
<i>Tragus racemosus</i>	Large (Stalked) carrotseed grass
<i>Urochloa panicoides</i>	Garden Urochloa

**Broadleaf species:**

<i>Amaranthus deflexus</i>	Pigweed
<i>Amaranthus hybridus</i>	Cape pigweed
<i>Amaranthus spinosus</i>	Thorny pigweed
<i>Amaranthus thunbergii</i>	Red pigweed
<i>Chenopodium album</i>	White goosefoot
<i>Polygonum aviculare</i>	Prostrate knotweed
<i>Portulaca oleracea</i>	Purslane
<i>Stellaria media</i>	Chickweed
<i>Tribulus terrestris</i>	Common dubbeltjie

The following products mentioned in this label may be replaced with equivalent products:

- **RIFLE 480 EC** (L 8137) = **TRIFLURALIN 480 EC** (L 4555),
- **WRESTLER 800 EC** (L 8758) = **PROCARB 800 EC** (L 8746) = **PROSUL 800 EC** (L 9173) and
- **DISGRAN 750 WDG** (L 7473) = **TRIASON 750 WDG** (L 7472) = **TRIASULFURON 75 WDG** (L 10038).

**DISGRAN 750 WDG, WRESLER 800 EC** and/en **RIFLE 480 EC** are registered products of / is geregistreerde produkte van  
**VILLA CROP PROTECTION (PTY) LTD.**

**TRIFLURALIN 480 EC, PROCARB 800 EC** and/en **TRIASON 750 WDG** are registered products of / is geregistreerde produkte van  
**UNIVERSAL CROP PROTECTION (PTY) LTD.**

**TRIASULFURON 75 WDG** and/en **PROSUL 800 EC** are registered products of / is geregistreerde produkte van  
**CROPASURE (PTY) LTD.**