

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

Herbicide



# TRIFLURALIN 480 EC

Reg. No. L 4555 Act No. 36 of 1947

8: 28/7/2022 – Nov2022

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

## ACTIVE INGREDIENT

trifluralin (dinitro aniline)

480 g/l

GROUP

3

HERBICIDE



### WARNING

#### Hazard Statements:

Flammable liquid and vapour.  
May be harmful in contact with skin.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation. Suspected of causing cancer.  
Very toxic to aquatic life.  
May cause long lasting harmful effects to aquatic life.

#### Precautionary Statements:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Avoid release into the environment.

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**villa**



UN Number: 1993

Registration holder: UNIVERSAL CROP PROTECTION (PTY) LTD.  
Co. Reg. No.1983/008184/07  
P.O. Box 801, Kempton Park 1620  
Tel. (011) 396 2233  
Website: [www.villacrop.co.za](http://www.villacrop.co.za)

#### 24 HR EMERGENCY NUMBERS:

Griffon Poison Centre: +27 82 446 8946

24 HR Transport / Spill Emergency no: (Hazcall24) +27 86 044 4411

(Client: Villa Crop Protection)

DIRECTIONS FOR USE ENCLOSED

Batch Number:

Date of Manufacture:

**TRIFLURALIN 480 EC**

Reg. No. L 4555 Act No. 36 of 1947  
 HRAC HERBICIDE GROUP CODE: 3

**ACTIVE INGREDIENT:**

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**WARNINGS****Hazard statements:**

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Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Suspected of causing cancer.
Very toxic to aquatic life.
May cause long lasting harmful effects to aquatic life.

- Poisonous if swallowed.
- 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****Precautionary statements:**

Obtain, read and follow all safety instructions before use.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment.
Use non-sparking tools.
Avoid breathing dust, fumes, mists, gas, vapours or spray.
Wash hands thoroughly after handling. Do not touch eyes.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release into the environment.
Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
IF ON SKIN: Get medical help. Wash with plenty of water and non-abrasive soap.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [shower].
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned, get medical advice.

If skin irritation occurs get medical help.
If eye irritation persists: Get medical help.
Take off contaminated clothing and wash it before reuse.
In case of fire: Use carbon dioxide or dry chemical for small fires and water fog or foam for large fires.
Collect spillage.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of content/container to suitable landfill in accordance with local regulations.

- 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 applicator thoroughly after use and dispose of wash water where it will not contaminate food, grazing, boreholes, rivers or dams.
- **TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS:** Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler ([www.croplife.co.za](http://www.croplife.co.za)). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.
- **Do not** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

<b>Relevant hazardous components</b>	
<b>Trifluralin</b>	47.44 %
Burtemal F1	< 10 %
Xylene	< 10 %

### **FIRST AID TREATMENT**

Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure. If irritation develops consult a doctor.

**Inhalation:** Move victim to fresh air and remove source of contamination if safe to do so. Keep affected person warm and at rest. Obtain medical attention if irritation develops.

**Skin:** Remove contaminated clothing and shoes. Wash skin gently and thoroughly with cold water and non-abrasive soap. Obtain medical attention if irritation persists.

**Eyes:** Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after five (5) minutes and continue rinsing. Seek medical attention if irritation develops.

**Ingestion:** If the person is alert, have them drink large amounts of water. Do not give anything by mouth to an unconscious person. Do NOT induce vomiting unless instructed to do so by a poison control centre or doctor. Seek medical attention or call a poison control centre for treatment advice immediately.

### **RESISTANCE WARNING**

**TRIFLURALIN 480 EC** is a group 3 herbicide. Any weed population may contain individuals naturally resistant to **TRIFLURALIN 480 EC** and other group 3 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. **TRIFLURALIN 480 EC** or any other group 3 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, Oca, 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.

**Mode of action:** Selective, non-systemic herbicide, absorbed by the hypocotyl in seedlings. Inhibits root development through the inhibition of microtubule polymerization, disrupting cell division.

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

**Compatibility:**

- The compatibility of **TRIFLURALIN 480 EC** in a tank mixture with other products is influenced by the formulations of these products, as well as quality of spray water. It is recommended that the physical compatibility test always be performed prior to application, as the formulation of other products can be altered, and the quality of the water can vary from area to area.
- **TRIFLURALIN 480 EC** has been found compatible with **DISGRAN 750 WDG** (L 7473) (**Triasulfuron**) and **WRESTLER 800 EC** (L 8758) (**Prosulfocarb**).

**Mixing Instructions:**

- **TRIFLURALIN 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.
- **TRIFLURALIN 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.
- **TRIFLURALIN 480 EC** will not leach out of the soil, not even under conditions of high rainfall or irrigation.
- **TRIFLURALIN 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 / Soil Type</b>	<b>Dosage / ha</b>	<b>Remarks</b>
<b><u>Wheat and Barley</u></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>Crop / Soil Type</b>	<b>Dosage / ha</b>	<b>Remarks</b>
<b>Wheat and Barley</b> Application for control of resistant rye grass.  <b>Pre-plant application:</b> <b>TRIFLURALIN 480 EC</b>  <b>PLUS</b>  <b>Wrestler 800 EC</b>  <b>OR</b>	  1.5 ℓ  <b>PLUS</b>  2.0 ℓ  <b>OR</b>	All treatments to be applied pre-plant, pre-emergence.
<b>TRIFLURALIN 480 EC</b>  <b>PLUS</b>  <b>Wrestler 800 EC</b>  <b>PLUS</b>  <b>Disgran 750 WDG</b>	1.5 ℓ  <b>PLUS</b>  2.0 ℓ  <b>PLUS</b>  30 g	
<b>Split pre- &amp; post-plant application:</b> <b>TRIFLURALIN 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>TRIFLURALIN 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>TRIFLURALIN 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 **Wrestler 800 EC** and **Disgran 750 WDG** 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 Ripgut brome (*Bromus diandrus*) may also be suppressed by application of **TRIFLURALIN 480 EC** in combination with **Wrestler 800 EC**.
  - Refer to the labels of **Wrestler 800 EC** and **Disgran 750 WDG** for a list of weed species controlled by these products.
- TRIFLURALIN 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:
  - TRIFLURALIN 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 kilometres per hour. 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.
  - TRIFLURALIN 480 EC** cannot be used on soils which slope to such an extent that treated soil lands on adjacent rows when planting.
  - TRIFLURALIN 480 EC** cannot be used in broadcast sown cereals.
  - TRIFLURALIN 480 EC** will give poor results on very stony soils.
  - Where minimum tillage is practiced stubble should be burned before planting.
  - TRIFLURALIN 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.

Crop / Soil Type	Dosage / ha	Remarks
<b><u>Groundnuts</u></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>TRIFLURALIN 480 EC</b> adversely.
11 to 20 % clay	1.0 ℓ	
<b><u>Cotton, Dry Beans, Cowpeas, Carrots, Sunflowers, transplanted Cabbages &amp; Tomatoes &amp; Chillies</u></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>TRIFLURALIN 480 EC</b> adversely.
16 to 35 % clay	1.5 ℓ	
36 to 55 % clay	2.0 ℓ	
<b><u>Stone Fruit, Pome Fruit, Vineyards, Guavas, Citrus, Macadamias &amp; Pecans</u></b>		
0 to 30 % clay	8.0 ℓ	<u>Overall application:</u> Use accordingly less for band treatment.
<b><u>Canola</u></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.

<b>SOME WEED SPECIES NORMALLY CONTROLLED BY TRIFLURALIN 480 EC:</b>	
<b>Grass species:</b>	
<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
<b>Broadleaf species:</b>	
<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

**DISGRAN 750 WDG** and **WRESTLER 800 WDG** are registered products of  
**VILLA CROP PROTECTION (PTY) LTD.**