

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Herbicide



ESCULENTUS 720 EC

Reg. No. L 8033 Act/Wet No. 36 of/van 1947

2:25/6/2015 - May 2017

An emulsifiable concentrate herbicide with dichlormid, which must be incorporated into the soil, for the control of Nutsedges, annual grasses and certain broadleaf weeds in crops as listed.

'n Emulgeerbare konsentraat onkruidodder met diklormied, wat in die grond ingewerk moet word, vir die beheer van Uintjies, eenjarige grasse en verskeie breëblaaronkruid in gewasse soos aangedui.

ACTIVE INGREDIENTS / AKTIEWE BESTANDEDELE

EPTC (thiocarbamate)	720 g/l	EPTC (tiokarbamaat)
dichlormid (safener)	76 g/l	diklormied (beveiligter)

HRAC HERBICIDE GROUP CODE **N** HRAC ONKRUIDDODER GROEPKODE

GERBUKSAANWYSYNGS 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:



villa

Registration holder / Registasiehouer:

Villa Crop Protection (Pty) Ltd.

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

PO Box / Posbus 10413, Aston Manor, 1630

Tel: 011 396 2233

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UN Number: 3006



Willow Set & Print 011 394-4486



HARMFUL
SKADELIK



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Registration holder / Registrasiehouer:

VILLA CROP PROTECTION (PTY) LTD.

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

P.O. Box / Posbus 10413, ASTON MANOR, 1630,

Tel. (011) 396 2233

HARMFUL**SKADELIK****WARNINGS**

- Handle with care.
- Poisonous by swallowing.
- Severe irritant to the eyes and moderate irritant to skin.
- Store in a cool place, away from food, feeds, seed, fertilizers and other agricultural chemicals.
- Keep under lock and key.
- Keep out of reach of children, uninformed persons and animals.
- **In case of poisoning call a doctor immediately and make this label available to him/her.**

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

- Do not inhale the spray mist.
- Wear suitable protective clothing, gloves, boots and a face shield when handling the concentrate.
- Do not eat, drink or smoke whilst applying or mixing or before washing hands and face or change of clothing.
- Wash with soap and water after use and accidental skin contact.
- Prevent spray drift onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean the applicator 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 empty container by perforation and flattening and dispose of it in a safe way.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.
- Keep container closed when not in use.

SYMPTOMS OF POISONING

Skin and eye irritation. May cause irritation to respiratory tract. The solvent in product may cause pulmonary injury.

FIRST AID TREATMENT

- **Inhalation:** Remove the patient immediately from the source of poisoning to a cool, well-ventilated area and keep him/her calm and reassured.
- **Eye contact:** Wash eyes with running water for at least 20 minutes while holding eyelid(s) open. **If irritation persists get medical attention immediately.**
- **Skin contact:** Remove contaminated clothing. Wash contaminated areas with soap and water. **If irritation persists get medical attention immediately.**
- **Ingestion:** Do not induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration.
- **Do not** apply mouth-to-mouth respiration.
- **Never** give anything by mouth to an unconscious person.
- **Take the patient immediately to the nearest physician and show this label to him/her.**

NOTE TO PHYSICIAN

Product contains an aromatic hydrocarbon organic solvent. Treat symptomatically.

RESISTANCE WARNING

ESCULENTUS 720 EC is a group code N herbicide. Any weed population may contain individuals naturally resistant to **ESCULENTUS 720 EC** and other group code N herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **ESCULENTUS 720 EC** or any other group code N herbicide.

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 weeds control programmes.

For specific information on resistance management contact the registration holder of this product.

USE RESTRICTIONS

- **ESCULENTUS 720 EC** should only be used if soil conditions are suitable for fast germination of the crop.
- Do not use on seed maize, before consulting the seed supplier.
- Do not use as an overall spray on kidney beans.

DIRECTIONS FOR USE: Use only as directed.**Compatibility:**

ESCULENTUS 720 EC is compatible with **AGRIZINE 500 SC** (L 5387 / W 130121), **Cantron® 480 SC** and **Leap 840 SC**.

ESCULENTUS 720 EC is a herbicide, which must be incorporated into the soil just before planting and thoroughly mixed with the uppermost 10 to 15 cm soil layer, before planting takes place, or it should be injected into the soil at planting time with a suitable implement. Incorporation should take place within minutes after application and preferably in one operation, especially if the soil surface is moist.

Soil preparation:

The seedbed must be well prepared and free from clods, trash and weeds. All growing weeds, especially Nutsedges, must be destroyed before application, preferably by means of a tine implement.

Method of application:**Band application:**

Use an applicator, which will apply the **ESCULENTUS 720 EC** in the recommended manner. Calibrate carefully under the actual field conditions, before use. Check application rates during application.

Overall application:

For overall weed control, apply **ESCULENTUS 720 EC** as an overall spray to a well-prepared seedbed, free of growing weeds. Ensure that the herbicide is thoroughly mixed within minutes, with the top 10 to 15 cm of soil. Application and incorporation should preferably be performed in one operation. Incorporation may be achieved by using a tandem disc or offset disc to cut to a depth of at least 15 cm operated at a speed of 7 to 8 km per hour, followed by a reversed spike tooth harrow or some levelling device, which extends beyond the ends of the disc. For thorough mixing, cross disc as soon as possible. Prior to the second disking, adjust the disc to prevent cutting deeper than the first disking. Apply the recommended quantity of **ESCULENTUS 720 EC** in 200 to 450 litres of water per hectare.

APPLICATION RATES

1. MAIZE

1.1 Pre Plant Incorporated application of EPTC PLUS 720 EC alone

Crop / Soil type	Dosage / ha	Remarks
Maize 0 to 10 % clay	2.0 ℓ	Overall application: Sowing can take place immediately after application, as soon as possible, in order to obtain the maximum period of weed control. If it is necessary to cultivate following application and incorporation, do not work the soil deeper than the depth to which the herbicide was incorporated. For prolonged broadleaf weed control, Agrizine 500 SC may be applied in a mixture with ESCULENTUS 720 EC . Incorporate as above or apply separately either in a band or overall application. In both cases 2/3 of the recommended rate of Agrizine 500 SC has been found to be adequate, for the control of most broadleaf weeds. IMPORTANT Consult the Agrizine 500 SC label regarding “ WARNINGS, PRECAUTIONS and RATES ”.
11 to 15 % clay	2.5 ℓ	
16 to 20 % clay	3.0 ℓ	
21 to 25 % clay	3.5 ℓ	
26 to 30 % clay	4.0 ℓ	
> 30 % clay	-	Not recommended.
Band application: In proportion to the recommendations for overall application		Band application: To obtain a 45 cm wide band of weed control, apply ESCULENTUS 720 EC 4 to 6 cm deep, using a suitable applicator, i.e. 4 sub-surface jets 8 and 17 cm on either side of the sown rows, or by means of a suitable sweep mounted on the planter.

1.2 Pre Plant Incorporated application of ESCULENTUS 720 EC plus Cantron® 480 SC and Leap 840 EC for improved grass and broadleaf weed control

ESCULENTUS 720 EC 2.0 to 4.0 ℓ/ha As per clay % indicated above	PLUS Cantron® 480 SC 200 ml / ha	PLUS Leap 840 EC 950 to 1200 ml / ha
Overall application: Apply as indicated above. Sowing can take place immediately after application, as soon as possible, in order to obtain the maximum period of weed control. If it is necessary to cultivate following application and incorporation, do not work the soil deeper than the depth to which the herbicide was incorporated.		
NOTES		
<ul style="list-style-type: none"> Use the higher dosage rate of Leap 840 EC where clay % is higher or higher weed pressure is expected. The spectrum of weeds controlled, as well as the period of weed control normally obtained with Cantron® 480 SC PLUS Leap 840 EC, may be reduced as the active ingredients are placed deeper into the soil compared to normal pre-emergence application where the active ingredients are washed into the top soil layer by rain or irrigation. Due to above-mentioned this application is NOT THE OPTIMAL recommendation especially in situations of high pressure of grass weeds. A full early post-emergence herbicide spray program should still be adhered to. 		
Refer to the Cantron® 480 SC and Leap 840 EC labels for complete list of weeds that are controlled pre-emergence by these products.		

Consult the **Cantron® 480 SC** and **Leap 840 EC** labels for **WARNINGS, PRECAUTIONS, USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

2. POTATOES, DRY BEANS, SUNFLOWERS, SUGARCANE

Crop / Soil type	Dosage / ha	Remarks
Potatoes 0 to 15 % clay	3.5 ℓ	Overall application: Apply the recommended rates of ESCULENTUS 720 EC as an overall spray and incorporate as described under maize. Draw furrows and plant as usual.
16 to 30 % clay	5.3 ℓ	
> 30 % clay	-	
Band application: In proportion to the recommendations for overall application		Band application: Place the fertilizer and seed in position and cover with 5 cm soil. The sidewalls of the furrows must not be so steep that the spray runs down. Apply as a band over the row and close the furrow within a few minutes, thus incorporating the ESCULENTUS 720 EC .
Dry beans (<i>Phaseolus vulgaris</i>) 0 to 10 % clay	1.5 ℓ	Overall application: Apply as described under maize. Initial retardation may occur, but plants will develop normally.
11 to 15 % clay	2.0 ℓ	
16 to 20 % clay	2.5 ℓ	
21 to 30 % clay	3.0 ℓ	
> 30 % clay	-	Not recommended.
Band application: In proportion to the recommendations for overall application		Band application: Apply only with sub-surface jets as described for maize.
Kidney beans (<i>Phaseolus coccineus</i>) 0 to 10 % clay	620 mℓ / 10000 m row length	Band application only. IMPORTANT Only band application is recommended for kidney beans. Under abnormal conditions, stunting of kidney beans may occur. Recommendations are in mℓ per 10000 m row length (45 cm band). Apply only with sub-surface jets as described under maize, but ensure that the 2 inner jets are 4 cm above the seed level.
11 to 30 % clay	780 mℓ / 10000 m row length	
> 30 % clay	-	
Sunflowers 0 to 15 % clay	-	Not recommended.
16 to 20 % clay	2.0 ℓ	IMPORTANT Retardation of sunflowers may occur in an early stage, but plants will recover normally by harvest. To prevent initial retardation sunflowers should be planted from 7 days after application. Apply as an overall treatment. ESCULENTUS 720 EC may only be used on Kort Rus selection.
21 to 30 % clay	3.0 ℓ	
> 30 % clay	-	
Sugarcane 0 to 15 % clay	3.0 ℓ	Apply the recommended rate of ESCULENTUS 720 EC as an overall application, only to plant cane and incorporate to a depth of 20 cm as described under maize. Planting should take place immediately after incorporation, in order to obtain the maximum period of weed control. Hand planting is recommended. If furrows are drawn during planting, ensure that furrows do not exceed a depth of 15 cm. This will prevent untreated soil from being brought to the surface. Should broadleaf weeds present a problem, contact your local representative for program recommendations. A low cost post-emergence application should be sufficient.
16 to 30 % clay	5.0 ℓ	
> 30 % clay	7.0 ℓ	

WEED CONTROL	
The following weeds will be effectively controlled under normal conditions:	
<i>Cyperus esculentus</i>	Yellow nutsedge
<i>Cyperus rotundus</i>	Red nutsedge
<i>Brachiaria eruciformis</i>	Sweet signal grass
<i>Chloris radiata</i>	Spiderweb Chloris
<i>Digitaria sanguinalis</i>	Crabfinger-grass
<i>Eleusine indica</i>	Goose grass
<i>Panicum schinzii</i>	Vlei Panicum
<i>Setaria pallide-fusca</i>	Garden bristle grass
<i>Setaria verticillata</i>	Bur bristle grass
<i>Tragus racemosus</i>	Carrotseed grass
<i>Urochloa panicoides</i>	Garden Urochloa
Control of the following broadleaf weeds may vary depending on climatic conditions. These weeds will be controlled ONLY if the correct dosage rate has been used and if conditions for control are good, i.e. well-prepared and fine seedbed followed by favourable soil conditions that benefit seed germination.	
<i>Amaranthus hybridus</i>	Cape pigweed
<i>Bidens pilosa</i>	Common black jack
<i>Chenopodium album</i>	White goosefoot
<i>Cleome monophylla</i>	Single-leaved Cleome
<i>Datura stramonium</i>	Common thorn apple
The following weeds are also controlled with a Pre Plant Incorporated application of ESCULENTUS 720 EC plus Cantron® 480 SC and Leap 840 EC. These weeds will be controlled ONLY if the correct dosage rate has been used and if conditions for control are good, i.e. well-prepared and fine seedbed followed by favourable soil conditions that benefit seed germination.	
<i>Datura ferox</i>	Large thorn apple
<i>Commelina benghalensis</i>	Bengal wandering jew
<i>Portulaca oleracea</i>	Purslane
<i>Schkuhria pinnata</i>	Dwarf marigold
<i>Tagetes minuta</i>	Khaki weed

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

- **CANTRON® 480 SC** (L 8365 / N-AR 1322 / W 130651) = **ASTRON® 480 SC** (L 8366) = **CANONNE 480 SC** (L 8735) (**Mesotrione**),
- **LEAP 840 EC** (L 8064 / N-AR 1103) = **PREMIUM 840 EC** (L 8066) = **ARMANN SUPER 840 EC** (L 8373),

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