

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Herbicide



LOTUS 480 SL

Reg. No. L 9599 Act/Wet No. 36 of/van 1947

1:16/7/2014 - Aug 2016

*A water-soluble herbicide with selective hormone action for the control of broad-leaved weeds in crops as indicated.*

*'n Wateroplosbare onkruidoder met selektiewe hormoonaksie vir die beheer van breëblaaronkruid in gewasse soos aangedui.*

**ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL**

dicamba (Benzoic compound) **480 g ae/l** dikamba (Bensoëverbinding)  
(dimethyl amine salt / dimetielamiensout)

HRAC HERBICIDE GROUP CODE **O** HRAC ONKRUIDDODER GROEPKODE



**villa**

Registration holder / Registrasiehouer:

Villa Crop Protection (Pty) Ltd.

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

PO Box / Posbus 10413, Aston Manor, 1630

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UN Number: 3082



**HARMFUL  
SKADELIK**

Willow Set & Print 011 394-4486



GEBRUIKSAANWYSLINGS INGESLUIT

VERWYS NA BESONDERHEDE  
GEDRUK OP HOUER/SAK

Date formulated:  
Formuleringsdatum:

REFER TO DETAILS PRINTED  
ON CONTAINER/BAG

Batch number:  
Lotnommer:

DIRECTIONS FOR USE ENCLOSED

**LOTUS 480 SL**

Reg. No. L 9599 Act/Wet No. 36 of/van 1947

HRAC HERBICIDE GROUP CODE / HRAC ONKRUIDDODER GROEPKODE: O

**ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL:**dicamba / dikamba (Benzoic compound / Bensoëverbinding) ..... 480 g ae/l  
dimethyl amine salt / dimetielamiensout)

Registration holder / Registrasiehouer:

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

Co. Reg. No. 19992/002474/07 Mpy. Reg. Nr.

P.O. Box / Posbus 10413

ASTON MANOR, 1630 Tel. (011) 396 2233

**HARMFUL****SKADELIK****WARNINGS**

- Harmful - handle with care.
- May cause irritation when inhaled and to eyes and skin upon contact.
- Toxic to fish.
- Allow 7 days between last application and grazing of treated areas.
- Store in a cool place, away from food, feeds, seed, fertilizers and other agricultural remedies.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated area within 1 day after treatment unless wearing protective clothing.
- **In case of poisoning call a doctor 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 products 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.
- Avoid contact with the skin and eyes.
- Wear a face shield, rubber gloves and boots when handling, preparing and applying the spray mixture.
- Wash contaminated clothes after use.
- Wash with soap and water after use and after accidental skin contact.
- Do not eat, drink or smoke whilst mixing or applying the product or before washing hands and face and change of clothing.
- Prevent drift onto other crops, grazing, rivers, dams or areas not under treatment or to nearby water sources.
- Clean the applicator with a household ammonia solution (1 %) before using other pesticides. Let the solution stand for several hours, preferably over-night. Rinse at least twice. This applicator should not be used for applying chemicals other than herbicides.
- Thoroughly clean the spraying equipment directly 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.

### **SYMPTOMS OF HUMAN POISONING**

Over-exposure to the product or swallowing excessive amounts may cause irritation.

### **FIRST AID TREATMENT**

- **Inhalation:** Remove source of contamination, or move person to fresh air as rapidly as possible. Keep affected person calm and reassured. Treat symptomatically and supportively. Only qualified personnel should perform administration of oxygen. Get medical attention immediately if condition persists.
- **Skin contact:** If irritation occurs, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts). Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Do not rub the skin. If irritation persists, seek medical advice immediately.
- **Eye contact:** Immediately flush eyes with gently flowing lukewarm water for 15 minutes or until the product is removed, holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. **Seek medical attention immediately.**
- **Ingestion:** Have patient rinse mouth thoroughly with clean water. Do not induce vomiting. If the person is alert and conscious, give 2 to 3 glasses of water to drink. **Seek medical advice immediately.**

### **NOTE TO PHYSICIAN**

There is no antidote available. Treat symptomatically and supportively.

### **RESISTANCE WARNING**

**LOTUS 480 SL** is a group code O herbicide. Any weed population may contain individuals naturally resistant to **LOTUS 480 SL** and any other group code O herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **LOTUS 480 SL** or any other group code O 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 weed control programmes.

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

### **USE RESTRICTIONS**

- Apply the product strictly in accordance with the application directions.
- **Follow-up crops:** Allow a waiting period of 28 days between application of **LOTUS 480 SL** and planting of follow-up broadleaf crops.
- **LOTUS 480 SL** is not recommended for use on seed maize, sweetcorn, popcorn and other exotic cultivars.
- After application, maize plants may become brittle and malformed, even during favourable weather conditions, but this is usually of a temporary nature. Under the following conditions, more severe damage to the crop may result depending on cultivar susceptibility:
  - **Under cold, wet and/or flooding conditions. Delay application if such weather is forecasted following application, as it may cause damage to the crop.**
  - Spray that land in the funnel area of the maize plants. Use **drop arms for directional spraying**, so that the spray does not land in the funnel area of maize plants.
  - When **LOTUS 480 SL** is used in tank mixtures with other herbicides, due to synergistic effect of the mixture.
- Stress conditions (drought, flooding) at time of application will result in poor weed control.
- **DO NOT spray LOTUS 480 SL PLUS Triazines once the crop reaches a height of 800 mm (approximately 20 days before tassel emergence).**
- To prevent damage, do not permit drift, vapour or spray mist to come into contact with sensitive broadleaf crops, fruit trees or ornamentals.

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

#### **Compatibility:**

- **LOTUS 480 SL** is compatible with **2,4-D Amine 480 SL, Cantron® 480 SC, TERBUSIEN SUPER 600 SC** (L 5435 / N-AR 1110), **Terbucide 600 WDG, Glygran 710 SG, Velocity®-Super** and **Velocity®-Drymax**. If tank mixtures with other products are made, first confirm compatibility by mixing small volumes of the products in the correct ratio with the appropriate quantity of water.

- Water quality and formulation properties of other products may influence compatibility.

#### Mixing and application:

- Fill the mixing / spray tank half with clean water and ensure agitation.
- Add **LOTUS 480 SL** to the tank and fill to the final required volume with water.
- **Always use LOTUS 480 SL in a mixture with one of the following products: Terbucide 600 WDG or Terbusien Super 600 SC and 2,4-D Amine 480 SL**, first mix the required amount of **Terbucide 600 WDG** or **Terbusien Super 600 SC** in a small volume of water, ensure complete dispersion and then add it to the mixing / spray tank. Thereafter add the required amount of **2,4-D Amine 480 SL** and **LOTUS 480 SL** to the tank and fill to the final required volume with water.
- Ensure continuous agitation throughout the mixing and application process.
- Spray the prepared spray mixture immediately and do not allow standing over e.g. overnight.

#### Post-emergence application:

- Spray before the crop becomes too dense, which will prevent proper coverage of the weeds.
- Spray when the crop is at a suitable stage of development, as indicated below, preferably when the weeds are in a young stage (before 6 leaf stage, or as indicated) and the soil is moist.

#### Ground application:

- The spray volume to be applied will depend on the spray equipment, but must exceed 150 litres spray mixture per hectare.
- Avoid fine droplet sizes – use low-pressure flat fan nozzles of 80 degrees or equivalent anti-drift type and do not exceed a spray pressure of 200 kPa (2 Bar).
- Do not exceed a spray height of 50 cm above target and ground speed of 10 km per hour.
- Do not apply if the wind velocity exceeds 15 km per hour.
- The difference between the wet and dry bulb readings on a whirling hygrometer must not exceed 8 °C.

### APPLICATION RATES

#### 1. MAIZE

#### 1.1 CONTROL OF ANNUAL BROADLEAF & GRASS WEEDS (PRE-PLANTING / ARABLE LAND) AND GENERAL WEED CONTROL

#### Application of LOTUS 480 SL in a tank mixture with Glygran 710 SG:

**LOTUS 480 SL** can be applied pre-plant in tank mixtures with **Glygran 710 SG** for improved control of certain broadleaf weeds.

<b>LOTUS 480 SL</b> 250 to 320 ml / ha	<b>PLUS</b>	<b>PLUS</b>
	<b>Glygran 710 SG</b> 1.0 to 1.5 kg / ha*	<b>Velocity®-Super (2.0 %)</b>  <b>OR</b> <b>Velocity®-Drymax (1.0 %)</b>
<b>WEEDS CONTROLLED</b>		
Refer to the Table where weeds are listed and the <b>Glygran 710 SG</b> label for lists of weeds controlled.		

## 1.2 MAIZE - POST-EMERGENCE CONTROL OF ANNUAL BROADLEAF WEEDS

<i>Crop</i>	<i>Dosage rate</i>	<i>Remarks</i>
<b>Maize</b> (post-emergence)	85 ml / ha  <b>PLUS</b>  250 ml / ha <b>2,4-D Amine 480 SL</b>  <b>PLUS</b>  1.7 l / ha <b>Terbusien Super 600 SC</b>  <b>OR</b>  1.7 kg / ha <b>Terbucide 600 WDG</b>	Refer “ <b>NOTES</b> ” below.
<b>NOTES</b>		
<b>Application in maize:</b>		
<ul style="list-style-type: none"> <li>Apply when weeds are in the 3 to 6 leaf stage. Apply from full emergence of the maize crop until a height of 30 cm has been reached.</li> <li>Use <b>drop arms for directional spraying</b> when the maize crop exceeds 30 cm in height to direct the spray beneath the leaf canopy of the maize.</li> <li>Ensure complete coverage of weeds.</li> <li>Maize plants may become brittle and malformed after application, but this is usually of a temporary nature.</li> </ul>		

## 1.3 LOTUS 480 SL IN TANK MIXTURE WITH CANTRON® 480 SC IN MAIZE

<b>LOTUS 480 SL</b> 320 ml / ha	<b>PLUS</b> 210 ml / ha <b>Cantron® 480 SC</b>
<ul style="list-style-type: none"> <li>Refer to the labels of the other products in the tank mixture for “<b>USE RESTRICTIONS</b>” and “<b>DIRECTIONS FOR USE</b>”.</li> <li>Refer to “<b>NOTES</b>”.</li> <li>“<b>Application in maize</b>” above.</li> </ul>	

## 1.4 LOTUS 480 SL IN TANK MIXTURE WITH CANTRON® 480 SC AND TRIAZINES IN MAIZE

<b>LOTUS 480 SL</b> 320 ml / ha	<b>PLUS</b> <b>Cantron® 480 SC</b> 210 ml / ha	<b>PLUS</b> 0.8 to 1.7 l / ha <b>Terbusien Super 600 SC</b>
<ul style="list-style-type: none"> <li>The adjuvant <b>Velocity®-Drymax</b> at the recommended label rate, must be used with all post-emergence applications of <b>LOTUS 480 SL</b> plus <b>Cantron® 480 SC</b> and <b>Terbusien Super 600 SC</b>.</li> <li>Refer to “<b>NOTES</b>”.</li> <li>“<b>Application in maize</b>” above.</li> </ul>		

### **NOTE**

Higher dosage rates of **Terbusien Super 600 SC** may be applied for control of additional broadleaf weed species, difficult to control weeds, high weed pressure situations and longer residual control of broadleaf weeds. Refer to the labels for dosage rates, and a list of additional weeds controlled by this product.

**SOME WEED SPECIES NORMALLY CONTROLLED WITH LOTUS 480 SL:**

<i>Amaranthus hybridus</i>	Cape pigweed
<i>Amaranthus deflexus</i>	Perennial pigweed
<i>Amaranthus thunbergii</i>	Red pigweed
<i>Bidens bipinnata</i>	Spanish blackjack
<i>Bidens pilosa</i>	Blackjack
<i>Chenopodium album</i>	White goosefoot
<i>Citrillus lanatus</i>	Wild watermelon
<i>Cleome monophylla</i>	Spindlepod
<i>Commelina benghalensis</i>	Wandering Jew
<i>Conyza bonariensis</i>	Fleabane
<i>Crotolaria sphaerocarpa</i>	Mealie crotolaria
<i>Datura ferox</i>	Large thorn apple
<i>Datura stramonium</i>	Thorn apple
<i>Galinsoga parviflora</i>	Small-flowered quick weed
<i>Ipomoea purpurea</i>	Common morning glory
<i>Nicandra physaloides</i>	Apple of Peru
<i>Physalis angulata</i>	Wild gooseberry
<i>Portulaca oleracea</i>	Purslane
<i>Schkurhria pinnata</i>	Dwarf marigold
<i>Tagetes minuta</i>	Tall khaki weed
<i>Tribulus terrestris</i>	Dubbeltjie
<i>Xanthium strumarium</i>	Cocklebur

**NOTE**

The above mentioned treatments of **LOTUS 480 SL**, as a standalone treatment or in mixture with **2,4-D Amine 480 SL** and/or triazines will also control or suppress emerged volunteer soybeans (standard or **Glyphosate** tolerant varieties) depending on the size of the plants at the time of application.

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

- **2,4-D-AMINE 480 SL** (L 4505 / W 130459 / N-AR 1096) = **AMINO 480 SL** (L 8034) = **2,4-D AMINE SL** (L 8145),
- **TERBUCIDE 600 WDG** (L 8799 / W 1301046) = **TERBUWEED 600 WDG** (L 8800) = **TERBUMAIS 600 WDG** (L 8798),
- **CANTRON® 480 SC** (L 8365 / N-AR 1323 / W 130651) = **ASTRON® 480 SC** (L 8366) = **CANONNE 480 SC** (L 8735),
- **VELOCITY®-SUPER** (L 9603) = **AMS-SUPER** (L 9758),
- **VELOCITY®-DRYMAX** (L 9454 / W 130995 / N-AR 1528) = **AMS-GRANULE** (L 9610) and
- **GLYGRAN 710 SG** (L 8449) = **SLASH 710 SG** (L 8450 / W 130058) = **LYNCH 710 SG** (L 8670).

**2,4-D-AMINE 480 SL, SLASH 710 SG** and/en **TERBUCIDE 600 WDG** are registered products of / is geregistreerde produkte van  
**UNIVERSAL CROP PROTECTION (PTY) LTD.**

**TERBUSIEN SUPER 600 SC, AMINO 480 SL, VELOCITY®-DRYMAX, VELOCITY®-SUPER, GLYGRAN 710 SG, AMS-SUPER, AMS-GRANULE** and/en **TERBUWEED 600 WDG** are registered products of / is geregistreerde produkte van  
**VILLA CROP PROTECTION (PTY) LTD.**

**2,4-D-AMINE SL, CANONNE 480 SC, LYNCH 710 SG** and/en **TERBUMAIS 600 WDG** are registered products of / is geregistreerde produkte van  
**CROPASURE (PTY) LTD.**

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