

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

SHAKE THE BOTTLE WELL BEFORE USE

Herbicide



CANTRON® SMART 500 SC

Reg. No. L 9834 Act/Wet No. 36 of/van 1947

1: 26/5/2015 – Aug2018

A suspension concentrate herbicide for the post-emergence control of weeds in Glyphosate tolerant maize.

'n Suspensie konsentraat onkruidodder vir die na-opkoms beheer van onkruid in Glifosaat tolerante mielies.

ACTIVE INGREDIENTS / AKTIEWE BESTANDELE

mesotrione (callistemone) **50 g/l** mesotrioon (callistemoon)
glyphosate (glycine) **450 g ae/l** glifosaat (glisien)
(*glyphosate potassium salt*) **555 g/l** (*glifosaat kaliumsoort*)

HRAC HERBICIDE GROUP CODE **F2** HRAC ONKRUIDDODER GROEPKODE
HRAC HERBICIDE GROUP CODE **G9** 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

Tel: 011 396 2233

Website / Webblad: www.villacrop.co.za

UN Number: 3082

Willow Set & Print 011 394-4486



CAUTION
VERSIGTIG



GEBRUIKSAANWYINGS INGESLUIT

VERWYS NA BESONDERHEDE
GEDRUK OP HOUER/SAK

Date formulated:
Formuleringsdatum:

REFER TO DETAILS PRINTED
ON CONTAINER/BAG

DIRECTIONS FOR USE ENCLOSED

Batch number:
Lotnommer:

CANTRON® SMART 500 SC

Reg. No. L 9834 Act/Wet No. 36 of/van 1947

HRAC HERBICIDE GROUP CODE / HRAC ONKRUIDDODER GROEPKODE: F2 + G9

ACTIVE INGREDIENT / AKTIEWE BESTANDEEL:

mesotrione (callistemone) / mesotrioon (callistemoon) 50 g/l
 glyphosate (glycine) / glifosaat (glisien) 450 g ae/l
 (glyphosate potassium salt / glifosaat kaliumsout)555 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****Withholding periods:**

Minimum time between the last application and harvest or grazing:	
Maize	56 days

- May cause eye and skin irritation.
- Store in a dry, cool well-ventilated place away from food, feeds, seed, fertilizers and other agricultural chemicals.
- 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 against the remedy concerned, 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 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.
- Avoid contact with the spray as far as possible.
- Wear protective clothing, a suitable mask, rubber gloves and boots when handling the product.
- In case of accidental contact with eyes, flush eyes immediately with running water for at least 15 minutes and get medical attention if necessary.
- In case of accidental contact with skin, flush with plenty of cold water and get medical attention if necessary.
- Do not eat, drink or smoke while mixing and applying, or before washing hands and face or change of clothing.
- Wash contaminated clothing daily.
- Avoid spray drift to susceptible crops, grazing, rivers, dams and areas not under treatment.
- Do not spray, drain or flush equipment on or near trees or plants or where their roots may extend.
- Thoroughly clean spraying equipment directly after use and dispose of wash water where it will not contaminate crops, grazing, boreholes, rivers, dams or areas not under treatment.
- **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.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

RESISTANCE WARNING

CANTRON® SMART 500 SC is a group code F2 + G9 herbicide. Any weed population may contain individuals naturally resistant to **CANTRON® SMART 500 SC** and other group code F2 + G9 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **CANTRON® SMART 500 SC** or any other group code F2 + G9 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.

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

CANTRON® SMART 500 SC is compatible with the following products: **Palladium 960 EC/Pentium 960 EC, Platinum 960 EC/Metolachlor 960 EC, Premium 900 EC/Acetoachlor 900 EC, Terbuweed 600 WDG/Terbucide 600 WDG, 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 instructions:

- **Shake the CANTRON® SMART 500 SC container thoroughly before mixing it with the water.**
- Only use clean water.
- Fill the spray or mixing tank with clean water and ensure agitation.
- Add **CANTRON® SMART 500 SC** slowly to the spray or mixing tank when it is half full with water and agitate until completely dispersed.
- Ensure continuous agitation throughout the mixing and spraying operation. If agitation was suspended for more than 5 minutes, first re-suspend the spray mixture before spraying.
- Mixing sequence for tank mixtures: first add any buffer followed by soluble dry formulation such as soluble granules (SG's). Then add **CANTRON® SMART 500 SC** to the water. Next add SC's (suspension concentrates). Then add EC formulations (emulsifiable concentrates). Thereafter, fill the tank with water to the required final volume. Ensure agitation throughout the mixing and application process.
- Apply **CANTRON® SMART 500 SC** the same day that the spray mixture was prepared.

USE RESTRICTIONS**General restrictions:**

- All recommendations on this label should be followed. Do not make any changes to dosage rates, product combinations or adjuvants, indicated on this label.
- Do not apply products containing the active ingredients **Flumetsulam** (e.g. **LAUREL 800 WDG/FLUMETSULAM 800 WDG**) or **Imazethapyr** (e.g. **MALLET 100 SL/IMAZETHAPYR 100 SL**) to dry beans or soybeans, if maize has been treated with **Mesotrione**-containing products e.g. **CANTRON® SMART 500 SC** during the previous season on the same field.
- **CANTRON® SMART 500 SC** may not be applied to inbred parent lines of maize hybrids or recently released cultivars, popcorn or sweet corn. First consult with the seed company or your chemical supplier.
- Disturbing the soil following either pre- and/or post-emergence applications may result in reduced weed control due to re-germination of weeds.
- Prevent drift of **CANTRON® SMART 500 SC** to adjacent crops. Smaller droplet sizes, prone to drift, must be avoided.
- Avoid overlapping of spray swaths.
- **Possible damage to Triazine sensitive crops:**
- Where soils have been treated with lime to correct the soil pH, the risk of crop damage increases in fields where Triazines were previously applied. Refer to the product labels of relevant triazine herbicides used.
- **Possible increased efficacy, phytotoxicity and residual action:**
Where soil pH levels are increased above 7, conditions for increased efficacy and reduced selectivity may take place. Also, increased soil pH may result in increased soil residual action of certain herbicides, affecting follow-up crops.

Where pH adjustments have been done, caution must be taken where **Sulphonyl urea** herbicides (e.g. **Nicosulfuron**), **Triazolopyrimidine sulfonanilide** herbicides and **Imidazolinone** herbicides (e.g. **Flumetsulam**), which are all sensitive to soil pH fluctuations, have been, or are expected to be used.

CONTACT YOUR AGRICHEMICAL REPRESENTATIVE TO DETERMINE SUITABLE CROP ROTATION AND WEED CONTROL PROGRAMMES BEFORE MAKING ANY SOIL PH ADJUSTMENTS.

Post-emergence application restrictions:

- Apply **CANTRON® SMART 500 SC** to actively growing weeds that are not under growth stress. Reduced or delayed weed control may occur if weeds are under stress conditions such as heat, droughts, flooding, prolonged cool temperatures or inadequate fertilization, since weeds may not be growing actively.
- Delay application of **CANTRON® SMART 500 SC** until the stress conditions have improved, and ensure weeds are actively growing and within the susceptible growth stages as indicated below.
- Apply **CANTRON® SMART 500 SC** on to the true leaves of the weeds as cotyledons of seedlings are not true leaves.
- Temporary bleaching injury to the crop may occur when the crop is under stress, under extreme weather conditions or prolonged overcast conditions.
- **Do not** apply mixtures of **CANTRON® SMART 500 SC** with foliar applied organophosphate insecticides as the crop may be damaged.
- Wait 4 weeks before application of **CANTRON® SMART 500 SC** if a carbamate or organophosphate insecticide was applied at time of planting as damage may occur.
- **CANTRON® SMART 500 SC** may not be applied post-emergence through any irrigation system.

Follow-on crop restrictions:

- Only plant a follow-up crop after thorough cultivation of the soil.
- **CANTRON® SMART 500 SC** is metabolized through microbial activity. Extended periods of low microbial activity might prolong the residual activity of **CANTRON® SMART 500 SC** in the soil.
- Adhere to the following waiting periods before planting of follow-on crops:

Grain sorghum:	2 months,
Potatoes:	6 months,
Soybeans, Dry beans and Groundnuts:	9 months,
Sunflowers and Cotton:	9 months,
Wheat and Barley:	1 month,
All other crops not listed above:	24 months.

APPLICATION INSTRUCTIONS

Ground application: (also refer to “**General Restrictions**” above):

- Apply with a correctly calibrated tractor-mounted boom sprayer that is in good working order.
- The use of 110° flat fan hydraulic nozzles is recommended to obtain the best coverage.
- Apply 200 to 300 litres spray mixture per hectare.
- Post-emergence application at a reduced volume of 100 litres spray volume per hectare may only be done if, **purpose designed** sleeve boom sprayers with the correct nozzle types, sizes and spacing, is used and adequate coverage is obtained. Also refer to the correct use of registered adjuvants at the correct rates.
- Avoid the production of a fine mist spray that may cause drift damage to on non-target areas.

APPLICATION RATES

1. Post-emergence application of CANTRON® SMART 500 SC plus Velocity®-Super or Velocity®-Drymax on GLYPHOSATE TOLERANT maize cultivars:

NOTES

- **Important:** This tank mixture of **CANTRON® SMART 500 SC** plus **Velocity®-Super** or **Velocity®-Drymax** may only be applied on certified maize cultivars containing **GLYPHOSATE TOLERANT** genetic material.
- This treatment can be applied as a stand-alone post-emergence application or as a follow up to a pre-emergence application of **CANTRON® 480 SC** in tank mixture with **Metolachlor 800 EC** or **Platinum Plus 915 EC/Metolachlor 915 EC** or **Leap 840 EC/Premium 840 EC**, as indicated on the registered labels.
- Use the higher dosage rate for more difficult weeds or higher weed pressure situations. Apply to young actively growing weeds.
- Refer to the **Velocity®-Super** or **Velocity®-Drymax** labels for **USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

CANTRON® SMART 500 SC 2.0 to 2.5 l / ha	PLUS	
	Velocity®-Super 2.0 % (2.0 l / 100 l) OR Velocity®-Drymax 1.0 % (1.0 kg / 100 l)	
WEEDS CONTROLLED		
THE FOLLOWING WEEDS ARE NORMALLY CONTROLLED AT THE DOSAGE RATE AS INDICATED ABOVE:		
Botanical name	Common name	
<i>Acanthospermum hispidium</i>	Upright starbur	
<i>Amaranthus hybridus</i>	Common pigweed	
<i>Bidens pilosa</i>	Common blackjack	
<i>Chenopodium album</i>	White goosefoot	
<i>Commelina benghalensis</i>	Bengal wandering Jew	
<i>Cyperus esculentus</i> *	Yellow nutsedge	
<i>Datura ferox</i>	Large thorn apple	
<i>Digitaria adscendens</i>	Lowveld Crab fingergrass	
<i>Digitaria sanguinalis</i>	Crab finger grass	
<i>Eleusine indica</i>	Goose grass	
<i>Galinsoga parviflora</i>	Gallant soldier	
<i>Ipomoea purpurea</i>	Morning glory	
<i>Portulaca oleracea</i>	Purslane	
<i>Richardia brasiliensis</i>	Tropical Richardia	
<i>Tagetes minuta</i>	Tall Khaki weed	
<i>Tribulus terrestris</i> **	Common dubbeltjie**	
<i>Xanthium strumarium</i> *	Cocklebur	

* Only at highest recommended dosage rates.

** These weeds are controlled variably.

2. **Post-emergence application of CANTRON® SMART 500 SC plus Palladium 960 EC/Pentium 960 EC or Platinum 960 EC/Metolachlor 960 EC or Premium 900 EC/Aceto chlor 900 EC plus Terbuweed 600 WDG plus Velocity®-Super or Velocity®-Drymax on GLYPHOSATE TOLERANT maize cultivars:**

NOTES

- **Important:** This tank mixture of **CANTRON® SMART 500 SC** plus **Palladium 960 EC/Pentium 960 EC** or **Platinum 960 EC/Metolachlor 960 EC** or **Premium 900 EC/Aceto chlor 900 EC** plus **Terbucide 600 WDG/Terbuweed 600 WDG** may only be applied on certified maize cultivars containing **GLYPHOSATE TOLERANT** genetic material.
- This treatment can be applied as a stand-alone post-emergence application or as a follow up to a pre-emergence application of **CANTRON® 480 SC** in tank mixture with **Metolachlor 800 EC** or **Platinum Plus 915 EC/Metolachlor 915 EC** or **Leap 840 EC/Premium 840 EC**, as indicated on the registered labels.
- Use the higher dosage rate for more difficult weeds or higher weed pressure situations. Apply to young actively growing weeds.
- Refer to the **Palladium 960 EC/Pentium 960 EC** or **Platinum 960 EC/Metolachlor 960 EC** or **Premium 900 EC/Aceto chlor 900 EC** and **Terbucide 600 WDG/Terbuweed 600 WDG** labels for **USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

CANTRON® SMART 500 SC 2.0 to 2.5 l / ha	PLUS	PLUS	PLUS
	Palladium 960 EC/Pentium 960 EC OR Platinum 960 EC/Metolachlor 960 EC OR Premium 900 EC / Aceto chlor 900 EC 0.5 l / ha	Terbuweed 600 WDG / Terbucide 600 WDG 800 g / ha	Velocity®-Super 2.0 % (2.0 l / 100 l) OR Velocity®-Drymax 1.0 % (1.0 kg / 100 l)
WEEDS CONTROLLED			
Above-mentioned plus:			
Botanical name		Common name	
<i>Acathospermum hispidum</i>		Upright starbur	
<i>Amaranthus hybridus</i>		Common pigweed	
<i>Amaranthus spinosus</i>		Thorny pigweed	
<i>Bidens pilosa</i>		Common blackjack	
<i>Chenopodium album</i>		White goosefoot	
<i>Chenopodium carinatum</i>		Green goosefoot	
<i>Commelina benghalensis</i>		Bengal wandering Jew	
<i>Cyperus esculentus*</i>		Yellow nutsedge	
<i>Datura ferox</i>		Large thorn apple	
<i>Digitaria sanguinalis (adscendens)</i>		Crab finger grass	
<i>Eleusine indica</i>		Goose grass	
<i>Galinsoga parviflora</i>		Gallant soldier	
<i>Ipomoea obscura</i>		Wild Petunia	
<i>Portulaca oleracea</i>		Purslane	
<i>Richardia brasiliensis</i>		Mexican richardia	
<i>Tagetes minuta</i>		Tall Khaki weed	
<i>Xanthium strumarium*</i>		Cocklebur	

* Only at highest recommended dosage rates.

NOTE - Higher dosage rates of **Terbucide 600 WDG/Terbuweed 600 WDG**, may be applied for control of additional broadleaf weed species and longer residual control of broadleaf weeds. Refer to the **Terbucide 600 WDG/Terbuweed 600 WDG** labels for dosage rates, and a list of additional weeds controlled by these products.

Consult the **Palladium 960 EC/Pentium 960 EC**, **Platinum 960 EC/Metolachlor 960 EC**, **Premium 900 EC/Aceto chlor 900 EC**, **Terbucide 600 WDG/Terbuweed 600 WDG** and **Velocity®-Super/Velocity®-Drymax** labels for **WARNINGS**, **PRECAUTIONS** and **DIRECTIONS FOR USE**.

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

- **PLATINUM PLUS 915 EC** (L 7844) = **METOLACHLOR 915 EC** (L 7841 / N-AR 1361) = **PLATINUM PLUS 915 EC** (L 8249),
- **LEAP 840 EC** (L 8064 / N-AR 1103) = **PREMIUM 840 EC** (L 8066) = **ARMANN SUPER 840 EC** (L 8373) (**Acetochlor**),
- **PALLADIUM 960 EC** (L 9360) = **PENTIUM 960 EC** (L 9830) = **PARTISAN 960 EC** (L 9964),
- **PLATINUM 960 EC** (L 7434) = **METOLACHLOR 960 EC** (L 7136 / W 130057 / N-AR 1362) = **PLATINUM 960 EC** (L 8129),
- **PREMIUM 900 EC** (L 7637) = **ACETOCHLOR 900 EC** (L 7633 / N-AR 1101) = **ARMANN 900 EC** (L 8626),
- **TERBUCIDE 600 WDG** (L 8799 / W 1301046) = **TERBUWEED 600 WDG** (L 8800) = **TERBUMAIS 600 WDG** (L 8798) (**Terbutylazine**),
- **VELOCITY®-SUPER** (L 9603 / W 130996) = **AMS-SUPER** (L 9758) and
- **VELOCITY®-DRYMAX** (L 9454 / N-AR 1528 / W 130995) = **AMS-GRANULE** (L 9610).

METOLACHLOR 915 EC, PREMIUM 840 EC, METOLACHLOR 800 EC, METOLACHLOR 960 EC, PREMIUM 900 EC, PENTIUM 960 EC and/en **TERBUCIDE 600 WDG** are registered products of / is geregistreerde produkte van **UNIVERSAL CROP PROTECTION (PTY) LTD.**

CANTRON®, VELOCITY®-SUPER and/en **VELOCITY®-DRYMAX** are registered trademarks of / is geregistreerde handelsmerke van **VILLA CROP PROTECTION (PTY) LTD.**

METOLACHLOR 800 EC, PLATINUM PLUS 915 EC, PLATINUM 960 EC, LEAP 840 EC, PALLADIUM 960 EC, ACETOCHLOR 900 EC, AMS-SUPER, AMS-GRANULE and/en **TERBUWEED 600 WDG**, are registered products of / is geregistreerde produkte van **VILLA CROP PROTECTION (PTY) LTD.**

MAESTRO PLUS 800 EC, PLATINUM PLUS 915 EC, PLATINUM 960 EC, ARMANN SUPER 840 EC, PARTISAN 960 EC, ARMANN 900 EC and/en **TERBUMAIS 600 WDG**, are registered products of / is geregistreerde produkte van **CROP ASURE (PTY) LTD**