

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

SHAKE THE BOTTLE WELL BEFORE USE.

Herbicide



AMETRYN 500 SC

Reg. No. L 7742 Act/Wet No. 36 of/van 1947

1:14/07/05-Jan2018

*A suspension concentrate herbicide for the control of annual broad-leaved weeds and grasses in sugarcane, bananas and pineapples as indicated.*

*'n Suspensie konsentraat onkruidodder vir die beheer van eenjarige breëblaaronkruid en grasse in suikerriet, piesangs en pynappels soos aangedui.*

ACTIVE INGREDIENT / AKTIEWE BESTANDEEL

ametryn (triazine) 500 g/l ametrien (triasien)

HRAC HERBICIDE GROUP CODE **C1** HRAC ONKRUIDDODER GROEPKODE



**villa**

Registration holder / Registrasiehouer:

Villa Crop Protection (Pty) Ltd.

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

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UN Number: 3082

Willow Set & Print 011 394-4486



HARMFUL  
SKADELIK



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

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

P.O. Box / Posbus 10413, ASTON MANOR, 1620, Tel. (011) 396 2233.

**WARNINGS****Recropping intervals:**

The following waiting periods should lapse between application of AMETRYN 500 SC and the planting of follow-up crops, to prevent damage to the next crop:	
Sugarcane	None
Bananas and Pineapples	90 days

- Harmful when swallowed.
- Irritating to eyes, skin and upper respiratory tract.
- Toxic to fish and aquatic organisms.
- Store in a cool, dry, well-ventilated place in the original container, tightly closed.
- Store 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, take the patient to a physician and make this label available to him/her.**

**Aerial application:**

Notify all inhabitants in the immediate vicinity of the lands to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate water or adjacent areas.

**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 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 the event of any uncertainty.**

**PRECAUTIONS**

- Avoid inhalation of the spray mist.
- Avoid contact with skin and eyes.
- Wear a face shield, rubber gloves and boots when handling the product and preparing the spray mixture.
- Wash with soap and water after use and after accidental skin contact.
- Wash contaminated clothing after use.
- 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 nearby water sources.
- Do not apply where roots of desirable plants can absorb the chemical.
- Do not mix and load within at least 15 metres of boreholes, streams, rivers and dams.
- Do not apply within at least 15 metres from boreholes, streams and rivers.

- Do not apply within at least 60 metres from dams.
- Ensure that no back-siphoning to boreholes or dams takes place where **AMETRYN 500 SC** is applied through the irrigation system.
- Thoroughly clean spraying equipment before using with other material 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 empty container by perforation and flattening and dispose it in a safe manner.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

### **SYMPTOMS OF HUMAN POISONING**

The product may be mildly irritating, but is unlikely to cause more than mild discomfort, which should disappear once contact ceases. Symptoms of acute exposure to high doses include nausea, vomiting, diarrhoea, muscle weakness and salivation.

### **FIRST AID TREATMENT**

- **Inhalation:** Immediately remove source of contamination or move victim to fresh air. Avoid mouth-to-mouth resuscitation. Keep person warm and at rest. Treat symptomatically and supportively as and when required. Seek medical advice immediately.
- **Skin contact:** Remove contaminated clothing, shoes and leather goods immediately. Gently wipe off excess chemical. Wash skin gently and thoroughly with non-abrasive soap and large amounts of water until no evidence of chemical remains (approximately 15 to 20 minutes). If irritation persists, seek medical advice immediately.
- **Eye contact:** Immediately flush the contaminated eyes with gently flowing lukewarm water, occasionally lifting upper and lower lids, until no evidence of chemical remains (approximately 15 to 20 minutes). Severe contamination may require medical attention.
- **Ingestion:** Have patient rinse mouth thoroughly with clean water. Do not induce vomiting. **In serious cases, seek medical advice immediately.** Treat respiratory difficulty with artificial respiration and oxygen.

### **NOTE TO PHYSICIAN**

No signs and symptoms of **Ametryn** poisoning are known or expected in humans. An antidote is neither known nor needed. Treat symptomatically when required. When large amounts have been ingested, gastric lavage or the administration of activated charcoal with water may be indicated.

### **RESISTANCE WARNING**

**AMETRYN 500 SC** is a group code C1 herbicide. Any weed population may contain individuals naturally resistant to **AMETRYN 500 SC** and other group code C1 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **AMETRYN 500 SC** or any other group code C1 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.

### **DIRECTION FOR USE: Only use as directed.**

#### **Compatibility:**

- The compatibility of **AMETRYN 500 SC** may be influenced by several factors. As factors influencing compatibility may vary, a physical compatibility test must always be performed before such tank mixture is sprayed.
- When **AMETRYN 500 SC** is used in conjunction with any other agricultural remedy, all **WARNINGS, PRECAUTIONS** and **DIRECTIONS FOR USE** mentioned on that label, must be adhered to.

#### **Mixing instructions:**

- Half fill the spray tank with water.
- Add the required quantity of **AMETRYN 500 SC** into the tank whilst stirring.
- Fill the spray tank with water to the required level while maintaining agitation, to ensure thorough mixing.
- Spray mixtures must be sprayed out immediately and not allowed to stand over e.g. overnight.
- Spray equipment must be cleaned and rinsed immediately after spraying.

#### Application:

- **AMETRYN 500 SC** must only be applied with a calibrated sprayer that is in good working condition.

#### Aerial application:

Aerial application of **AMETRYN 500 SC** may only be done by a registered aerial application operator using a correctly calibrated, registered aircraft according to the instructions of SANS Code 10118 (Aerial Application of Agricultural Pesticides). Ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met:

- Volume: A spray mixture volume of **Pre-emergence** - 30 litres per hectare and **Post-emergence** - 30 to 35 litres per hectare is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended above.
- Droplet coverage: **Pre-emergence** - 20 to 30 droplets per cm<sup>2</sup> must be recovered at the target area, and **Post-emergence** - 35 to 45 droplets per cm<sup>2</sup>.
- Droplet size: A droplet spectrum with a VMD of **Pre-emergence** - 350 to 450 micron is recommended, and **Post-emergence** - 300 to 350 micron. Limit the production of fine droplets less than 150 micron (high drift and evaporation potential) to a minimum.
- Flying height: Maintain the height of the spray boom at 3 to 4 metres above the target. Do not spray when aircraft dives, is in a climb or when banking.
- Use suitable atomising equipment that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product. The spraying system must produce a droplet spectrum with the lowest possible Relative Span.
- Position all the atomisers within the inner 60 to 75 % of the wingspan to prevent droplets from entering the wingtip vortices.
- The difference in temperature between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8°C.
- Stop spraying if the wind speed exceeds 15 km per hour.
- Stop spraying under turbulent, unstable and dry conditions during the heat of the day.
- Spraying under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions (relative humidity 80 % and above) may lead to the following:
  - a) reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage),
  - b) damage to other sensitive crops and/or non-target areas through drifting of the suspended spray cloud away from the target field.
- Ensure that the aerial spray operator knows exactly which fields to spray.

Obtain an assurance from the aerial spray operator that the above requirements will be met and that relevant data will be compiled in a logbook and kept for future reference.

#### APPLICATION RATES

##### 1. SUGARCANE

- **AMETRYN 500 SC** can be used on its own or in a tank mixture with **Acetochlor 900 EC** or **Leap 840 EC**, **MCPA 400 SL** or **2,4-D Amine 480 SL**, **Platinum 960 EC**, **METRIBUZIN 480 SC** (L 4374), **MSMA 720 SL** (L 4594) or **SKOFFEL® 200 SUPER** (L 6328 / W 130059 / N-AR 1097).

#### Pre-Emergence Application:

- For the control of annual broadleaf weeds and grasses, **AMETRYN 500 SC** at the rate of 2.0 to 3.0 litres per hectare in a tank mixture with **Platinum 960 EC** or **Acetochlor 900 EC** or **Leap 840 EC** is recommended.
- Apply the lower **AMETRYN 500 SC** (2.0 litres per hectare) dosage on light to medium clay soils. Use the higher dosage (3.0 litres per hectare) on medium to heavy clay soils. **Always consult the relevant herbicide label for the recommendation and application details.**

- If the organic material of the soil is above 1 % and the clay content also above 35 %, then apply 2.5 litres per hectare **Platinum 960 EC** in all tank mixtures.

**Table 1: AMETRYN 500 SC recommendations for pre-emergence application in sugarcane.**

<i>Dosage rate and Mixtures</i>	<i>Remarks</i>
<b>AMETRYN 500 SC PLUS Platinum 960 EC PLUS Skoffel® 200 Super</b>	Apply 1.5 to 2.5 litres <b>Platinum 960 EC</b> per hectare, in a tank mixture with 2.0 to 3.0 litres <b>AMETRYN 500 SC</b> plus 1.5 litres <b>Skoffel® 200 Super</b> . <b>Do not</b> add any <b>wetter</b> to this tank mixture.
<b>AMETRYN 500 SC PLUS Platinum 960 EC</b>	Apply 1.5 to 2.5 <b>Platinum 960 EC</b> per hectare, in a tank mixture with 6.0 litres <b>AMETRYN 500 SC</b> . Add a non-ionic wetter at 0.2 % of spray volume.
<b>AMETRYN 500 SC PLUS Platinum 960 EC PLUS MCPA 400 SL OR 2,4-D Amine 480 SL</b>	Apply 1.5 to 2.5 litres <b>Platinum 960 EC</b> per hectare in a tank mixture with 4.0 to 5.0 litres <b>AMETRYN 500 SC</b> plus 3.5 litres <b>MCPA 400 SL</b> or 3.0 litres <b>2,4-D Amine 480 SL</b> . Add a non-ionic wetter at 0.2 % of spray volume.

**Post-emergence application:**

- **AMETRYN 500 SC** may be applied at any development stage of the cane, but weeds must be actively growing and not larger than indicated below.
- The residual action of **AMETRYN 500 SC** is approximately 6 to 8 weeks. **AMETRYN 500 SC** plus **Metribuzin 480 SC** is recommended where longer residual action is required.

**Pre-emergence application of AMETRYN 500SC Plus Acetochlor 900 EC or Leap 840 EC:****Table 2: AMETRYN 500 SC Plus Acetochlor 900 EC or Leap 840 EC applied pre-emergence.**

<i>AMETRYN 500 SC ℓ / ha</i>	<i>PLUS Acetochlor 900 EC ℓ / ha</i>		<i>OR Leap 840 EC ℓ / ha</i>	
	< 30 % clay	> 30 % clay	< 30 % clay	> 30 % clay
2.0 to 3.0	1.6 to 2.3	2.1 to 2.8	1.8 to 2.6	2.3 to 3.0

- Apply the higher **Acetochlor 900 EC** dosage rate on soils with more than 30 % clay, or where a longer residual action, and/or better control of Yellow nutsedge is required. Use the lower dosage on lighter soils.
- Apply the lower **AMETRYN 500 SC** dosage on light to medium soils. Use the higher dosage on medium to heavy soils.

**Post-emergence application of AMETRYN 500 SC Plus Acetochlor 900 EC or Leap 840 EC:****Table 3: AMETRYN 500 SC Plus Acetochlor 900 EC or Leap 840 EC applied post-emergence..**

<i>AMETRYN 500 SC ℓ / ha</i>		<i>PLUS Acetochlor 900 EC ℓ / ha</i>		<i>OR Leap 840 EC ℓ / ha</i>	
6.0 <b>PLUS</b> suitable wetter Refer to <b>Notes 1 and 7</b> , below.	3.0 to 5.0 <b>PLUS</b> 1.5 ℓ / ha <b>Skoffel® 200 Super</b> Refer to <b>Notes 2, 3 and 7</b> below.	< 30 % clay	> 30 % clay	< 30 % clay	> 30 % clay
			1.6 to 2.3	2.1 to 2.8	1.8 to 2.6

**NOTES**

1. Direct spray between the rows from the 5-leaf stage of the sugarcane.
2. Only apply up to the 2- to 3-leaf stage of sugarcane.
3. Apply the lower **AMETRYN 500 SC** dosage on light to medium soils. Use the higher dosage on medium to heavy soils.
4. Apply before emergence of the weeds.
5. Apply before the tillering stage of annual grasses.

6. Use the higher dosage rates on heavy soils.

**Table 4: AMETRYN 500 SC** recommendations for post-emergence application in sugarcane regardless of soil type.

Type of weed	AMETRYN 500 SC (ℓ / ha)	Remarks
<b>Mainly broadleaf and annual grasses</b>	8.0	Apply to actively growing weeds not longer than 7.5 cm and grasses not longer than 4 cm.
<b>Mainly nutsedge</b> ( <i>C. esculentus</i> )	3.0 ℓ <b>PLUS</b> 3.5 ℓ <b>MCPA 400 SL</b> <b>OR</b> 2.0 ℓ <b>2,4-D Amine 480 SL</b> <b>OR</b> 3.0 ℓ <b>PLUS</b> 2.0 ℓ <b>Metribuzin 480 SC</b>	Add a non-ionic wetter at a rate of 0.2 % of spray volume. Apply the spray mixture when <i>C. esculentus</i> is in the early flowering stage. Only fully emerged weeds at the time of application, will be controlled. Good control of <i>C. esculentus</i> can be obtained under favourable climatic conditions. Broadleaf weeds and grasses, not longer than 4 cm will also be controlled by these mixtures.
<b>Broadleaf weeds</b> (less than 10 cm high)	4.0 to 5.0 ℓ <b>PLUS</b> 3.5 ℓ <b>MCPA 400 SL</b> <b>OR</b> 3.0 to 4.0 ℓ <b>PLUS</b> 3.0 ℓ <b>Skoffel® 200 Super</b>	Add a non-ionic wetter at a rate of 0.2 % of spray volume. Use the higher <b>AMETRYN 500 SC</b> dosage for fields with heavy grass pressure for both spray mixtures.
<b><i>R. exaltata</i></b> (30 to 40 cm high)	3.0 to 4.0 ℓ <b>PLUS</b> 3.0 ℓ <b>MSMA 720 SL</b>	<i>R. exaltata</i> plants that germinate after application will not be controlled.
<b><i>P. maximum</i></b> (4 to 6 leaves)	4.0 ℓ <b>PLUS</b> 4.0 ℓ <b>MSMA 720 SL</b>	Thorough wetting is necessary for effective control. <i>P. maximum</i> plants that are overshadowed by other weeds will not be controlled effectively.

#### NOTE

- Sugarcane can be sprayed over the top, provided it has not developed beyond the 5-leaf stage. After this stage, the spray must be directed below the cane leaves in order to avoid contact with the cane leaves. It is recommended that an application of **AMETRYN 500 SC** plus **MCPA 400 SL** or **2,4-D Amine 480 SL** be directed in such a way that the sugarcane leaves are not wetted.
- A non-ionic surfactant should be added to the final spray mixture, to enhance the efficacy of the treatment.
- It is not recommended that spray mixtures be allowed to stand over for any time.
- Agitate spray mixture thoroughly before spraying.

## 2. BANANAS

- Application of **AMETRYN 500 SC** on bananas can be performed at any developmental stage.
- Do not spray the product directly onto the banana plant.
- Weeds in an active stage of growth should be treated with **AMETRYN 500 SC** in Spring or late Summer to Autumn.

**Table 5: AMETRYN 500 SC** recommendations for use in bananas.

Soil type	AMETRYN 500 SC (ℓ / ha)
All types	6.4

### 3. PINEAPPLES

- **AMETRYN 500 SC** is recommended for application in mixed weed infestations where grass weeds are a particular problem.

**Table 6:** **AMETRYN 500 SC** as a post emergence application in pineapples.

Percentage clay in soil	AMETRYN 500 SC (l / ha)
< 20 %	8.0
21 to 35 %	11.2
> 35%	Not recommended

**Table 7:** Weed species normally controlled by **AMETRYN 500 SC** or in combination with **MCPA 400 SL** or **2,4-D Amine 480 SL**.

Broadleaf weeds controlled by AMETRYN 500 SC:	
<i>Amaranthus</i> spp.	Pigweed
<i>Bidens bipinnata</i>	Spanish black jack
<i>Bidens pilosa</i>	Common black jack
<i>Chenopodium album</i>	White goosefoot
<i>Cleome monophylla</i>	Spindlepod
<i>Commelina benghalensis</i>	Benghal wandering jew
<i>Conyza canadensis</i>	Horseweed fleabane
<i>Datura</i> spp.	Thornapple
<i>Euphorbia</i> spp.	Milkweed
<i>Galinsoga parviflora</i>	Gallant soldier
<i>Nicandra physaloides</i>	Apple-of-Peru
<i>Portulaca oleraceae</i>	Common purslane
<i>Richardia brasiliensis</i>	Tropical richardia
<i>Sida cordifolia</i>	Flannel weed
<i>Solanum nigrum</i>	Black nightshade
<i>Sonchus oleraceus</i>	Common sowthistle
Grass weeds controlled by AMETRYN 500 SC:	
<i>Panicum schinzii</i>	Sweet buffalo grass
<i>Panicum maximum</i>	Common buffalo grass
<i>Panicum subalbidum</i>	Elbow grass
<i>Echinochloa crusgalli</i>	Barnyard grass
<i>Eleusine indica</i>	Goose grass
<i>Digitaria sanguinalis</i>	Crab finger-grass
<i>Setaria verticillata</i>	Burr bristle grass
<i>Setaria pallidifusca</i>	Red bristle grass
<i>Urochloa panicoides</i>	Herringbone grass

#### NOTE

- Broadleaf weeds should not be longer than 7.5 cm at the time of application.
- Grasses must not be longer than 4 cm at the time of application.
- *Cyperus esculentus* (Yellow nutsedge) and *Cyperus rotundus* (Purple nutsedge) will be suppressed by an application of **AMETRYN 500 SC**.
- If nutsedge forms an important part of the weed spectrum in sugarcane, a combination of **AMETRYN 500 SC** and **MCPA 400 SL** or **2,4-D Amine 480 SL** or **Metribuzin 480 SC** is recommended (refer sugarcane).

Refer to the **Platinum 960 EC**, **Acetochlor 900 EC**, **Leap 840 EC**, **MSMA 720 SL**, **Metribuzin 480 SC**, **Skoffel® 200 Super** and **MCPA 400 SL** labels for **WARNINGS**, **PRECAUTIONS**, **USE RESTRICTIONS** and **DIRECTIONS FOR USE** and list of weed species controlled.

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),



- **PLATINUM 960 EC** (L 7434 / N-AR 1108) = **METOLACHLOR 960 EC** (L 7136 / W 130057) = **PLATINUM 960 EC** (L 8129),
- **ACETOCHLOR 900 EC** (L 7633 / N-AR 1101) = **PREMIUM 900 EC** (L 7637) = **ARMANN 900 EC** (L 8626),
- **LEAP 840 EC** (L 8064 / N-AR 1103) = **PREMIUM 840 EC** (L 8066) = **ARMANN SUPER 840 EC** (L 8373) (**Acetochlor**),
- **MCPA 400 SL** (L 5793 / N-AR 1092) = **MCPA 400 SL** (L 5795 / W 130452) en
- **SKOFFEL® 200 SUPER** (L 6328 / W 130059 / N-AR 1097) = **PARAQUAT SUPER** (L 8155),

**PLATINUM 960 EC, AMINO 480 SL, LEAP 840 EC, METRIBUZIN 480 SC** and/en **MCPA 400 SL**  
are registered products of / is geregistreerde produkte van  
**VILLA CROP PROTECTION (PTY) LTD.**

**2,4-D AMINE 480 SL, MCPA 400 SL, MSMA 720 SL, METOLACHLOR 960 EC, PREMIUM 900 EC**  
**PREMIUM 840 EC** and/en **SKOFFEL® 200 SUPER** are registered products of / is geregistreerde produkte  
van  
**UNIVERSAL CROP PROTECTION (PTY) LTD.**

**2,4-D AMINE SL, ARMANN 900 EC, ARMANN SUPER 840 EC, PARAQUAT SUPER** and/en **PLATINUM**  
**960 EC** are registered products of / is geregistreerde produkte van  
**CROPASURE (PTY) LTD.**