

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

SHAKE THE BOTTLE WELL BEFORE USE.

Herbicide



AGRIZINE 500 SC

Reg. No. L 5387 Act/Wet No. 36 of/van 1947
W 130121

5: 21/2/2012-Jan2017

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

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

ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL

atrazine (triazine) 488 g/l atrasien (triasien)
other triazines 12 g/l ander triasiene

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



villa

Registration holder / Registrasiehouer:
Universal Crop Protection (Pty) Ltd.
Co. Reg. No. / Mpy. Reg. Nr. 1983/008184/07
PO Box / Posbus 801, Kempton Park, 1620
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UN Number: 3082

Willow Set & Print 011 394-4486



HARMFUL
SKADELIK



GERUUKSAANWYSYNGS INGESLUIT

VERWYS NA BESONDERHEDE
GEDRUK OP HOUER/SAK

Date formulated:

Formuleringsdatum:

DIRECTIONS FOR USE ENCLOSED

REFER TO DETAILS PRINTED
ON CONTAINER/BAG

Batch number:

Lotnummer:

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UNIVERSAL CROP PROTECTION (PTY) LTD.

Co. Reg. No. 1983/008184/07 Mpy. Reg. Nr.

P.O. Box / Posbus 801

KEMPTON PARK, 1620 Tel. (011) 396 2233

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

- Poisonous when swallowed.
- Store in a cool, dry place under lock and key, away from food, feeds, seed, fertilizers and other agricultural remedies.
- Keep out of reach of children, animals and uninformed persons.
- **In case of poisoning call a doctor and make this label available to him/her.**
- Re-entry: Do not enter treated area within 1 day after treatment unless wearing protective clothing.

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

- Do not inhale the spray mist.
- Wash with soap and water after use.
- Do not eat, drink or smoke while mixing, applying or before washing hands and face or change of clothing.
- Prevent drift onto other crops, grazing, rivers, dams or areas not under treatment.
- Do not apply where roots of desirable plants can absorb the chemical.
- Do not mix or 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 **Atrazine** is applied through the irrigation system.
- Clean the applicator 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 the empty container by perforation and flattening.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

SYMPTOMS OF HUMAN POISONING

Eye contact: May cause pain, redness or tears.

Skin contact: Minimally toxic and practically non-irritating.

Ingestion: Moderately toxic. No significant effects are expected to develop if only small amounts are swallowed.

Inhalation: Minimally toxic if inhaled.

FIRST AID TREATMENT

- Inhalation: Remove source of contamination or move the victim to fresh air. Obtain medical advice immediately.
- 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.
- Eye contact: Immediately flush the contaminated eyes with gently flowing lukewarm water for 20 minutes, holding the eyelid(s) open. Severe contamination may require medical attention.
- Ingestion: Have victim rinse mouth thoroughly with water. Do not induce vomiting. **In serious cases, seek medical advice immediately.**

NOTE TO PHYSICIAN

No signs and symptoms of **Triazine** 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

AGRIZINE 500 SC is a group code C1 herbicide. Any weed population may contain individuals naturally resistant to **AGRIZINE 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 **AGRIZINE 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.

USE RESTRICTIONS

To avoid damage to follow-up crops, the following waiting periods should be taken into consideration:

<i>Crop</i>	<i>Waiting Period</i>
a) Maize and Sugarcane	None
b) Grain sorghum and Pineapples	12 months
c) Sunflowers, Small grain, Feed sorghum, Dry beans, Groundnuts, Soybeans and Potatoes	18 months
d) All other crops (a test planting is however recommended)	24 months

- Where the rate of **AGRIZINE 500 SC** does not exceed 2 litres per hectare, the waiting periods mentioned under **(b)** and **(c)** can be reduced to 9 months, except in the sandy soils of the Western Transvaal and North-western Free State, which contain 0 to 10 % clay.

- **NOTE**

The above mentioned waiting periods will only be valid if the correct quantity of **AGRIZINE 500 SC** has been applied according to the soil type and an average or above average rainfall has been experienced, during and after the season in which the **AGRIZINE 500 SC** has been applied.

- When **AGRIZINE 500 SC** is applied to soils, which expand on wetting and crack or crumble on drying out such as turf soils, **AGRIZINE 500 SC** may remain active in the soil much longer than the above-mentioned waiting periods. Thus it should not be applied to such soils if it is contemplated to plant **Atrazine** sensitive crops in the foreseeable future. On these soils weeds may also not be controlled satisfactorily by a pre-emergence application.
- **Do not** apply **AGRIZINE 500 SC** to inbred parent plants of maize- or grain sorghum hybrids or experimental or newly released maize and grain sorghum cultivars without first referring to the manufacturer or seed supplier.

- Springbok Flats area: **AGRIZINE 500 SC** is **not normally recommended**, if, however, you want to use **AGRIZINE 500 SC**, first consult the representative of the supplier.

DIRECTIONS FOR USE: Use only as directed.

Mixing instructions:

- Shake well just before use.
- Replace the lid after use.
- Half fill the spray tank with water.
- Add the required quantity of **AGRIZINE 500 SC** through a 50-mesh sieve into the tank, whilst stirring.
- Top up with water to the final volume required.
- Keep the chemical in continuous suspension by means of agitation. After each day's spraying thoroughly flush tank with water.

Application:

- Accurately calibrate spray equipment prior to application. Use fan type nozzles, to ensure a uniform coverage.
- Apply onto a well-prepared seedbed free of clods and with an even surface. It is preferable that rain should follow within 7 to 10 days after application in order to leach the **AGRIZINE 500 SC** into the top layer of the soil, where it can be absorbed by the roots of germinating weeds.
- If after application, dry weather conditions should prevail for a period of 7 to 10 days, weeds may germinate and develop. If this happens, a very shallow cultivation with a millipede should follow to control these weeds and to incorporate the herbicide into the top layer of the soil.
- Where application is performed post-emergence to the crops and weeds, broad-leaved weeds should not be beyond the seedling stage (2-leaf stage) and grasses not germinated. Cultivate first to eliminate weeds and apply on clean soil. Same rates as for pre-emergence. Use 200 to 400 litres water per hectare for overall application. Proportionately lesser volumes of water to be used in the case of band treatment.

Aerial application

Aerial application of **AGRIZINE 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: The following spray mixture volumes is recommended: **Pre-emergence** - 30 litres per hectare, **Post-emergence** - 30 to 35 litres per hectare. 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: The following number of droplets must be recovered at the target area: **Pre-emergence** - 20 to 30, **Post-emergence** - 35 to 45.
- Droplet size: The following droplet spectra are recommended: **Pre-emergence**- VMD of 350 to 400 micron, **Post-emergence** - VMD of 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:
 - reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage),
 - 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

Crop / Soil Type	Dosage rate / ha	Remarks
Maize		
Pre-emergence and early post-emergence:		
0 to 10 % clay	2.5 ℓ	These application rates are for overall application. Proportional amounts should be applied in the case of band treatment. Soils with more than 50 % clay (post-emergence applications) or soils with more than 3 % organic matter may require higher dosage rates.
11 to 20 % clay	3.25 ℓ	
21 to 30 % clay	4.0 ℓ	
31 to 40 % clay	4.75 ℓ	
41 to 50 % clay	5.0 ℓ	
> 50 % clay	-	
Grain sorghum		
0 to 25 % clay	-	Not recommended.
26 to 30 % clay	4.0 ℓ	Post-emergence only when the sorghum has at least 5 leaves at the time of application.
31 to 35 % clay	4.75 ℓ	
36 to 40 % clay	4.75 ℓ	Pre- and post-emergence.
41 to 55 % clay	5.0 ℓ	Pre- and post-emergence.
NOTE		
Grasses already emerged at time of application will not be controlled. Do not apply AGRIZINE 500 SC to experimental or newly released cultivars of Sorghum, without first referring to the distributor. Do not apply to areas likely to become waterlogged. Do not apply to soils with high leaching potential and do not irrigate after application. Sorghum may be damaged, if cold and/or wet conditions appear, after an AGRIZINE 500 SC application, irrespective of soil type. Do not exceed the recommended dosage rates.		
Maize and Grain sorghum		
Post-emergence application as a tank mix with 2,4-D Amine 480 SL:		
This tank mixture is recommended for situations when broad-leaved weed control becomes desirable after these crops have emerged, except in cases where a full dosage of AGRIZINE 500 SC has already been applied. In this case a direct spray of 2,4-D Amine 480 SL as described on the 2,4-D Amine 480 SL product label, is recommended.		
Maize All soils	2.5 ℓ PLUS 0.75 ℓ 2,4-D Amine 480 SL	Spray onto actively growing broad-leaved weeds when they are not taller than 100 mm. If the crop is already higher than 400 mm, directed spraying is recommended in order to achieve better wetting of the weeds. Do not apply under wet conditions, since the crop may then be adversely affected.
Grain sorghum Above 16 % clay		
Maize and Grain sorghum		
IMPORTANT		
Ensure that sufficient fertilizer is band placed near the seed at planting to promote vigorous seedling growth. Damage may result if AGRIZINE 500 SC is applied to inbred parent plants, especially to the male or pollen parent, of sorghum and maize cultivars.		
Sugarcane		
0 to 35 % clay	2.5 ℓ	Apply as a pre-emergence overall spray. For best results apply immediately before irrigation or before rain is expected.
> 35 % clay	-	Not recommended.
Pineapples		
0 to 20 % clay	3.7 ℓ PLUS 3.7 ℓ Ametryn 500 SC	Early post-emergence treatment (early seedling stage) is recommended in situations where a mixed population of grasses and broad-leaved weeds occur and where late germinating weeds are a problem.
21 to 35 % clay	5.2 ℓ PLUS 5.2 ℓ Ametryn 500 SC	
> 35 % clay	-	Not recommended.

SOME WEED SPECIES NORMALLY CONTROLLED

Broad-leaved weeds:

<i>Acanthospermum australe</i>	Prostrate starbur
<i>Acanthospermum glabratum</i>	Five-seeded prostrate starbur
<i>Acanthospermum hispidum</i>	Upright starbur
<i>Amaranthus deflexus</i>	Pigweed
<i>Amaranthus hybridus</i>	Cape pigweed
<i>Amaranthus spinosus</i>	Thorny pigweed
<i>Amaranthus thunbergii</i>	Red pigweed
<i>Bidens bipinnata</i>	Spanish blackjack
<i>Bidens formosa</i>	Cosmos
<i>Bidens pilosa</i>	Common blackjack
<i>Chenopodium album</i>	White goosefoot
<i>Chenopodium carinatum</i>	Green goosefoot
<i>Cleome monophylla</i>	Single-leaved Cleome
<i>Cleome rubella</i>	Cleome (Pretty lady)
<i>Commelina benghalensis</i>	Wandering Jew
<i>Crotalaria sphaerocarpa</i>	Wild lucerne
<i>Datura ferox</i>	Large thorn apple
<i>Datura stramonium</i>	Thorn apple
<i>Galinsoga parviflora</i>	Small-flowered quick weed
<i>Gisekia pharnaceoides</i>	Gisekia
<i>Hibiscus trionum</i>	Bladder Hibiscus
<i>Hibiscus cannabinus</i>	Stockrose (Kenaf)
<i>Nicandra physaloides</i>	Apple of Peru
<i>Physalis angulata</i>	Wild Physalis
<i>Richardia brasiliensis</i>	Mexican Richardia
<i>Schkuhria pinnata</i>	Dwarf marigold
<i>Tagetes minuta</i>	Tall khaki weed (Limited late season control)
<i>Vigna vexilata</i>	Wild cowpea

Grass species:

<i>Eleusine indica</i>	Goose grass
<i>Setaria pallide-fusca</i>	Garden bristle grass

NOTE

If dry conditions prevail for a period of 7 to 14 days, after a pre-emergence application, the following weed species **may not** be adequately controlled, especially on heavy soils:

Bidens formosa, *Commelina benghalensis*, *Datura* spp. and *Eleusine indica*.

Under abnormal wet conditions, late season control may not be adequate.