

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Herbicide



TERBUCIDE PLUS 900 WDG

Reg. No. L 9888 Act/Wet No. 36 of/van 1947
W130866

1: 26/8/2015–Jan2018

A dispersible granule herbicide for selective control of most annual broadleaf weeds as well as Goose grass in crops as indicated.

'n Dispergeerbare korrel onkruidodder vir selektiewe beheer van die meeste eenjarige breëblaaronkruidе asook Jongosgras in gewasse soos aangedui.

ACTIVE INGREDIENTS / AKTIEWE BESTANDELE

atrazine (triazine) **450 g/kg** atrasiën (triasien)
terbuthylazine (triazine) **450 g/kg** terbutielasiën (triasien)

HRAC HERBICIDE GROUP CODE **C1** HRAC ONKRUIDDODER GROEPPKODE



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
Tel: 011 396 2233
Website / Webblad: www.villacrop.co.za

UN Number: 3077

Willow Set & Print 011 394-4486



HARMFUL
SKADELIK



GEBRUIKSAANWYSYNGS 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:

DIRECTIONS FOR USE ENCLOSED

TERBUCIDE PLUS 900 WDG

Reg. No. L 9888 / W130866 Act/Wet No. 36 of/van 1947

HRAC HERBICIDE GROUP CODE / HRAC ONKRUIDDODER GROEPKODE: C1

ACTIVE INGREDIENTS / AKTIEWE BESTANDELE:

atrazine (triazine) / atrasiën (triasien)450 g/kg
 terbuthylazine (triazine) / terbutielasiën (triasien) 450 g/kg

Registration holder / Registrasiehouer:

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****Recropping intervals:**

The following waiting periods should lapse between application of TERBUCIDE PLUS 900 WDG and the planting of follow-up crops, to prevent damage to the next crop:	
a) Maize and Sugarcane	None
b) Grain Sorghum	12 months
c) Sunflowers, Groundnuts, Soybeans, Potatoes, Dry Beans, Forage Sorghum and Small Grain	18 months
d) All Other Crops (a testing planting is recommended)	24 months

Where the rate of **TERBUCIDE PLUS 900 WDG** applied does not exceed 1.1 kg per hectare the withholding periods mentioned under **(b)** and **(c)** above, could be reduced to 9 months, **except** on the sandy soils of the Northwest Province and North Western Free State, which contain 0 to 10 % clay.

IMPORTANT

The above-mentioned withholding periods are valid only if the correct dosage rate of **TERBUCIDE PLUS 900 WDG** according to soil type was applied and normal or above average rainfall occurred, after **TERBUCIDE PLUS 900 WDG** application.

- Handle with care.
- Harmful when swallowed.
- Mild irritant to eyes and skin.
- Store under lock and key in a cool, dry, well-ventilated place, away from food, feeds, seed, fertilizers and other agricultural remedies.
- Keep out of reach of children, uninformed persons and animals.
- Product contains **Atrazine**, which has a high potential for groundwater contamination.
- Re-entry: Do not enter treated area within 1 day after treatment unless wearing protective clothing.
- **In case of poisoning call a physician and make this label available to him/her.**

Aerial application:

Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings. Do not spray over or allow the 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. 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, the occurrence of resistance of 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 the event of any uncertainty.

PRECAUTIONS

- Avoid inhalation of the dust or spray mist.
- Avoid contact with skin and eyes.
- Wear protective rubber gloves, rubber boots and a facemask when handling the concentrate and preparing the spray mixture.
- Wash with soap and water after use and accidental skin contact.
- Wash contaminated clothing after use.
- Do not eat, drink or smoke while mixing and applying or before washing hands and face or change of clothing.
- Prevent drift onto other crops, grazing, rivers, dams and areas not under treatment or to nearby water sources.
- **Cleaning of application equipment:** Special attention and care must be taken with cleaning of all equipment used in the mixing and application of **TERBUCIDE PLUS 900 WDG**, before using it for applications in other crops.
- **Product and container disposal:**
 - Dispose of surplus product in an incinerator or on a landfill site approved for pesticides.
 - Do not bury in, or spray onto, any area under agricultural use.
 - Dispose of containers/bags/sachets made of plastic, cardboard or paper on a landfill site approved for pesticides or burn in a safe place where there is no risk of contamination by smoke and fumes.
- Prevent contamination of food, feeds, drinking water and eating utensils.
- Destroy the container by perforation and flattening and dispose of it in a safe way.
- **Do not** re-use the empty container for any other purpose.

SYMPTOMS OF HUMAN POISONING

Acute toxicity to this herbicide is expected to be low and no adverse effects from exposure have been reported. It can be absorbed orally, dermally and by inhalation. Symptoms of poisoning include abdominal pain, diarrhea and vomiting, eye irritation, irritation of mucous membranes and skin irritations.

FIRST AID TREATMENT

- **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. If irritation persists, obtain medical assistance.
- **Eye contact:** Immediately flush the contaminated eyes with gently flowing lukewarm water for 20 minutes, holding the eyelid(s) open until no evidence of chemical remains.
- **Ingestion:** Have the patient rinse mouth thoroughly with water. Do not induce vomiting. Obtain medical advice immediately.
- **Inhalation:** Remove source of contamination or move the patient to fresh air. Keep the patient under observation and obtain medical attention if irritation persists.

NOTE TO PHYSICIAN

No signs and symptoms of **Triazine** poisoning are known or expected in humans. No specific antidote is available. Treat symptomatically and supportively when required. When large amounts have been ingested, consider gastric lavage or administer activated charcoal.

RESISTANCE WARNING

TERBUCIDE PLUS 900 WDG is a group code C1 herbicide. Any weed population may contain individuals naturally resistant to **TERBUCIDE PLUS 900 WDG** 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 **TERBUCIDE PLUS 900 WDG** or any other group code C1 herbicide.

To delay herbicide resistance:

- avoid exclusive repeated use of herbicide 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

- When **TERBUCIDE PLUS 900 WDG** is applied to soils, which expand on wetting and crack or crumble on drying out, such as turf soils, the **TERBUCIDE PLUS 900 WDG** may remain active in the soil for much longer than the above-mentioned waiting periods. Thus, **TERBUCIDE PLUS 900 WDG** should not be

used on such soils if sensitive crops might be planted in the foreseeable future. On such soils **TERBUCIDE PLUS 900 WDG** may also give poor control of the weeds, when applied pre-emergence.

- Do not apply **TERBUCIDE PLUS 900 WDG** to inbred parent plants of maize and grain sorghum hybrids or experimental or newly released maize and grain sorghum cultivars without first referring to the distributor or seed supplier.
- Under cold and/or very wet conditions **TERBUCIDE PLUS 900 WDG** may damage grain sorghum.
- Ensure that sufficient fertilizer is band-placed near the seed at planting, to promote vigorous seedling growth.

DIRECTIONS FOR USE: Use only as directed.

Compatibility:

TERBUCIDE PLUS 900 WDG is compatible with **2,4-D Amine 480 SL, Metolachlor 800 EC, Metolachlor 915 EC/Platinum Plus 915 EC** and **Villa 51** as recommended on this label.

- The product may flocculate when tank mixed with **Paraquat**.
- The compatibility of **TERBUCIDE PLUS 900 WDG** 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 **TERBUCIDE PLUS 900 WDG** is used in conjunction with any other agricultural remedy, adhere to all **WARNINGS, PRECAUTIONS** and **DIRECTIONS FOR USE** mentioned on that label.

Mixing instructions:

- Half fill the spray tank with clean water.
- Pre-mix the required amount of **TERBUCIDE PLUS 900 WDG** separately and then add through a 50-mesh sieve to the tank, while agitating.
- Fill the spray tank with water to the required level.
- When **TERBUCIDE PLUS 900 WDG** is tank mixed with other pesticides, the **TERBUCIDE PLUS 900 WDG** should be mixed first using a tank half filled with water and agitated well, after which the spray tank should be filled almost to capacity with water, followed by the other products.
- Maintain agitation during mixing and application.
- Prepared spray mixtures must not be left in the spray tank for any length of time, e.g. overnight.

Application:

TERBUCIDE PLUS 900 WDG must be applied before or shortly after weeds emerge. The soil should preferably have a smooth surface, free of large clods.

If dry conditions prevail for a period of 7 to 14 days after application, weeds may emerge and develop. In such cases it is recommended that a light cultivation be carried out with a rotary cultivator to destroy these weeds and to mix the herbicide into the top 10 to 20 mm of soil.

Ground application: Flat fan type spray nozzles:

TERBUCIDE PLUS 900 WDG can be applied with any medium or high volume sprayer, with efficient agitation and which is capable of adequate coverage and even distribution. Best results are obtained using flat fan-type spray nozzles and applying a minimum spray volume of 200 litres per hectare spray mixture.

Aerial application:

Aerial application of **TERBUCIDE PLUS 900 WDG** may only be performed 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 30 litres per hectare 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 per cm² 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:
 - 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

MAIZE

1. TERBUCIDE PLUS 900 WDG as pre-emergence and early post-emergence.

Table 1: Application rates of TERBUCIDE PLUS 900 WDG.

Soil type	% Clay	Overall Application
Light sand / Sand	0 to 10 %	1.3 kg / ha
Loamy sand / Sandy loam	11 to 20 %	1.8 kg / ha
Sandy clay loam	21 to 30 %	2.2 kg / ha
Sandy clay loam / Sandy clay	31 to 40 %	2.7 kg / ha
Sandy clay, and soils high in Organic matter	41 to 50 %	2.7 kg / ha

TERBUCIDE PLUS 900 WDG can only be applied post-emergence if broadleaf weeds have not developed beyond the 4-leaf stage and grasses have not yet emerged. Where grasses have already emerged and broadleaf weeds have developed beyond the 4-leaf stage, these weeds must first be destroyed by cultivation and **TERBUCIDE PLUS 900 WDG** then applied onto clean soil. When **TERBUCIDE PLUS 900 WDG** is applied post-emergence to the weeds, a suitable surfactant such as **Villa 51** should be added to the spray mixture.

Crop rotation with Triazine sensitive crops:

In the Northwest Province and North Western Free State on 11 to 20 % clay soils where the carry-over effect of **Triazines** to groundnuts or other sensitive crops needs to be avoided, a tank mixture of 1.1 kg per hectare **TERBUCIDE PLUS 900 WDG** plus 0.7 litre per hectare **Metolachlor 915 EC/Platinum Plus 915 EC** or 0.8 litre per hectare **Metolachlor 800 EC** is recommended. On soils with high lime content these rates might however still damage follow-up crops.

Table 2: WEEDS CONTROLLED.

THE FOLLOWING GRASS OR BROALEAF WEED SPECIES ARE NORMALLY CONTROLLED BY TERBUCIDE PLUS 900 WDG:	
Broadleaf weeds:	
<i>Acanthospermum australe</i>	Eight-seeded prostrate starbur
<i>Acanthospermum glabratum</i>	Five-seeded prostrate starbur
<i>Acanthospermum hispidum</i>	Upright starbur
<i>Amaranthus deflexus</i>	Perennial pigweed
<i>Amaranthus hybridus*</i>	Common pigweed
<i>Amaranthus spinosus</i>	Thorny pigweed
<i>Amaranthus thunbergii</i>	Red pigweed
<i>Bidens bipinnata</i>	Spanish blackjack
<i>Bidens pilosa</i>	Blackjack
<i>Bidens formosa</i>	Cosmos
<i>Chenopodium album</i>	White goosefoot
<i>Chenopodium carinatum</i>	Green goosefoot
<i>Cleome monophylla</i>	Spindlepod
<i>Cleome rubella</i>	Pretty lady
<i>Commelina benghalensis</i>	Bengal wandering Jew
<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria
<i>Datura ferox</i>	Large thorn apple
<i>Datura stramonium</i>	Thorn apple
<i>Eleusine indica</i>	Goose grass
<i>Galinsoga parviflora</i>	Gallant soldier
<i>Gisekia pharnaceoides</i>	Gisekia
<i>Hibiscus cannabinus</i>	Kenaf
<i>Hibiscus trionum</i>	Bladderweed
<i>Nicandra physaloides</i>	Apple of Peru
<i>Physalis angulata</i>	Wild gooseberry
<i>Portulaca oleracea</i>	Purslane
<i>Richardia brasiliensis</i>	Tropical Richardia
<i>Schkuhria pinnata</i>	Dwarf marigold
<i>Tagetes minuta</i>	Khaki weed
<i>Vigna vexillata</i>	Wild cow-pea

* Resistant populations may exist that will not be controlled adequately.

If dry conditions prevail for a period of 7 to 14 days after pre-emergence application the following weed species may not be adequately controlled, especially on heavy soils:	
<i>Bidens formosa</i>	Cosmos
<i>Commelina benghalensis</i>	Bengal wandering Jew
<i>Datura</i> spp.	Thorn apple
<i>Eleusine indica</i>	Goose grass
Under abnormal wet conditions late-season weed control may be inadequate.	

Consult the **Metolachlor 800 EC**, **2,4-D Amine 480 SL**, **Metolachlor 915 EC/Platinum Plus 915 EC**, **Metolachlor 960 EC/Platinum 960 EC** and **Villa 51**, labels for **WARNINGS**, **PRECAUTIONS** and **DIRECTIONS FOR USE**.

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

- **METOLACHLOR 800 EC** (L 7433) = **METOLACHLOR 800 EC** (L 7137) = **MAESTRO PLUS 800 EC** (L 8090),
- **METOLACHLOR 915 EC** (L 7841 / N-AR 1361) = **PLATINUM PLUS 915 EC** (L 7844) = **PLATINUM PLUS 915 EC** (L 8249),
- **METOLACHLOR 960 EC** (L 7136 / W 130057 / N-AR 1362) = **PLATINUM 960 EC** (L 7434) = **PLATINUM 960 EC** (L 8129),
- **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) and

- **VILLA 51** (L 8050 / W 130454 / N-AR 1090) = **WEN 51** (L 8315).

METOLACHLOR 800 EC, VILLA 51, WEN 51, PLATINUM PLUS 915 EC, and/en AMINO 480 SL are registered products of / is geregistreerde produkte van **VILLA CROP PROTECTION (PTY) LTD.**

2,4-D AMINE 480 SL, METOLACHLOR 915 EC, METOLACHLOR 960 EC, and/en METOLACHLOR 800 EC are registered products of / is geregistreerde produkte van **UNIVERSAL CROP PROTECTION (PTY) LTD.**

2,4-D AMINE SL, MAESTRO PLUS 800 EC, PLATINUM PLUS 915 EC, ARMANN SUPER 840 EC, ARMANN 900 EC and/en PLATINUM 960 EC are registered products of / is geregistreerde produkte van **CROPASURE (PTY) LTD.**