# DIRECTIONS FOR USE ENCLOSED Batch Number:

### Herbicide



## **TERBUCIDE PLUS 900 WDG**

Reg. No. L 9888 Act No. 36 of 1947 W130866 4: 13/03/2024 - May2024



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

#### **ACTIVE INGREDIENTS**

atrazine (triazine) terbuthylazine (triazine) 450 g/kg 450 g/kg

**GROUP** 

5

**HERBICIDE** 

#### **Hazard Statements:**

Harmful if swallowed.

May be harmful in contact with skin.

Causes mild skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

May cause damage to organs.

through prolonged or repeated

exposure.

Very toxic to aquatic life with long lasting effects.

#### Precautionary Statements:

Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.

Avoid release into the environment.



WARNING





Registration holder: UNIVERSAL CROP PROTECTION (PTY) LTD.
Co. Reg. No. 1983/008184/07
65 Botes Road, Glen Marais, Kempton Park 1619
Tel. (011) 396 2233
Website: www.villacrop.co.ac

#### IN CASE OF POISONING / 24 HR EMERGENCY NUMBERS:

Griffon Poison Information Centre (National): +27 82 446 8946
Poison Information Helpline (National): +27 861 455 777
24 Hr Transport / Spill emergency no: (Hazcall24) +27 86 044 4411
(Client: Villa Crop Protection)

#### **TERBUCIDE PLUS 900 WDG**

Reg. No. L 9888 / W130866 Act No. 36 of 1947 HRAC HERBICIDE GROUP CODE: 5

**ACTIVE INGREDIENTS:** 

Registration holder:

UNIVERSAL CROP PROTECTION (PTY) LTD.

Co. Reg. No. 1983/008184/07 65 BOTES ROAD, GLEN MARAIS KEMPTON PARK, 1619 Tel. (011) 396 2233

#### **SAFETY INFORMATION**

#### Hazard statements:

Harmful if swallowed.
May be harmful in contact with skin.
Causes mild skin irritation
May cause an allergic skin reaction
Causes serious eye irritation
May be harmful in contact with skin.
May cause damage to organs through prolonged or
repeated exposure.
Very toxic to aquatic life with long lasting effects

- Handle with care.
- 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 one (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.

#### **Precautionary statements:**

Do not breathe dust, mist and spray.

Wash hands and face thoroughly after handling. Do not touch eyes.

Do not eat, drink or smoke when using this product.

Contaminated work clothing should not be allowed out of the workplace.

Avoid release into the environment.

Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles

IF SWALLOWED OR ON SKIN: Get medical help.

IF ON SKIN: Wash with plenty of water and non-abrasive soap.

IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Get medical help if you feel unwell.

See specific treatment on this label	
Rinse mouth	
If skin irritation or rash occurs: get medical help.	
If eye irritation persists: Get medical help.	
Collect spillage.	
Dispose of contents/container to suitable landfill in accordance with local regulations.	

- 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.

Relevant hazardous components			
Atrazine	450 g/ℓ		
Terbuthylazine	450 g/ℓ		
Terwet 1004	<5 g/ℓ		

**NOTE:** The ingredients listed above contribute to the overall GHS classification, the remaining ingredients do not have to be listed according to the South African Regulations for Hazardous Chemical Agents 2021, Regulation 14(b).

In case of poisoning, call the following number: +27 82 446 8946 (Griffon Poison Information Centre) or +27 861 555 777 (Poison Information Helpline).

In case of a chemical spill call the following 24 Hr Transport / Spill emergency number: +27 86 044 4411 (Hazcall24 / Client: Villa Crop Protection).

#### **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, diarrhoea and vomiting, eye irritation, irritation of mucous membranes and skin irritations.

#### **FIRST AID MEASURES**

Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure. Immediately consult a doctor.

**Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.

**Skin contact:** Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with non-abrasive soap or mild detergent and large amounts of water until no evidence of chemical remains. **Obtain medical attention if irritation persists.** 

**Eye contact:** Flush eyes immediately with clean water for at least 15 to 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. **Obtain medical attention if irritation persists.** 

**Ingestion: Seek medical attention**. Do not induce vomiting unless instructed to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water.

#### **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.

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#### **RESISTANCE WARNING**

**TERBUCIDE PLUS 900 WDG** is a group 5 herbicide. Any weed population may contain individuals naturally resistant to **TERBUCIDE PLUS 900 WDG** and other group 5 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 5 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.

#### Mode of action

Terbuthylazine and atrazine are triazine selective systemic herbicides. They are absorbed principally through the roots, but also through the foliage, translocated acropetally in the xylem and accumulated in the apical meristems and leaves.

#### **USE RESTRICTIONS**

#### Re-cropping 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.

- 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, experimental or newly released cultivars without first consulting the seed distributor and / or supplier.
- **DO NOT** allow drift to contaminate adjacent crops. A drift retardant, such as **Interlock**® can be added when spraying.
- 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.

Read the entire label before application. This agricultural remedy is to be used only in accordance with the instructions on the label. It is an offence under the Act to use this agricultural remedy for any purpose in a manner contrary with the directions on the label.

#### Compatibility:

TERBUCIDE PLUS 900 WDG is compatible with 2,4-D Amine 480 SL, Astron® 480 SC, Astron® Smart 500 SC, Metolachlor 800 EC, Metolachlor 915 EC, Pentium Plus 915 EC, Pentium 960 EC, Premium 840 EC, Premium 900 EC, Ortron 750 WDG, Crown 750 WDG, Nicosulfuron 750 WDG, Corvette 425 SC, Villa 51/Wen 51, Velocity® Super, Velocity®-DryMax/Ams-Granule, DESTINAIRE® (L 10598), INTERLOCK®(L 10254 / W 130875 / N-AR 1856) and CLASS ACT® NG (L 10477) as recommended on this label.

- The product may flocculate when tank mixed with Paraguat.
- 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.

#### Post Spray Equipment Cleaning

It is essential to rinse the spray tank and all hoses with a 0.1 % solution of either calcium chloride or ammonium hydroxide or the recommended rate of **Protank® liquid cleaner** according to the product label. Allow this solution to stand in the spray equipment for 15 minutes; empty the spray equipment; repeat the rinsing with a 0.1 % solution of calcium chloride or ammonium hydroxide for 15 minutes; rinse all equipment with water. Nozzles and fitters must be cleaned individually. Rinse water and solution should be drained in a cesspool or drain where it will not contaminate any water source.

#### 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 to 400 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:

- <u>Volume</u>: A spray mixture volume of 30 litres per hectare is recommended. **Pre-emergence** 30 litres per hectare. **Post-emergence** 30 to 50 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.
- <u>Droplet coverage</u>: The following number of droplets per cm<sup>2</sup> must be recovered at the target area: **Preemergence** 20 to 30. **Post-emergence** 35 to 45.
- <u>Droplet size</u>: 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.

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- <u>Flying height</u>: 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 <u>atomising equipment</u> 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 <u>temperature</u> 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 <u>inversion conditions</u> (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

## 1.1 <u>Application of TERBUCIDE PLUS 900 WDG, as a solo product, for pre-emergence and early post-emergence control of weeds.</u>

Soil type	% Clay	Overal	l Application
Light sand / Sand	0 to 10 %	1.3	3 kg / ha
Loamy sand / Sandy loam	11 to 20 %	1.8	3 kg / ha
Sandy clay loam	21 to 30 %	2.2	2 kg / ha
Sandy clay loam / Sandy clay	31 to 40 %	2.7	7 kg / ha
Sandy clay, and soils high in Organic matter	41 to 50 %	2.7	7 kg / ha
Re-cropping intervals:  The listed re-cropping intervals are valid only if the correct dosage rate of TERBUCIDE PLUS 900 WDG (Atrazine + Terbuthylazine) according to soil type was applied and normal or above average rainfall occurred, after application.			
Grain sorghum 12 months			12 months
Sunflowers, Groundnuts, Soybeans, Potatoes, Dry beans, Forage sorghum and Small grains			18 months
Other crops not listed	Other crops not listed 24 months		
Maize & Sugarcane None			None

**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, followed by a **TERBUCIDE PLUS 900 WDG** application onto the 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.

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#### 1.2 CROP ROTATION WITH TRIAZINE SENSITIVE CROPS.

#### **NOTES**

- This tank mixture is to be used 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
- On soils with high lime content these rates might however still damage follow-up crops.

TERBUCIDE PLUS 900	OR			
WDG	Metolachlor 915 EC	Metolachlor 800 EC		
1.1 kg / ha	700 mℓ/ ha	800 mℓ/ ha		
THE FOLLOWING GRASS OF	R BROALEAF WEED SPECIES A	RE NORMALLY CONTROLLED BY		
	TERBUCIDE PLUS 900 WDC	S:		
	Broadleaf weeds:			
Acanthospermum australe	Eight-seeded po	rostrate starbur		
Acanthospermum glabratum	Five-seeded pro	ostrate starbur		
Acanthospermum hispidum	Upright starbur			
Amaranthus deflexus	Perennial pigwe	eed		
Amaranthus hybridus*	Common pigwe	ed		
Amaranthus spinosus	Thorny pigweed			
Amaranthus thunbergii	Red pigweed			
Bidens bipinnata	Spanish blackja	ick		
Bidens pilosa	Blackjack			
Bidens formosa	Cosmos			
Chenopodium album	White goosefoo			
Chenopodium carinatum		Green goosefoot		
Cleome monophylla	Spindlepod			
Cleome rubella	Pretty lady			
Commelina benghalensis	Bengal wanderi			
Crotalaria sphaerocarpa	Mealie Crotalar			
Datura ferox	Large thorn app	ole		
Datura stramonium	Thorn apple			
Eleusine indica		Goose grass		
Galinsoga parviflora	Gallant soldier			
Gisekia pharnaceoides	Gisekia			
Hibiscus cannabinus	Kenaf			
Hibiscus trionum	Bladderweed			
Nicandra physaloides	Apple of Peru			
Physalis angulata	Wild gooseberry	y		
Portulaca oleracea	Purslane			
Richardia brasiliensis	Tropical Richard	dia		
Schkuhria pinnata	Dwarf marigold			
Tagetes minuta	Khaki weed			
Vigna vexillata	Wild cowpea			

<sup>\*</sup> 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:		
Bidens formosa	Cosmos	
Commelina benghalensis Bengal wandering Jew		
Datura spp. Thorn apple		
Eleusine indica Goose grass		
Under abnormal wet conditions late-season weed control may be inadequate.		

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2. <u>Pre-emergence application of TERBUCIDE PLUS 900 WDG plus Pentium Plus 915 EC or Metolachlor 915 EC or Metolachlor 800 EC plus Astron® 480 SC in maize.</u>

#### **NOTES**

- Follow this pre-emergence application after approximately 35 to 42 days with a post-emergence application of registered mixtures of TERBUCIDE PLUS 900 WDG plus Acetanalides (Pentium 960 EC or Metolachlor 960 EC or Premium 900 EC) plus Astron® 480 SC plus adjuvants as instructed on the relevant labels.
- The adjuvants Villa 51 at 0.1 % PLUS Velocity® Super at 2 % (Velocity® DryMax at 1 %) should be added to the post-emergence tank mixture.
- Control of Yellow nutsedge (Cyperus esculentus): The dosage rates of Astron® 480 SC, plus Pentium Plus 915 EC or Metolachlor 915 EC or Metolachlor 800 EC, as indicated below, may provide insufficient control of Yellow nutsedge. Refer to the Pentium Plus 915 EC or Metolachlor 915 EC or Metolachlor 800 EC labels for dosage rates whereby improved control of Yellow nutsedge is obtained.
- Refer to **Astron**<sup>®</sup> **480 SC** label for improved control of Yellow nutsedge by means of pre-plant incorporation of **Astron**<sup>®</sup> **480 SC** with **EPTC Plus 720 EC** and **Premium 840 EC**.
- Refer to the Pentium Plus 915 EC or Metolachlor 915 EC or Metolachlor 800 EC labels for a list of additional weeds controlled by these products, as well as for WARNINGS, PRECAUTIONS, USE RESTRICTIONS and DIRECTIONS FOR USE.

TERBUCIDE	PLUS				
PLUS 900	Pentium Plus 915		OR	OR	Astron® 480
WDG	EC	Metolac	hlor 915 EC	Metolachlor 800 EC	SC
540 g / ha	570 to 650 mℓ/ ha	875 to 1	1000 mℓ/ ha	1000 to 1250 mℓ/ ha	210 mℓ/ ha
	1	WEEDS CO	NTROLLED		
	Botanical name			Common name	
Acanthospermum	n hispidum		Upright starb	ur	
Amaranthus hybr			Common pigv	weed	
Brachiaria erucifo	ormis		Sweet signal	grass	
Chenopodium alk	bum		White goosef	oot	
Chenopodium ca	rinatum		Green goose	foot	
Cleome monophy	ylla		Spindlepod		
Commelina beng	halensis*		Benghal wan		
Digitaria sanguina	alis		Crab fingergr		
Datura ferox			Large thorn a	pple	
Echinocloa colon	а		Marsh grass		
Eleusine indica			Goose grass		
Eragrostis curvula	а		Weeping love grass		
Hibiscus cannabi	inus		Kenaf		
Hibiscus trionum			Bladder weed		
Nicandra physalo			Apple-of-Peru		
Panicum schinzii	,		Sweet buffalo	· ·	
Physalis angulata			Wild gooseberry		
Polygonum avicu			Prostrate knotweed		
Portulaca olerace			Purslane		
Schkuhria pinnata			Dwarf marigold		
Setaria pallide-fu	sca	Red bristle grass			
Tagetes minuta			Tall Khaki weed		
	WEEDS CONTROLLED				
	Botanical name			Common name	
Triumfetta pilosa	da a		I I a unita ada a con		
			Herringbone grass		
Xanthium strumarium Cocklebur					
Re-cropping inte					
See above under	1.				

<sup>\*</sup> Only at highest recommended dosage rate.

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## 3. <u>Pre-emergence application of TERBUCIDE PLUS 900 WDG plus Premium 840 plus Astron®</u> 480 SC, in maize.

#### **NOTES**

- Follow this pre-emergence application, after approximately 35 to 42 days, with a post-emergence application of registered mixtures of TERBUCIDE PLUS 900 WDG plus Acetanalides (Pentium 960 EC or Metolachlor 960 EC or Premium 900 EC) plus Astron® 480 SC plus adjuvants, as instructed on the relevant labels.
- The adjuvants Villa 51 at 0.1 % PLUS Velocity® Super at 2 % (Velocity® DryMax at 1 %) should be added to the post-emergence tank mixture.
- Control of Yellow nutsedge (Cyperus esculentus): The dosage rates of Astron<sup>®</sup> 480 SC plus Premium 840 EC, as indicated below, may provide insufficient control of Yellow nutsedge. Refer to the Premium 840 EC labels for dosage rates whereby improved control of Yellow nutsedge is obtained.
- Refer to **Astron**<sup>®</sup> **480 SC** label for improved control of Yellow nutsedge by means of pre-plant incorporation of **Astron**<sup>®</sup> **480 SC** with **EPTC Plus 720 EC** and **Premium 840 EC**.
- Refer to the Premium 840 EC and Astron<sup>®</sup> 480 SC labels for a list of additional weeds controlled by these products, as well as for WARNINGS, PRECAUTIONS, USE RESTRICTIONS and DIRECTIONS FOR USE.

TERBUCIDE PLUS	PLUS		PLUS		
900 WDG	Premium 840 EC		Astron <sup>®</sup> 480 SC		
540 g / ha	950 to 1200 mℓ/ ha		210 to 260 mℓ/ ha		
	WEEDS CONTROLLED				
Botan	ical name		Common name		
Acanthospermum hispic	dum	Upright star	bur		
Amaranthus hybridus		Common pi	gweed		
Brachiaria eruciformis		Sweet signa	al grass		
Chenopodium album		White goose	efoot		
Chenopodium carinatun	n	Green goos	efoot		
Cleome monophylla		Spindlepod			
Commelina benghalens	is*	Benghal wa	ndering Jew		
Datura ferox		Large thorn	apple		
Digitaria sanguinalis		Crab finger	grass		
Echinocloa colona		Marsh grass			
Eleusine indica		Goose grass			
Eragrostis curvula		Weeping love grass			
Hibiscus cannabinus		Kenaf			
Hibiscus trionum		Bladder wee	ed		
Nicandra physaloides		Apple-of-Peru			
Panicum schinzii (= lae	/ifolium)	Sweet buffalo grass			
Physalis angulata		Wild gooseberry			
Polygonum aviculare		Prostrate knotweed			
Tagetes minuta		Tall Khaki weed			
Setaria pallide-fusca		Red bristle grass			
Triumfetta pilosa		-			
	WEEDS CONTROLLED				
	ical name		Common name		
Urochloa panicoides *		Herringbone grass			
Xanthium strumarium *		Cocklebur			
Re-cropping intervals:					
See above under 1.					

<sup>\*</sup> Only at highest recommended dosage rate.

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4. Post-emergence application of TERBUCIDE PLUS 900 WDG plus Pentium 960 EC or Metolachlor 960 EC or Premium 900 EC plus Astron® 480 SC, plus adjuvants in maize for extended control of annual grass weeds.

#### **NOTES**

- Apply this post-emergence application as a follow up to a pre-emergence application of TERBUCIDE PLUS 900 WDG in a tank mixture with Pentium Plus 915 EC or Metolachlor 915 EC or Metolachlor 800 EC or Premium 840 EC plus Astron® 480 SC as indicated on the registered labels.
- The adjuvants Villa 51 at 0.1 % PLUS Velocity® Super at 2 % (Velocity® DryMax at 1 %) should be added to the post-emergence tank mixture.
- Apply TERBUCIDE PLUS 900 WDG plus Pentium 960 EC or Metolachlor 960 EC or Premium 900 EC plus Astron® 480 SC, plus adjuvants post-emergence when broadleaf weeds are no larger than the 4-leaf stage and grass weeds are no larger than the 3-leaf stage.
- To improve control of larger broadleaf weeds, Morning glory and other problem weeds add 250 ml **2,4-D Amine 480 SL** to the tank mixtures as listed below (do not add any surfactant when **2,4-D Amine 480 SL** is used in a tank mixture).
- Certain weeds may not be controlled effectively at the lower dosage rates.
- Refer to the Pentium 960 EC or Metolachlor 960 EC or Premium 900 EC labels for a list of additional weeds controlled by these products, as well as for WARNINGS, PRECAUTIONS, USE RESTRICTIONS and DIRECTIONS FOR USE.
- Higher dosage rates of TERBUCIDE PLUS 900 WDG may be applied for control of additional broadleaf
  weed species and longer residual control of broadleaf weeds. Refer above for dosage rates, and a list
  of weeds controlled by TERBUCIDE PLUS 900 WDG.

	PLUS			
	Pentium 960 EC			
	410 to 510 m²/ ha			
TERBUCIDE	OR			
PLUS 900 WDG	Metolachlor 960 EC		Astron® 480 SC	Adjuvants
540 g / ha	630 to 780 mℓ/ ha		210 to 260 mℓ/ ha	(see notes)
	OR			
	Premium 900 EC			
	630 to 780 mℓ/ ha			
	WEEDS COM	NTROLLED	)	
F	Botanical name		Common name	<b>e</b>
Amaranthus hybrid	dus	Common		
Bidens bipinnata		Spanish b		
Bidens pilosa		Blackjack		
Chloris virgata**		Feathertop Chloris		
Citrullus lanatus				
Cleome monophylla Spind		Spindlepod		
Commelina bengh	Commelina benghalensis* Benghal wandering Jew			
Crotalaria sphaerocarpa Mealie crotalaria		otalaria		
Cyperus esculentus**		Yellow nu	tsedge	
Datura ferox		Large tho		
Datura stramonium	Datura stramonium Thorn apple			
	WEEDS COM	NTROLLED		
	Botanical name		Common name	<b>e</b>
Digitaria sanguina	lis	Crab finge		
Eleusine indica		Goose gra		
Galinsoga parviflo		Gallant soldier		
	Hibiscus cannabinus** Kenaf			
	Hibiscus trionum Bladder weed			
	Ipomoea purpurea		Common morning glory	
Tagetes minuta		Tall Khaki weed		
Tribulus terrestris** Dubbeltjie				
Urochloa panicoides** Herringbone grass				
Xanthium strumari	ium**	Cocklebur	<u>r</u>	

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#### **Re-cropping intervals:**

See above under 1.

- \* Only at highest dosage rate.
- \*\* Variable control of these weeds (up to 80 % suppression for a period of 8 weeks):
- 5. <u>Post-emergence application of TERBUCIDE PLUS 900 WDG plus Astron® Smart 500 SC plus Velocity® Super or Class Act® NG plus Pentium 960 EC or Metolachlor 960 EC or Premium 900 EC in GLYPHOSATE TOLERANT maize for control of annual broadleaf and grass weeds:</u>

#### **NOTES**

- <u>Important</u>: This recommended spray mixture can only be applied in genetically modified maize cultivars that are certified as being tolerant to the herbicide active ingredient glyphosate.
- Apply this post-emergence application as a follow up to a pre-emergence application of TERBUCIDE PLUS 900 WDG in a tank mixture with Pentium Plus 915 EC or Metolachlor 915 EC or Metolachlor 800 EC or Premium 840 EC plus Astron® Smart 480 SC as indicated on the registered labels.
- The adjuvants Villa 51 at 0.1 % PLUS Velocity® Super at 2 % (Velocity® DryMax at 1 %) OR Class Act® NG at 1 to 2% should be added to the post-emergence tank mixture.
- The post-emergence application should be made when broadleaf weeds are no larger than the 4-leaf stage and grass weeds are no larger than the 3-leaf stage.
- To improve control of larger broadleaf weeds, Morning glory and other problem weeds add 250 mℓ 2,4-D
   Amine 480 SL to the tank mixtures as listed below (do not add any surfactant when 2,4-D Amine 480 SL is used in a tank mixture).
- Certain weeds may not be controlled effectively at the lower dosage rates.
- Refer to the Astron<sup>®</sup> Smart 500 SC, Pentium 960 EC or Metolachlor 960 EC or Premium 900 EC labels for a list of additional weeds controlled by these products, as well as for WARNINGS, PRECAUTIONS, USE RESTRICTIONS and DIRECTIONS FOR USE.
- Higher dosage rates of TERBUCIDE PLUS 900 WDG may be applied for control of additional broadleaf
  weed species and longer residual control of broadleaf weeds. Refer above for dosage rates, and a list
  of weeds controlled by TERBUCIDE PLUS 900 WDG.

	PLUS			
TERBUCIDE PLUS 900 WDG 500 g / ha	Pentium 960 EC 410 to 500 me/ ha OR Metolachlor 960 EC 630 to 780 me/ ha OR Premium 900 EC 630 to 780 me/ ha		Astron® Smart 500 SC 2.5 // ha	<b>Adjuvants</b> (see notes)
	WEEDS COM	NTROLLED		
	Botanical name		Common name	9
Amaranthus hybri	dus	Common pigweed		
Bidens bipinnata		Spanish blackjack		
Bidens pilosa		Blackjack		
Chenopodium album		White goo		
Chloris virgata**		Featherto		
Citrullus lanatus		Wild wate		
Cleome monophy		Spindlepod		
Commelina bengh			vandering Jew	
Crotalaria sphaero	alaria sphaerocarpa Mealie crotalaria			
Cyperus esculentus**		Yellow nutsedge		
Datura ferox		Large thorn apple		
Datura stramonium		Thorn apple		
Digitaria sanguinalis		Crab fingergrass		
Eleusine indica		Goose grass Gallant soldier		
Galinsoga parviflo	ra	Gallant sc	piaier	

TERBUCIDE PLUS 900 WDG

Hibiscus cannabinus**	Kenaf
Hibiscus trionum	Bladder weed
Ipomoea purpurea	Common morning glory
Panicum schinzii (= laevifolium)	Sweet buffalo grass
Portulaca oleracea	Purslane
Richardia brasiliensis	Mexican richardia
Tagetes minuta	Tall Khaki weed
Tribulus terrestris**	Dubbeltjie
Urochloa panicoides**	Herringbone grass
Xanthium strumarium**	Cocklebur
Re-cropping intervals:	
See above under 1.	

<sup>\*</sup> Only at highest dosage rate.

## 6. <u>Post-emergence application of TERBUCIDE PLUS 900 WDG plus Ortron 750 WDG plus Pentium</u> 960 EC plus Crown 750 WDG plus Villa 51 in maize for control of various weeds.

#### **NOTES**

- Apply the tank mixture post-emergence in the 2- to 6-leaf stage for broadleaf weeds, and 2- to 3-leaf stage for grass weeds.
- Certain weeds may not be controlled effectively at the lower dosage rates.
- Refer to Ortron 750 WDG, Pentium 960 EC, Crown 750 WDG and adjuvant labels for a list of additional weeds controlled by these products, as well as for WARNINGS, PRECAUTIONS, USE RESTRICTIONS and DIRECTIONS FOR USE.

TERBUCIDE PLUS	PLUS					
900 WDG	Ortron 750 WDG	Penti	um 960 EC	Crown 750 WDG	Villa 51	
540 g / ha	165 g / ha	410 to 510 mℓ/ ha *		50 g / ha	0.1 %	
WEEDS CONTROLLED						
Botanical name			Common name			
Acanthospermum hispidum			Upright starburst			
Amaranthus hybridus			Common pigweed			
Cyperus esculentus**			Yellow nutsedge			
Datura stramonium**			Common thorn apple			
Ipomoea purpurea			Common morning glory			
WEEDS CONTROLLED						
Ipomoea hederacea			Ivy-leaved morning-glory			
Schkuhria pinnata			Dwarf Marigold			
Tagetes minuta**			Tall Khaki weed			
Xanthium strumarium **			Cocklebur			
Re-cropping interva	ls:					
See above under 1.						

<sup>\*</sup> Use the low rate on sandy soils and the higher rate on loamy / sandy clay soil.

## 7. Post-emergence application of TERBUCIDE PLUS 900 WDG plus Ortron 750 WDG plus Pentium 960 EC plus Nicosulfuron 750 WDG plus Villa 51 in maize for control of various weeds.

#### **NOTES**

- Apply post-emergence in the 2- to 6-leaf stage for broadleaf weeds, and 2- to 3-leaf stage for grass weeds
- Certain weeds may not be controlled effectively at the lower dosage rates.
- Refer to Pentium 960 EC, Nicosulfuron 750 WDG, Ortron 750 and adjuvant labels for a list of additional weeds controlled by these products, as well as for WARNINGS, PRECAUTIONS, USE RESTRICTIONS and DIRECTIONS FOR USE.

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<sup>\*\*</sup> Variable control of these weeds (up to 80 % suppression for a period of 8 weeks):

<sup>\*\*</sup> Variable control of these weeds.

TERBUCIDE	PLUS						
<b>PLUS 900 WDG</b> 540 g / ha	Ortron 750 WDG	Pentium		Nicosulfuron 750 WDG	Villa 51		
	165 g / ha	410 to 510 mℓ/ ha		60 g / ha	0.1 %		
WEEDS CONTROLLED							
	otanical name		Common name				
Amaranthus hybridus			Common pigweed				
Commelina bengha	lensis		Benghal wandering Jew				
Eleusine indica**			Goose grass				
Hibiscus trionum			Bladder weed				
Galinsoga parviflora			Gallant soldier				
Panicum schinzii			Sweet buffalo grass				
Portulaca oleracea			Purslane				
Rumex acetosella			Sheep's sorrel				
Sorghum bicolor			Wild grain sorghum				
Sorghum halepense			Johnson grass				
Tagetes minuta			Tall Khaki weed				
Triticum aestivum			Volunteer wheat				
Tribulus terrestris			Dubbeltjie / Devil's thorn				
Xanthium strumarium			Cocklebur				
Re-cropping intervals:							
See above under 1.							

<sup>\*</sup> Use the low rate on sandy soils and the higher rate on loamy / sandy clay soil.

# 8. Pre- and post-emergence application of TERBUCIDE PLUS 900 WDG plus Premium 840 EC or Premium 900 EC plus Ortron 750 WDG plus Villa 51 in maize for control of various weeds:

#### **NOTES**

- **Ortron 750 WDG** can be applied as part of a pre-emergence tank mixture application or as pre- and post-emergence tank mixture application.
- Apply Ortron 750 WDG post-emergence in the 2- to 6-leaf stage for broadleaf weeds, and 2- to 3-leaf stage for grass weeds.
- Certain weeds may not be controlled effectively at the lower dosage rates.
- Refer to the Premium 840 EC, Premium 900 EC, Ortron 750 WDG and adjuvant labels for a list of additional weeds controlled by these products, as well as for WARNINGS, PRECAUTIONS, USE RESTRICTIONS and DIRECTIONS FOR USE.

	PLUS						
PRE- EMERGENCE	TERBUCIDE PLUS 900 WDG 540 g / ha		nium 840 EC 1200 mℓ/ ha *	<b>Ortron 750 WDG</b> 165 g/ha	None		
POST- EMERGENCE	TERBUCIDE PLUS 900 WDG 540 g / ha	<b>Premium 900 EC</b> 630 to 780 mℓ/ ha *		<b>Ortron 750 WDG</b> 165 g/ha	<b>Villa 51</b> 0.1 %		
WEEDS CONTROLLED							
Botanical name			Common name				
Acanthospermum hispidum			Upright starburst				
Amaranthus hybridus			Common pigweed				
Bidens pilosa			Common blackjack				
Commelina benghalensis**			Benghal wandering Jew				
Crotalaria sphaerocarpa			Mealie crotalaria				
Cyperus esculentus**			Yellow nutsedge				
Datura ferox			Large thorn apple				
Datura stramonium**			Common thorn apple				
Digitaria sanguinalis			Crab fingergrass				
Eleusine indica			Goose grass				
Eleusine coracana			Goose grass				

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<sup>\*\*</sup> Variable control of these weeds.

Ipomoea purpurea	Common morning glory
Panicum schinzii	Sweet buffalo grass
Setaria verticillata	Sticky bristle grass
Tagetes minuta	Tall Khaki weed
Tribulus terrestris	Dubbeltjie / Devil's thorn
Xanthium strumarium	Cocklebur
Re-cropping intervals:	
See above under 1.	

<sup>\*</sup> Use the low rate on sandy soils and the higher rate on loamy / sandy clay soil.

9. Post-emergence application of TERBUCIDE PLUS 900 WDG plus Crown 750 WDG plus Corvette 425 SC plus adjuvants for the control of Yellow and Purple nutsedge and certain broadleaf weeds in maize:

#### **NOTES**

- Apply this post-emergence application as a follow up to a pre-emergence application of Corvette 425
   SC plus Premium 840 EC or Metolachlor 915 EC or Pentium Plus 915 EC as indicated on the registered labels.
- The adjuvants Villa 51 must be used with all post-emergence applications of TERBUCIDE PLUS 900
   WDG plus Corvette 425 SC plus Crown 750 WDG as indicated on the registered product labels.
- For optimum control of Nutsedge, apply **TERBUCIDE PLUS 900 WDG plus Corvette 425 SC plus Crown 750 WDG** on actively growing Nutsedge under moist conditions, 3 to 5 weeks after planting. Ensure that the application is made after the majority of the Nutsedges have germinated but before flowering. New germination of Nutsedge may occur if application was performed too early. Later applications, when the Nutsedge is in flower, will also give sub-optimal results.
- Refer to the Corvette 425 SC, Crown 750 WDG and adjuvant labels for a list of additional weeds controlled by these products, as well as for WARNINGS, PRECAUTIONS, USE RESTRICTIONS and DIRECTIONS FOR USE.

		PLUS					
TERBUCIDE PLUS 900 WDG 800 g / ha	Corvette 425 SC 1200 m// ha	<b>Crown 750 WDG</b> 50 g / ha		<b>Villa 51</b> 0.1 %			
		EDS CONTROLLE	D				
	Botanical name			Common name			
Acanthospermum his		Upright sta					
Amaranthus hybridus		Common p					
Amaranthus spinosus	5		Thorny pigweed				
	Bidens pilosa			Common blackjack			
Cleome monophylla		Single leaved cleome					
Chenopodium album		White goosefoot					
Chenopodium carinat		Green goosefoot					
	Cyperus esculentus		Yellow nutsedge				
Cyperus rotundus			Purple nutsedge				
	Datura ferox		Large thorn apple				
	Galinsoga parviflora		Gallant soldier				
Portulaca oleracea			Purslane				
Richardia brasiliensis			Tropical Richardia				
Schkuhria pinnata			Dwarf marigold				
Tagetes minuta			Tall Khaki weed				
Xanthium strumarium* Cocklebur							
Re-cropping interva	<u>IIS</u> :						
See above under 1.							

Please note: Villa 51 0.1 % = 100 mℓ per 100 litres water.

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<sup>\*\*</sup> Variable control of these weeds.

Consult the Metolachlor 800 EC, 2,4-D Amine 480 SL, Astron® 480 SC, Astron® Smart 500 SC, Metolachlor 915 EC, Metolachlor 960 EC, Pentium Plus 915 EC, Pentium 960 EC, Premium 840 EC, Premium 900 EC, Ortron 750 WDG, Crown 750 WDG, Nicosulfuron 750 WDG, Corvette 425 SC, Destinaire®, Interlock®, Class Act® NG, and Villa 51, labels for WARNINGS, PRECAUTIONS, USE RESTRICTIONS 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)
- METOLACHLOR 915 EC (L 7841 / N-AR 1361) = PLATINUM PLUS 915 EC (L 7844) = PLATINUM PLUS 915 EC (L 8249) (Metolachlor + Benoxacor),
- METOLACHLOR 960 EC (L 7136 / W 130057 / N-AR 1362) = PLATINUM 960 EC (L 7434) =
- **2,4-D AMINE 480 SL** (L 4505 / W 130459 / N-AR 1096)
- CORVETTE 425 SC (L 8323 / N-AR 1322 / W 13066) = CRUX 425 SC (L 8325) = SULCRON 425 SC (L 8483) (Sulcotrione + Atrazine)
- ORTRON 750 WDG (L 10707) = GRANTRON 750 WDG (L 10706) (Mesotrione),
- CROWN 750 WDG (L 8282) = HALO 750 WDG (L 8283 / N-AR 1337)(Halosulfuron),
- NICOSULFURON 750 WDG (L 8059) = NICORON 750 WDG (L 8045 / N-AR 1335)) (Nicosulfuron),
- VELOCITY® SUPER (L 9603 / W 130996) = AMS-SUPER (L 9758),
- VELOCITY® DRYMAX (L 9454 / W 130995 / N-AR 1528) = AMS-GRANULE (L 9610),
- VILLA 51 (L 8050 / W 130454 / N-AR 1090) = WEN 51 (L 8315).
- ASTRON<sup>®</sup> 480 SC (L 8366) = CANTRON<sup>®</sup> 480 SC (L 8365 / W 130651 / N-AR 1323) = CANONNE 480 SC (L 8735) (Mesotrione),
- ASTRON® SMART 500 SC (L 9832) = CANTRON® SMART 500 SC (L 9834) (Mesotrione + Glyphosate),
- PENTIUM PLUS 915 EC (L 9741) = PALLADIUM PLUS 915 EC (L 9359 / W 1301000) = PARTISAN PLUS 915 EC (L 9942) (S-Metolachior + Benoxacor),
- PENTIUM 960 EC (L 9830) = PALLADIUM 960 EC (L 9360 / W 130772) = PARTISAN 960 EC (L 9964) (S-metolachlor),
- PREMIUM 840 EC (L 8066) = LEAP 840 EC (L 8064 / N-AR 1103) (Acetochlor) and
- **PREMIUM 900 EC** (L 7637) = **ACETOCHLOR 900 EC** (L 7633 / N-AR 1101.

METOLACHLOR 800 EC, VILLA 51, WEN 51, PLATINUM PLUS 915 EC, PALLADIUM PLUS 915 EC, PALLADIUM 960 EC, PLATINUM PLUS 915 EC,-LEAP 840 EC, ACETOCHLOR 900 EC, GRANTRON 750 WDG, HALO 750 WDG, and NICORON 750 WDG are registered products of VILLA CROP PROTECTION (PTY) LTD.

2,4-D AMINE 480 SL, METOLACHLOR 915 EC, METOLACHLOR 960 EC, PENTIUM PLUS 915 EC, PENTIUM 960 EC, PREMIUM 840 EC, PREMIUM 900 EC, ARTISAN PLUS 915 EC, PARTISAN 960 EC, ORTRON 750 WDG, CROWN 750 WDG, NICOSULFURON 750 WDG and METOLACHLOR 800 EC are registered products of

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