

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Herbicide



DIRECTION 700 WDG

Reg. No. L 9439 Act/Wet No. 36 of/van 1947

1: 24/1/2014 – July 2016

A water-dispersible granule pre- and post-emergence herbicide for the control of certain broadleaf and grass weeds as listed, as well as the suppression of Yellow nutsedge (Cyperus esculentus) in sugarcane.

'n Water disperseerbare korrel voor- en na-opkoms onkruidodder vir die beheer van sekere breëblaaronkruiden en grasse soos gelys, asook die onderdrukking van Geeluintjies (Cyperus esculentus) in suikerriet.

ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL

amicarbazone (triazolinone) **700 g/kg** amikarbasoon (triasolinolone)

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

kg

villa

Registration holder / Registrasiehouer:

Villa Crop Protection (Pty) Ltd.

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

PO Box / Posbus 10413, Aston Manor, 1630

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UN Number: 3077

Willow Set & Print 011 394-4486



**CAUTION
VERSIGTIG**



DIRECTIONS FOR USE ENCLOSED

Batch number:

Lotnummer:

REFER TO DETAILS PRINTED
ON CONTAINER/BAG

GEBRUIKSAANWYSYNGS INGESLUIT

Date formulated:

Formuleringsdatum:

VERWYS NA BESONDERHEDE
GEDRUK OP HOUER/SAK

DIRECTION 700 WDG

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HRAC HERBICIDE GROUP CODE / HRAC ONKRUIDDODER GROEPKODE: C1

ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL:

amicarbazone (triazolinone) / amikarbasoon (triasolinoon)..... 700 g/kg

Registration holder / Registrasiehouer:

VILLA CROP PROTECTION (PTY) LTD.

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

P.O. Box / Posbus 801

KEMPTON PARK, 1620 Tel. (011) 396 2233

CAUTION / VERSIGTIG**WARNINGS**

- Handle with care.
- Harmful when swallowed.
- Avoid contact with eyes since product may cause eye irritation.
- Store in a cool, dry, well-ventilated place in tightly closed original container.
- Store away from food, feeds, seed, fertilizers and other agricultural remedies.
- Keep out of reach of children, uninformed persons and animals.
- Do not spray over or allow drift to contaminate water or adjacent areas.
- Re-entry: Do not enter treated area until spray deposit has dried unless wearing protective clothing.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions, because the action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the weeds to the remedy concerned, as well as by the method, time and accuracy of application. The registration holder further does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned, due to failure of the user to follow the label instructions or to the occurrence of conditions, which could not have been foreseen in terms of the registration. Consult the supplier in event of any uncertainty.

PRECAUTIONS

- Avoid inhalation of the spray mist or fumes.
- Avoid eye and skin contact.
- Wear a face mask and rubber gloves when handling, preparing and applying the spray mixture.
- Wash with soap and water after use or in the event of accidental skin contact.
- Wash contaminated clothing after use.
- Do not eat, drink or smoke while mixing and applying the product, before washing hands and face and change of clothing.
- Prevent drift onto other crops, grazing, rivers, dams or any other area not under treatment.
- Clean the applicator thoroughly after use and dispose of the wash water where it will not contaminate food, grazing, rivers or dams.
- **Containers and packages must be completely emptied before being disposed of. Bury in an approved, designated landfill.**
- Destroy the container/bag by perforation and dispose of it in a safe way.
- **Never** re-use the empty container/bag for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

RESISTANCE WARNING

DIRECTION 700 WDG is a group code C1 herbicide. Any weed population may contain individuals naturally resistant to **DIRECTION 700 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 **DIRECTION 700 WDG** 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

- Waiting periods – follow-up crops:

Crop	Waiting period
Sugar cane	0
Other crops	12 months

- Although **DIRECTION 700 WDG** has been tested on various sugarcane cultivars, cultivars sensitive to this herbicide, may be developed in the future. In the case of newly released cultivars, conduct a small test first to confirm crop sensitivity, before large scale application.
- Full cover applications must only be done before cane has germinated.
- Do not use **DIRECTION 700 WDG** where the soil pH exceeds a value of 7.4.
- Do not use **DIRECTION 700 WDG** on coarse-textured sandy soils.
- Avoid soils with less than 0.5 % organic matter, more than 60 % sand, and a shallow water table (less than 2 m below the surface).
- Prevent double application in one season and overlapping spray swaths.

DIRECTIONS FOR USE: Use only as indicated.

General product information:

- DIRECTION 700 WDG** is a selective pre- and post-emergence herbicide for use in sugarcane for the control of annual broadleaf and grass weeds, as well as the suppression of Yellow nutsedge.
- Always apply **DIRECTION 700 WDG** in tank mixtures with registered partner herbicides.
- Apply pre-emergence applications soon after harvesting, but before the weeds have germinated and the first cane leaves are 10 cm high.
- Certain **DIRECTION 700 WDG** combination treatments can be applied under both dry and moist soil conditions (refer “**Application instructions for dry land and irrigated ratoon sugarcane**”).

Compatibility:

- DIRECTION 700 WDG** is compatible with **Villex 750 WDG**, **Acetochlor 900 EC**, **SKOFFEL® 200 SUPER** (L 6328 / W 130059 / N-AR 1097), **MCPA 400 SL** and **Ametryn 500 SC**.
- If tank mixtures with other products are made, first confirm compatibility by mixing small volumes of the products in the correct ratio with the appropriate quantity of water. Water quality and formulation properties of other products may influence compatibility.

Mixing Instructions:

- Half fill the spray tank with clean water. Ensure agitation of water.
- Pre-mix the required amount of **DIRECTION 700 WDG** in water (ratio of 1.5 kg **DIRECTION 700 WDG** in 8 litres water) and allow to stand for 3 minutes.
- Stir well and pour slowly into the tank.
- If some residue remains in the container, add more water and stir until all is in suspension and add into the spray tank.
- Smaller amounts of **DIRECTION 700 WDG** for individual knapsack spraying should also be pre-mixed in water at the same ratio as mentioned above before use.
- Add the other registered herbicides as indicated in the application table to the tank.
- Then fill the tank to the required final volume with clean water while agitating continuously to keep the herbicides in suspension.
- Spraying should be carried out immediately after mixing and should not be allowed to stand over in the spray tank (e.g. overnight).

Ground application:

- Ensure that application equipment is correctly calibrated, in good working order and that only clean water with a suitable pH is used.
- **DIRECTION 700 WDG** can be applied with conventional ground equipment including tractor mounted sprayers and knapsack sprayers.
- Flat fan nozzles are recommended for full cover spraying with tractor mounted spray equipment, and flood jet nozzles for tractor mounted rigs with drop arms, as well as knapsack sprayers.
- A uniform and even distribution of the spray material over the target area is required for effective control of weeds.
- Apply on to a clod-free surface.
- Thoroughly flush out spraying equipment directly after completion of the spraying operation.

Application instructions for dry land and irrigated ratoon sugarcane:

- Pre-emergence applications: Apply **DIRECTION 700 WDG** in mixtures with either **Acetochlor 900 EC** or **Villex 750 WDG**.
- Post-emergence applications: Apply **DIRECTION 700 WDG** in mixtures with **MCPA 400 SL** and/or **Ametryn 500 SC**.
- Do not apply **DIRECTION 700 WDG** as a solo application.

APPLICATION RATES**1. Sugarcane: Pre-emergence application of DIRECTION 700 WDG**

Crop	Soil clay %	DIRECTION 700 WDG Dosage rate / ha	Remarks
Ratoon cane	> 10 % clay	2.0 kg PLUS 3l Acetochlor 900 EC	Apply evenly to a moist soil surface soon after harvesting. Suppression of <i>Cyperus esculentus</i> depends on early application and soil moisture levels.
Ratoon cane only (before any cane regrowth)	10 to 15 % clay	1.5 kg / ha PLUS 0.5 kg Villex 750 WDG	Apply evenly on to soil soon after harvesting. Apply the highest applicable Villex 750 WDG rate for most reliable suppression of <i>Cyperus esculentus</i> and/or control of grasses such as <i>Panicum maximum</i> . NOTE Refer to the Villex 750 WDG label for DIRECTIONS FOR USE, USE RESTRICTIONS and APPLICATION INSTRUCTIONS .
	16 to 35 % clay	1.5 kg / ha PLUS 0.8 kg Villex 750 WDG	
	> 35 % clay	1.5 kg / ha PLUS 1.0 kg Villex 750 WDG	

NOTE

Skoffel® 200 Super can be added at 1.5 litres per hectare to sugarcane treated pre-emergence if an application has been delayed and small weeds have germinated (**NOTE** – germinated Yellow Nutsedge plants will not be controlled).

WEEDS CONTROLLED (by pre-emergence DIRECTION 700 WDG applications)	
Annual broadleaf weeds:	
<i>Acacia mearnsii</i>	Black wattle
<i>Ageratum conyzoides</i>	Invading Ageratum
<i>Amaranthus thunbergii</i>	Red pigweed
<i>Argemone mexicana</i>	Mexican poppy
<i>Bidens pilosa</i>	Common blackjack
<i>Commelina benghalensis</i>	Bengal wandering Jew
<i>Convolvulus arvensis</i>	Field bindweed
<i>Conyza floribunda</i> [albida or sumatrensis]	Tall fleabane
<i>Ipomoea plebeia</i>	-
<i>Ipomea purpurea</i>	Common morning glory
<i>Portulaca oleracea</i>	Common purslane
<i>Richardia brasiliensis</i>	Tropical Richardia
<i>Senecio madagascariensis</i>	Tall Senecio / Ragwort
<i>Sida cordifolia</i>	Flannel weed
<i>Solanum nigrum</i>	Nightshade
Annual grasses	
<i>Digitaria sanguinalis</i>	Crab finger grass
<i>Eleusine coracana</i>	Goose grass
<i>Panicum maximum</i>	Common buffalo grass
<i>Panicum schinzii</i>	Sweet buffalo grass
Sedges	
<i>Cyperus esculentus</i>	Yellow nutsedge

2. Sugarcane: Post-emergence application of DIRECTION 700 WDG

Crop	Soil Type	DIRECTION 700 WDG Dosage rate / ha	Remarks
Ratoon	> 10 % clay	1.5 kg PLUS 3.5 l MCPA 400 SL PLUS A Villa approved adjuvant (surfactant) such as Summit Super	This treatment can be applied where <i>Cyperus esculentus</i> and broadleaf weed species are predominant. <i>C. esculentus</i> should be beyond the 20 % flowered stage at spraying for optimum control. Despite this treatment being relatively safe on sugarcane, direct the spray application between the rows, to avoid contact with the cane foliage.
Ratoon	> 10 % clay	1.5 kg PLUS 4.0 l Ametryn 500 SC PLUS A Villa approved adjuvant (surfactant) such as Summit Super	Apply this treatment for the control of grass seedlings. Grasses should not be beyond the tillered stage. <i>Cyperus esculentus</i> and the listed broadleaf weed species are well controlled by this treatment. Direct the spray application between the rows, to avoid contact with the cane foliage.

Crop	Soil Type	DIRECTION 700 WDG Dosage rate / ha	Remarks
Ratoon	> 10 % clay	1.5 kg PLUS 2.0 l MCPA 400 SL PLUS 2.0 l Ametryn 500 SC PLUS A Villa approved adjuvant (surfactant) such as Summit Super	Apply this treatment where <i>Cyperus esculentus</i> (Yellow nutsedge), broadleaf weeds and grasses occur together. Direct the spray application between the rows, to avoid contact with the cane foliage.

WEEDS CONTROLLED (by post-emergence DIRECTION 700 WDG applications)	
Annual broadleaf weeds:	
<i>Ageratum conyzoides</i>	Invading Ageratum
<i>Amaranthus thunbergii</i>	Red pigweed
<i>Argemone mexicana</i>	Mexican poppy
<i>Bidens pilosa</i>	Spanish blackjack
<i>Commelina benghalensis</i>	Bengal wandering Jew
<i>Conyza floribunda</i> [albida or sumatrensis]	Tall fleabane
<i>Gnaphalium pennsylvanicum</i>	Cudweed
<i>Helichrysum ruderale</i>	-
<i>Ipomoea plebeia</i>	-
<i>Mukia maderaspatana</i>	-
<i>Pseudognaphalium luteo-album</i>	Jersey cudweed
<i>Richardia brasiliensis</i>	Tropical Richardia
<i>Senecio madagascariensis</i>	Tall Senecio / Ragwort
<i>Senecio polyanthemoides</i>	-
<i>Solanum nigrum</i>	Nightshade
<i>Sonchus oleraceus</i>	Common sow thistle
Annual grasses	
<i>Panicum maximum</i>	Common buffalo grass
Sedges	
<i>Cyperus esculentus</i>	Yellow nutsedge

The **DIRECTION 700 WDG** tank mixtures control the weed species shown above. Other species that were absent in the registration trials could also be controlled to a certain degree. The registration holder does not accept any responsibility for unlisted weeds.

IMPORTANT NOTES

1. No adjuvants are necessary for pre-emerge **DIRECTION 700 WDG** treatments.
2. Better weed control will result where **DIRECTION 700 WDG** treatments are applied to soil that is free of extraneous matter (e.g. thick trash blanket)
3. **DIRECTION 700 WDG** can cause temporary leaf chlorosis and plant stunting, especially on tillered cane grown in a low clay soil. Symptoms can be severe if the spray mixture comes into direct contact with developed sugarcane leaves.

Consult the **Ametryn 500 SC**, **Skoffel® 200 Super**, **MCPA 400 SL**, **Acetochlor 900 EC**, **Villex 750 WDG** and **Summit Super** labels for **WARNINGS**, **PRECAUTIONS** and **DIRECTIONS FOR USE**.

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

- **AMETRYN 500 SC** (L 7742) = **AMETRYN 500SC** (L 7743),
- **MCPA 400 SL** (L 5793 / N-AR 1092) = **MCPA 400 SL** (L 5795 / W 130452),
- **ACETOCHLOR 900 EC** (L 7633 / N-AR 1101) = **PREMIUM 900 EC** (L 7637) = **ARMANN 900 EC** (L 8626),
- **VILLEX 750 WDG** (L 8364) = **UNIZONE 750 WDG** (L 8363) and
- **SUMMIT SUPER** (L 8539) = **BENEFIT PLUS** (L 8538).

ACETOCHLOR 900 EC, AMETRYN 500 SC, MCPA 400 SL, VILLEX 750 WDG, BENEFIT PLUS and/en **SUMMIT SUPER** are registered products of / is geregistreeerde produkte van **VILLA CROP PROTECTION (PTY) LTD.**

AMETRYN 500SC, MCPA 400 SL, PREMIUM 900 EC and/en **UNIZONE 750 WDG** are registered products of / is geregistreeerde produkte van **UNIVERSAL CROP PROTECTION (PTY) LTD.**

SKOFFEL® 200 SUPER is a registered trademark of / is 'n geregistreeerde handelsmerk van **UNIVERSAL CROP PROTECTION (PTY) LTD.**

ARMANN 900 EC is a registered product of / is 'n geregistreeerde produk van **CROP ASURE (PTY) LTD.**