

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Herbicide



METRICANE 700 WDG

Reg. No. L 8060 Act/Wet No. 36 of/van 1947

3:20/11/2017 – Nov2017

A water dispersible granule herbicide for the control of a variety of annual broadleaf weeds and grasses in crops as indicated.

'n Wateroplosbare korrel onkruidodder vir die beheer van 'n verskeidenheid eenjarige breëblaaronkruid en grasse in gewasse soos aangedui.

ACTIVE INGREDIENT / AKTIEWE BESTANDEEL

metribuzin (triazine) **700 g/kg** metribusien (triasien)

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

g

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



CAUTION
VERSIGTIG



GERUUKSAANWYSYNGS INGESLUIT

VERVY NA BESONDERHEDE
GEDRUK OP HOUER/SAK

Date formulated:

Formuleringsdatum:

DIRECTIONS FOR USE ENCLOSED

REFER TO DETAILS PRINTED
ON CONTAINER/BAG

Batch number:

Lotnommer:

METRICANE 700 WDG

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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

CAUTION / VERSIGTIG**WARNINGS**

- Allow 25 days on lucerne between the last application and harvest or grazing.
- 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.
- Re-entry: Do not enter treated area until spray deposit has dried unless wearing protective clothing.

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 spray mist or fumes.
- Avoid contact with skin and eyes.
- Wear protective rubber gloves and a face shield when handling the product.
- Wash with soap and water after use and accidental skin contact.
- Wash contaminated clothing after use.
- In case of eye contamination, rinse the eyes thoroughly with plenty of clean water for at least 20 minutes, holding the eyelid(s) open. Obtain medical assistance immediately.
- 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 and to nearby water sources.
- Clean the applicator before using with other products - dispose of wash water where it will not contaminate food, grazing, boreholes, rivers or dams.
- Destroy the empty container/bag by perforation and flattening 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

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

- Do not plant crops other than potatoes and sugarcane within 6 months of a **METRICANE 700 WDG** application.
- The following crops may be planted after a period of 6 months has elapsed following the application of **METRICANE 700 WDG**: maize, carrots, tomatoes, beetroot, asparagus, turnips and soybeans.
- 12 months should elapse following the application of **METRICANE 700 WDG**, before crops such as brassicae, cucurbits, onions, peas, beans, wheat, lettuce, tobacco and strawberries are planted.
- Prior to the planting of subsequent crops, deep and thorough ploughing (not less than 20 cm) with a mould board or disc plough is essential.
- The use of poor quality, diseased seeds or seedlings may lead to **METRICANE 700 WDG** damage. Potatoes planted from seed of 60 g and smaller may be more susceptible to damage.
- Avoid excessive overlapping of spray swaths and double spraying.
- Over-application, applying at the incorrect growth stage, or any other use not in accordance with the directions on this label, may cause stunting of crops and other effects.
- Do not apply to winter planted potatoes or potatoes that are under stress. Do not apply during the months April to September since cold weather may cause crop damage.
- Ridging too early or disturbance of soil after application of **METRICANE 700 WDG** may cause shifting of the herbicide or concentration of the herbicide over the plant row, with possible injury to the crop. Allow at least 6 weeks to elapse between application and ridging.

NOTE

Heavy rains following an application will cause leaching of the product and a decrease in the efficacy. Plant residues or stubble (mulch) covering the soil, may adversely affect the efficacy of **METRICANE 700 WDG**. Do not add wetting agents, fertilizers or any other spray materials, except those mentioned on the label.

DIRECTIONS FOR USE: Use only as directed.**Compatibility:**

- **METRICANE 700 WDG** is normally compatible with **DIURON 800 SC** and **800 WDG**, **Ametryn 500SC**, **SKOFFEL® 145 SL** (L 4347), **Skoffel® Plus 200 SL**, **Summit Super** provided mixing instructions are strictly adhered to.
- Prior to mixing in a tank, a compatibility test should be carried out to determine if the quality of the water does not affect compatibility.
- When **METRICANE 700 WDG** is used in conjunction with any other agricultural remedy, all **WARNINGS**, **PRECAUTIONS** and **DIRECTIONS FOR USE** mentioned on that label, must be adhered to.

Mixing instructions:

- Half fill the spray tank with clean water.
- Add the required amount of **METRICANE 700 WDG** to the tank, while agitating.
- Fill the spray tank with water to the required level.
- Prepared spray mixtures must not be left in the spray tank for any length of time, e.g. overnight.

APPLICATION**Ground application:**

Apply by means of a tractor-mounted boom sprayer or knapsack sprayer, equipped with flat fan nozzles, which delivers 200 to 300 litres spray mixture per hectare.

Best results are obtained when **METRICANE 700 WDG** is applied to moist soil before the weeds emerge, especially grasses, or at least when broadleaf weeds are young (not longer than 3 to 5 cm). Climatic conditions should be warm and optimal for weed growth. **METRICANE 700 WDG** normally controls weeds for 8 to 16 weeks depending on the rate of application, soil type and rainfall.

Aerial application:

Aerial application of **METRICANE 700 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: The following spray volumes are 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 kilometres 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

Crop & Soil type	Rate per ha	Remarks
Asparagus Established transplanted crop in the summer rainfall regions only > 10 % clay	1.0 kg	<u>Weeds:</u> Pre-emergence control of annual grasses and broadleaf weeds. Apply as a full cover spray on a moist soil surface.
Potatoes 0 to 10 % clay 11 to 20 % clay 21 to 35 % clay	750 g 1.0 kg 1.2 to 1.5 kg	<u>Weeds: Pre-emergence.</u> Apply after planting until just before crop emergence. The cultivars BP1, Koos Smit, Astrid, Late Harvest and Earliest of All are known to be more sensitive to Metribuzin and may be damaged under unfavourable conditions.
Tomatoes (Transplanted) 0 to 10 % clay 11 to 20 % clay 21 to 35 % clay	750 g 1.0 kg 1.2 to 1.5 kg	<u>Weeds: Pre-emergence.</u> Apply 14 days after transplanting, as a directed spray between the rows of tomatoes.

Crop & Soil type	Rate per ha	Remarks
Sugarcane Pre-emergence: 6 to 20 % clay (light sandy to sandy loam)	Not recommended on weak soils containing less than 6 % clay. 2.5 to 3.0 kg OR 1.4 to 2.0 kg PLUS 2.0 l Diuron 800 SC	Apply uniformly to a moist soil surface after planting or harvesting. The high rates will have a suppressing effect on <i>Cyperus esculentus</i> .
21 to 35 % clay (loam to sandy clay loam)	3.0 kg OR 1.7 to 2.0 kg PLUS 2.0 l Diuron 800 SC	If <i>Panicum maximum</i> is present, the application should be performed pre-emergence (or very early post-emergence).
Early post-emergence: 6 to 20 % clay (light sandy to sandy loam)	2.5 to 3.0 kg OR 1.4 to 2.0 kg PLUS 2.0 l Diuron 800 SC OR 1.4 to 2.0 kg PLUS 3.0 to 4.0 l Ametryn 500SC	Apply before the grass weeds, especially <i>Panicum maximum</i> , are in the 2 to 3 leaf stage and broadleaf weeds are in the 4 to 6 leaf stage. Apply the high rates when <i>Cyperus esculentus</i> is present.
21 to 35 % clay (loam to sandy clay loam)	3.0 kg OR 1.7 to 2.0 kg PLUS 2.0 l Diuron 800 SC OR 1.7 to 2.0 kg PLUS 3.0 to 4.0 l Ametryn 500SC	The addition of Skoffel® 145 SL as recommended in plant cane to METRICANE 700 WDG + Diuron 800 SC or to METRICANE 700 WDG + Ametryn 500SC will enhance the efficacy, particularly where <i>Panicum maximum</i> is a problem or has developed beyond the 3-leaf stage, but is still in a stage prior to tillering.
Aerial application: Early post-emergence: 6 to 35 % clay (light sand to sandy clay loam)	2.5 kg PLUS 2.5 l Diuron 800 SC	<u>Early post-emergence.</u> Apply uniformly in 30 to 40 litres spray solution per hectare. Refer “ REMARKS ” above.
Lucerne Established crop 0 to 10 % clay 11 to 20 % clay 21 to 35 % clay	750 g 1.0 kg 1.2 to 1.5 kg	<u>Weeds: Pre-emergence.</u> Apply as a full cover spray just prior to weed emergence to established, dormant lucerne that has completed a full growth season. Do not apply METRICANE 700 WDG to soils with high pH values (pH > 7), on soils with nutrient deficiencies or under waterlogged conditions. Use only on the cultivars CUF 101, SA Standard and Granada.
Lucerne	0.75 kg PLUS 2.5 l Skoffel® Plus 200 SL PLUS 0.1 % Summit Super OR 1.0 l/ha Summit	Apply in lucerne older than six (6) months just before dormancy breaks or immediately after harvesting, before re-growth of lucerne occurs. Apply in at least 200 litres water per hectare. Consult the Skoffel® Plus 200 SL label for WARNINGS, PRECAUTIONS and DIRECTIONS FOR USE.

Broadleaf weeds normally controlled by METRICANE 700 WDG:	
<i>Acalypha ecklonii</i>	Acalypha
<i>Acanthospermum hispidum</i>	Upright starbur
<i>Ageratum conyzoides</i>	Blue weed
<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>Ambrosia maritima</i>	Ragweed
<i>Anthemis cotula</i>	Stinking mayweed
<i>Argemone mexicana</i>	Mexican prickly poppy
<i>Bidens pilosa</i>	Blackjack
<i>Borreria natalensis</i>	Button weed
<i>Cenia turbinata</i>	Daisy
<i>Chenopodium album</i>	White goosefoot
<i>Chenopodium carinatum</i>	Green goosefoot
<i>Chenopodium murale</i>	Nettle-leaved goosefoot
<i>Cirsium vulgare</i>	Scotch thistle
<i>Cleome monophylla</i>	Spindlepod
<i>Commelina benghalensis</i>	Benghal wandering Jew
<i>Conyza canadensis</i>	Horseweed fleabane
<i>Datura ferox</i>	Large thornapple
<i>Datura stramonium</i>	Thorn apple
<i>Emex australis</i>	Spiny emex
<i>Fumaria muralis</i>	Fumitory
<i>Euphorbia</i> spp.	Milkweed
<i>Galinsoga parviflora</i>	Gallant soldier
<i>Gnaphalium luteo-album</i>	Jersey cudweed
<i>Hibiscus trionum</i>	Bladderweed
<i>Leucas martinicensis</i>	Bobbinweed
<i>Nicandra physaloides</i>	Apple-of-Peru
<i>Physalis angulata</i>	Wild gooseberry
<i>Polygonum aviculare</i>	Prostrate knotweed
<i>Portulaca oleraceae</i>	Common purslane
<i>Raphanus raphanistrum</i>	Wild radish
<i>Richardia brasiliensis</i>	Tropical richardia
<i>Schkuhria pinnata</i>	Dwarf marigold
<i>Siegesbeckia orientalis</i>	Common St Paul's wort
<i>Solanum retroflexum</i>	Black nightshade
<i>Spergula arvensis</i>	Corn spurry
<i>Stellaria media</i>	Chickweed
<i>Tagetes minuta</i>	Khakhi weed
<i>Tribulus terrestris</i>	Dubbeltjie
<i>Urtica urens</i>	Small stinging nettle
<i>Verbena bonariensis</i>	Purple top
<i>Xanthium spinosum</i>	Spiny cocklebur
<i>Xanthium strumarium</i>	Cocklebur

Grasses controlled by METRICANE 700 WDG:	
<i>Chloris virgata</i>	Feather-top chloris
<i>Digitaria sanguinalis</i>	Crab fingergrass
<i>Echinochloa crusgali</i>	Barnyard grass
<i>Ehrharta longiflora</i>	Oat seed grass
<i>Eleusine indica</i>	Goose grass
<i>Eragrostis</i> spp.	Love grass
<i>Panicum coloratum</i>	Small buffalo grass
<i>Panicum maximum</i> *	Common buffalo grass
<i>Panicum schinzii</i>	Sweet buffalo grass
<i>Setaria verticillata</i>	Burr bristle grass
<i>Tragus racemosus</i>	Large carrot-seed grass
<i>Urochloa panicoides</i>	Herringbone grass
<i>Cyperus esculentus</i> *	Yellow nutsedge
<i>Mariscus macer</i> *	-

- * - Require 3 kg **METRICANE 700 WDG** per hectare for adequate control.
- *Cyperus rotundus* and *Solanum nigrum* are normally not controlled with **METRICANE 700 WDG**.

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

- **AMETRYN 500SC** (L 7743) = **AMETRYN 500 SC** (L 7742),
- **SUMMIT** (L 8328) = **RAVEN** (L 9790),
- **SUMMIT SUPER** (L 8539) = **BENEFIT PLUS** (L 8538) and
- **SKOFFEL® PLUS 200 SL** (L 9062) = **SKOFFEL® DUO 200 SL** (L 9063).

AMETRYN 500 SC, SUMMIT, RAVEN, SUMMIT SUPER and/en **BENEFIT PLUS** are registered products of / is geregistreeerde produkte van **VILLA CROP PROTECTION (PTY) LTD.**

AMETRYN 500SC is a registered product of / is 'n geregistreeerde produk van **UNIVERSAL CROP PROTECTION (PTY) LTD.**

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