

READ THE LABEL BEFORE USE. KEEP OUT OF REACH OF CHILDREN AND ANIMALS.

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

Herbicide



NICOSULFURON 750 WDG

Reg. No. L 8059 Act No. 36 of 1947

3: 17/01/2023 – May2024

A water dispersible granule, selective post-emergence grass and broadleaf herbicide for the control of grasses, sorghum species and broadleaf weeds in maize.

ACTIVE INGREDIENT

nicosulfuron (sulfonyl urea)

750 g/kg

GROUP

2

HERBICIDE



WARNING

Hazard Statements:

May be harmful in contact with skin.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

Avoid release to the environment.
IF ON SKIN: Get medical help.

kg

villa



UN Number: 3077

Registration holder: UNIVERSAL CROP PROTECTION (PTY) LTD.

Co. Reg. No. 1983/008184/07

P.O. Box 801, Kempton Park, 1620

Tel. (011) 396 2233

Website: www.villacrop.co.za

24 HR EMERGENCY NUMBERS:

Griffon Poison Centre: +27 82 446 8946

24 HR Transport / Spill Emergency no: (Hazcall24) +27 86 044 4411

(Client: Villa Crop Protection)

DIRECTIONS FOR USE ENCLOSED

Batch Number:

Date of Manufacture:

NICOSULFURON 750 WDG

Reg. No. L 8059 Act No. 36 of 1947

HRAC HERBICIDE GROUP CODE: 2

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WARNINGS**Hazard statements**

| |
|---|
| May be harmful in contact with skin. |
| Very toxic to aquatic life. |
| Very toxic to aquatic life with long lasting effects. |

- **Withholding period:** Allow **60 days** between application and harvest of maize.
- **DAMAGE TO THE CROP MAY OCCUR SHOULD THE RECOMMENDED DOSAGE RATE AT THE RECOMMENDED TIME OF APPLICATION BE EXCEEDED.**
- Store in a cool, dry, well-ventilated place in the 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.
- **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 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 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**Precautionary statements:**

| |
|--|
| Avoid release to the environment. |
| IF ON SKIN: Get medical help. |
| Collect spillage. |
| Dispose of contents/container in accordance with local regulations |

- Avoid inhalation of dust and/or spray mist.
- Avoid contact with skin, eyes and clothing.
- Wash with soap and water immediately after use or after accidental skin contact.
- Wash contaminated clothing daily.
- Do not eat, drink or smoke whilst mixing or applying the product, or before washing hands and face and change of clothing.
- Avoid spray drift on to susceptible or edible crops, grazing, rivers, dams and areas not under treatment.
- **Cleaning of Application Equipment:** Special attention and care must be taken with cleaning of all equipment used in the mixing and application of **NICOSULFURON 750 WDG**, before using it for applications in other crops:
 1. Drain the spray tank and rinse thoroughly with ample water. Flush the pipes, boom and nozzles of applicator with the water.
 2. Drain the spray tank again and fill with clean water.
 3. Add household ammonia to water in the spray tank (1 litre for every 100 litres water) or 1 litre sodium hypochlorite (4.5 %) per 200 litres water.
 4. Bleed the system to ensure that all pipes, booms and nozzles are filled with the ammonia solution.

5. Leave the ammonia solution in the applicator for at least one hour.
 6. Drain the spray tank and pipe system completely.
 7. **Repeat steps 2 to 6.**
 8. Remove ammonia residues by flushing the system thoroughly with clean water.
 9. Contamination of mixing equipment must also be washed with ammonia solution, whilst those on the outside of equipment can be washed with water.
- **Do not** dispose of wash water where it will contaminate crops, grazing, boreholes, rivers or dams or contaminate the roots of desirable plants.
 - Rinse the container three times with a volume of water equal to a quarter of that of the container. Puncture the triple rinsed container/bag and dispose of via an approved collector or recycler www.croplife.co.za. Do not bury, burn, or donate the container/bag to any other parties that may use it as a container for food or beverages
 - **Do not** spray or flush equipment on or near desirable trees or plants or areas where their roots may extend.
 - Prevent contamination of food, feeds, drinking water and eating utensils.

| Relevant hazardous components | |
|-------------------------------|--------|
| Nicosulfuron | 75 % |
| Calcium Lignosulfonate | < 20 % |

FIRST AID TREATMENT

- 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 and consult a doctor / poison control centre.
- **Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation persists / person feels unwell.
- **Skin:** Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Obtain medical attention if irritation persists / person feels unwell.
- **Eyes:** Flush eyes with clean water. Lift eyelids to facilitate irrigation. If present, remove contact lenses and continue rinsing. Seek medical attention if irritation persists.
- **Ingestion:** Seek medical attention or call a poison control centre for treatment advice. 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.

RESISTANCE WARNING

NICOSULFURON 750 WDG is a group code 2 herbicide. Any weed population may contain individuals naturally resistant to **NICOSULFURON 750 WDG** and other group code 2 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **NICOSULFURON 750 WDG** or any other group code 2 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.

Mode of Action: **NICOSULFURON 750 WDG** is a selective, systemic herbicide, absorbed by foliage and roots, translocated in xylem and phloem to meristematic tissues. Selectivity in maize is due to cytochrome P450-mediated C-5 pyrimidine hydroxylation, followed by conjugation with glucose. It is a branched chain amino acid synthesis inhibitor. It works through inhibition of acetolactate synthase (ALS, also known as acetohydroxy acid synthase, AHAS), blocking the biosynthesis of the amino acids valine, leucine and isoleucine, hence stopping cell division and plant growth.

USE RESTRICTIONS

- The use of **NICOSULFURON 750 WDG** under certain climatic conditions (e.g. a lengthy wet and cold period) or such conditions prevailing soon after application, may result in temporary yellowing or stunting of the crop.
- Certain cultivars are more susceptible to yellowing and stunting than others and a representative of the relevant seed company should be consulted before planting a field where **NICOSULFURON 750 WDG** is to be used.
- **Do not** apply on Sweetcorn, Popcorn or seed maize.

- **Do not** apply **NICOSULFURON 750 WDG** in combination with an organophosphate insecticide or within 14 days of an organophosphate application.
- **Do not** use **NICOSULFURON 750 WDG** following in-furrow applications of organophosphate granular insecticides, e.g. **Terbufos** and **Phorate**.
- The two restrictions mentioned above **do not** apply to carbamate insecticides. For further information consult the registration holder of this product.
- **Follow-up crops:** The amount of **NICOSULFURON 750 WDG** residues remaining in the soil depend on the rate applied, soil pH, organic matter content, time lapsed, climatic and weather conditions since the **NICOSULFURON 750 WDG** application.

MINIMUM RE-PLANTING INTERVAL

| Soil pH below 7.0 | | Soil pH above 7.0 | |
|--|--------|--|--------|
| Crop | Months | Crop | Months |
| Maize | 0 | Maize | 0 |
| Cereals (Wheat, Barley, Oats), Soy beans, Dry beans & Sunflowers | 8 | Cereals (Wheat, Barley, Oats), Soy beans, Dry beans & Sunflowers | 12 |
| Sorghum and all other crops | 12 | Sorghum and all other crops | 24 |

- **NICOSULFURON 750 WDG** has a limited residual effect on germinating weeds, the control of which is affected by factors such as weed species, soil pH and soil moisture.
- Under no circumstances must unused spray mixture be kept overnight.
- **Do not** apply **NICOSULFURON 750 WDG** to maize under stressed conditions e.g. due to water logging, drought, disease, insect damage or mineral element deficiencies (especially nitrogen).
- Only use water of which the quality is suitable for overhead irrigation.

DIRECTIONS FOR USE: Use only as directed.

Compatibility:

- **NICOSULFURON 750 WDG** is compatible with **Astron® 480 SC**, **TERBUSIEN SUPER 600 SC** (L 5435 / N-AR 1110), **Platinum 960 EC/Metolachlor 960 EC**, **Premium 900 EC/Acetoachlor 900 EC**, **Terbucide 600 WDG/Terbuweed 600 WDG** and **Villa 51**.
- When **NICOSULFURON 750 WDG** is used in conjunction with any other agricultural remedy, adhere to all **WARNINGS**, **PRECAUTIONS** and **DIRECTIONS FOR USE** mentioned on that label.

General Application Conditions:

- **NICOSULFURON 750 WDG** must be applied after emergence of both the crop and the weeds.
- Only prepare sufficient spray mixture for immediate use.

Mixing instructions:

Pre-mixing:

- Pre-mix the required amount of **NICOSULFURON 750 WDG** in a small amount of water to obtain a "smooth cream" without any remaining granules.

Mixing:

- Half fill the spray tank with clean water.
- Add the pre-mixed, creamed product to the tank through a sieve. Fill the tank to the required final volume with clean water while agitating continuously, then proceed as follows:

High volume (e.g. ground sprayer)

Add the required amount of adjuvant (wetter/spreader/penetrant) to the spray mixture and wait until the adjuvant (wetter/spreader/penetrant) is thoroughly mixed, before commencing with application.

- Ensure thorough agitation of the spray mixture at all times.

APPLICATION

Ground Application:

- Apply by means of a tractor mounted boom sprayer, which is correctly calibrated to deliver at least 200 litres spray mixture per hectare at constant speed and pressure (100 to 200 kPa), to ensure an even distribution and coverage.
- In order to prevent over-application, avoid overlapping of swaths and close the nozzles when starting, moving slowly, turning or stopping.

Drift:

- Avoid spray drift to adjacent crops and non-target areas.

Adjuvants:

- The use of an adjuvant (wetter/spreader/penetrant) at the label recommended rate, is always recommended.

APPLICATION RATES

| <i>Crop</i> | <i>Soil Type</i> | <i>Dosage / ha</i> | <i>Remarks</i> |
|---------------------|------------------|--|---|
| <u>Maize</u> | All soil types | 60 g NICOSULFURON 750 WDG PLUS an adjuvant (wetter/spreader/penetrant) at the label recommended rate) | <u>WARNING</u> Refer to antagonism restriction with organophosphate insecticides under “USE RESTRICTIONS” above. Apply as a post-emergence application over the top of the maize. Apply when the crop is in the 2- to 6-leaf stage, after emergence of the weeds. Use drop-arms to direct application in-between rows. <ul style="list-style-type: none"> • Apply when weeds are actively growing and do not exceed the optimum growth stages indicated below. • Only apply a late second application at 7- to 10-leaf crop stage with dropped nozzles (directed spray) in order to avoid spraying directly into plant funnel and to ensure that the weeds are not shielded from the spray by the crop's leaves. • Cultivation subsequent to application of NICOSULFURON 750 WDG may lead to re-growth of rhizomes. |

WEEDS NORMALLY CONTROLLED: from seedling (1 to 2 leaves) up to the stage indicated.

| <i>Botanical name</i> | <i>Common name</i> | <i>Maximum size of weeds at time of application</i> |
|------------------------------------|---------------------|---|
| Grasses: | | |
| <i>Panicum schinzii</i> | Sweet buffalo grass | Up to tillering stage |
| <i>Rottboellia cochinchinensis</i> | Guinea fowl grass | Up to 4 leaves |
| <i>Setaria pallide-fusca</i> | Red bristle grass | Up to 4 leaves |
| Broadleaf weeds: | | |
| <i>Amaranthus thunbergii</i> | Red pigweed | 4 leaves |
| <i>Amaranthus deflexus</i> | Perennial pigweed | 4 leaves |
| <i>Cleome monophylla</i> | Spindlepod | 6 leaves |
| <i>Datura stramonium</i> | Thorn apple | 4 leaves |
| <i>Schkuhria pinnata</i> | Dwarf marigold | 3 leaves |
| <i>Tagetes minuta</i> | Tall khakiweed | 4 leaves |
| <i>Tribulus terrestris</i> | Common dubbeltjie | 4 leaves |
| Sorghum species: | | |
| <i>Sorghum bicolor</i> | Wild grain sorghum | Up to 7 leaves |
| <i>Sorghum halepense</i> | Johnson grass | Up to 7 leaves |

Post-emergence application of Nicosulfuron 750 WDG plus Astron 480 SC plus Villa 51 on maize:**NOTES:**

- Re-growth from established grass tufts will not be controlled.
- Use **drop-arms** to direct application in-between rows. This mixture cannot be applied by means of aerial application.
- Refer to the **Astron® 480 SC** label for a complete list of weeds controlled by **Astron® 480 SC**.
- Adhere to all **USE RESTRICTIONS** and **DIRECTIONS FOR USE** as indicated on the **Astron® 480 SC** label.

WEEDS NORMALLY CONTROLLED: from seedling (1 to 2 leaves) up to the stage indicated.

| WEEDS NORMALLY CONTROLLED: | | |
|------------------------------------|-------------------------------|--|
| NICOSULFURON 750 WDG 60 g / ha | PLUS | |
| | Astron® 480 SC 260 ml / ha | |
| PLUS Villa 51 (0.1 %) | | |
| Botanical name | Common name | Maximum size of weeds at time of application |
| Grasses: | | |
| <i>Panicum schinzii</i> | Sweet buffalo grass | Up to tillering stage |
| <i>Rottboellia cochinchinensis</i> | Guinea fowl grass | Up to 4 leaves |
| <i>Setaria pallide-fusca</i> | Red bristle grass | Up to 4 leaves |
| Broadleaf weeds: | | |
| <i>Amaranthus hybridus</i> | Common pigweed | 4 leaves |
| <i>Amaranthus thunbergii</i> | Red pigweed | 4 leaves |
| <i>Amaranthus deflexus</i> | Perennial pigweed | 4 leaves |
| <i>Cleome monophylla</i> | Spindlepod | 6 leaves |
| <i>Datura ferox</i> | Large thorn apple | 3 leaves |
| <i>Datura stramonium</i> | Thorn apple | 4 leaves |
| <i>Schkuhria pinnata</i> | Dwarf marigold | 3 leaves |
| <i>Tagetes minuta</i> | Tall khakiweed | 4 leaves |
| <i>Tribulus terrestris</i> | Common dubbeltjie | 4 leaves |
| Sorghum species: | | |
| <i>Sorghum bicolor</i> | Wild grain sorghum | Up to 7 leaves |
| <i>Sorghum halepense</i> | Johnson grass | Up to 7 leaves |

Post-emergence application of NICOSULFURON 750 WDG plus Astron® 480 SC plus Terbuticide 600 WDG/Terbuweed 600 WDG or Terbusien Super 600 SC plus Villa 51 for control of *Sorghum* species and certain broadleaf weeds in maize:

NOTES

- This treatment can be applied as a stand-alone post-emergence application or as a follow up to a pre-emergence application of **Astron® 480 SC** in tank mixture with **Metolachlor 800 EC** or **Platinum Plus 915 EC/Metolachlor 915 EC** or **Leap 840 EC/Premium 840 EC** as indicated on the registered labels.
- **Platinum 960 EC/Metolachlor 960 EC** or **Premium 900 EC/Acetochlor 900 EC** can be added at 400 to 800 ml per hectare to this tank mixture for residual control of grass weeds.
- The adjuvant **Villa 51** at 0.1 % must be used with all post-emergence applications of **Nicosulfuron 750 WDG** plus **Astron® 480 SC**, as indicated on the registered label.
- This mixture cannot be applied by means of aerial application.
- Apply with dropped nozzles (directed spray) in order to avoid spraying directly into plant funnel and to ensure that the weeds are not shielded from the spray by the crop's leaves.
- Refer to the **Astron® 480 SC** and **Terbuticide 600 WDG/Terbuweed 600 WDG** or **Terbusien Super 600 SC** labels for a complete list of weeds controlled by these products.
- Adhere to all **USE RESTRICTIONS** and **DIRECTIONS FOR USE** as indicated on the **Astron® 480 SC** and **Terbuticide 600 WDG/Terbuweed 600 WDG** or **Terbusien Super 600 SC** label.

| NICOSULFURON 750 WDG 60 g / ha | PLUS | PLUS | | PLUS |
|---|-------------------------------------|---|--|---------------------|
| | Astron® 480 SC 210 to 260 mℓ/ ha | Terbucide 600 WDG /Terbuweed 600 WDG 800 g / ha | OR Terbusien Super 600 SC 800 mℓ/ ha | Villa 51 (0.1 %) |
| WEEDS NORMALLY CONTROLLED From seedling (1 to 2 leaves) to stage as indicated. | | | | |
| Botanical name | Common name | | Maximum size of weeds at time of application | |
| Grasses: | | | | |
| Panicum schinzii | Sweet buffalo grass | | Up to tillering stage | |
| Rottboellia cochinchinensis | Guinea fowl grass | | Up to 4 leaves | |
| Setaria pallide-fusca | Red bristle grass | | Up to 4 leaves | |
| Broadleaf weeds: | | | | |
| Acanthospermum hispidum | Upright starbur | | 6 leaf | |
| Amaranthus hybridus | Common pigweed | | 4 leaves | |
| Amaranthus thunbergii | Red pigweed | | 4 leaves | |
| Amaranthus deflexus | Perennial pigweed | | 4 leaves | |
| Bidens pilosa | Common blackjack | | 6 leaf | |
| Cleome monophylla | Spindlepod | | 6 leaves | |
| Commelina benghalensis | Wandering Jew | | 6 leaf | |
| Datura ferox | Large thorn apple | | 3 leaves | |
| Datura stramonium | Thorn apple | | 4 leaves | |
| Galinsoga parviflora | Gallant soldier | | 6 leaf | |
| Portulaca oleracea | Purslane | | 6 leaf | |
| Richardia brasiliensis | Tropical Richardia | | 6 leaf | |
| Schkuhria pinnata | Dwarf marigold | | 3 leaves | |
| Tagetes minuta | Tall khakiweed | | 4 leaves | |
| Tribulus terrestris | Common dubbeltjie | | 4 leaves | |
| Xanthium strumarium* | Cocklebur | | 6 leaf | |
| Sorghum species: | | | | |
| Sorghum bicolor | Wild grain sorghum | | Up to 7 leaves | |
| Sorghum halepense | Johnson grass | | Up to 7 leaves | |

* Only at highest recommended dosage rates.

NOTE

Higher dosage rates of **Terbusien Super 600 SC** or **Terbucide 600 WDG/Terbuweed 600 WDG** may be applied for control of additional broadleaf weed species, difficult to control weeds, high weed pressure situations and longer residual control of broadleaf weeds. Refer to the **Terbusien Super 600 SC** or **Terbucide 600 WDG/Terbuweed 600 WDG** labels for dosage rates, and a list of additional weeds controlled by this product.

Consult the **Astron® 480 SC**, **Terbusien Super 600 SC**, **Platinum 960 EC/Metolachlor 960 EC**, **Premium 900 EC/Acetoachlor 900 EC**, **Terbucide 600 WDG/Terbuweed 600 WDG** and **Villa 51** labels for **WARNINGS**, **PRECAUTIONS** and **DIRECTIONS FOR USE**.

The following products mentioned in this label are equivalent to the products listed below:

- **ASTRON® 480 SC** (L 8366) = **CANTRON® 480 SC** (L 8365 / N-AR 1323 / W 130651) = **CANONNE 480 SC** (L 8735) (**Mesotrione**),
- **METOLACHLOR 960 EC** (L 7136 / N-AR 1362 / W 130057) = **PLATINUM 960 EC** (L 7434 / N-AR 1108),
- **PREMIUM 900 EC** (L 7637) = **ACETOCHLOR 900 EC** (L 7633 / N-AR 1101),
- **TERBUCIDE 600 WDG** (L 8799 / W 1301046) = **TERBUWEED 600 WDG** (L 8800) = **TERBUMAIS 600 WDG** (L 8798) and
- **VILLA 51** (L 8050 / W 130454 / N-AR 1090) = **WEN 51** (L 8315).

**METOLACHLOR 960 EC, PREMIUM 900 EC, TERBUCIDE 600 WDG, TERBUMAIS 600 WDG, and
ASTRON® 480 SC** are registered products of
UNIVERSAL CROP PROTECTION (PTY) LTD.

**CANTRON® 480 SC, PLATINUM 960 EC, ACETOCHLOR 900 EC, TERBUWEED 600 WDG, TERBUSIEN
SUPER 600 SC, VILLA 51 and WEN 51** are registered products of
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