



# SHARDA HALOSULFURON 750 WDG

Reg. No. L10855, Act No. 36 of 1947 | Reg. Nr. L10855 Wet Nr. 36 van 1947

A water dispersible granule postemergence herbicide for the control of nutsedge and certain broadleaf weeds in crops as indicated.

## HERBICIDE GROUP CODE B

### ACTIVE INGREDIENT

Halosulfuron-methyl (sulfonylurea) 750 g/kg

Manufactured for and registered by/ Vervaardig vir en geregistreer deur:

**Registration Holder | Registrasiehouer**

Sharda International Africa (PTY) LTD

Reg. No./Reg. Nr. 2010/002268/07

P. O. Box/Posbus 82021, Southdale, 2135

Tel: 031-764 3011

Tel: 087-822 2397

'n Waterdispergeerbare korrel naopkomsonkruiddoder vir die beheer van uintjies en sekere breëblaaronkruid in gewasse soos aangedui.

## ONKRUIDDODER GROEPKODE B

### AKTIEWE BESTANDDEEL

Halosulfuronmetiel (sulfonylureum) 750 g/kg

BATCH NUMBER LOT NOMMER	
EXPIRY DATE VERVAL DATUM	

NET CONTENTS /  
NETTO INHOUD

# 250g

**READ THE LABEL IN DETAIL BEFORE OPENING THE CONTAINER. / LEES DIE ETIKET VOLLEDIG VOORDAT DIE HOUER OOPGEMAAK WORD.**  
For full particulars, see enclosed leaflet. / Vir volledige besonderhede, sien ingeslote pamflet.

## UN 3077

© Sharda International Africa (Pty) Ltd



CAUTION  
VERSIGTIG



**WARNINGS:**

- Handle with care.
- Harmful when swallowed.
- May cause slight skin and eye irritation.
- May be harmful to aquatic organisms.
- Store under lock and key in a cool, dry place, away from food, feeds, seed, fertilizer and other agricultural chemicals.
- 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.
- Should the recommended dosage rate be exceeded, crop damage may result with consequent yield reduction.
- Avoid storage above 35 °C.

Although this herbicide 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 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:**

- Do not inhale spray mist.
- Avoid contact with skin and eyes.
- Wear protective clothing, e.g. rubber gloves, rubber boots and a face mask when handling the product and preparing the spray mixture.
- Wash contaminated clothing after use.
- Do not eat, drink or smoke while mixing, applying or before washing hands and face or changing clothing.
- Avoid drift onto other crops, grazing, rivers, dams or areas not under treatment.
- Clean applicator after use: Special attention and care must be taken in cleaning all equipment used in the mixing and application of Sharda Halosulfuron 750 WDG to avoid possible damage to other crops.
  - Drain tank completely and flush tank, boom, hoses and nozzles with ample clean water.
  - Drain tank again and fill with clean water.
  - Add household ammonia at a rate of 1 litre for every 100 litres of water.
  - Bleed the entire system once again to ensure that the ammonia solution has filled all hoses, boom and nozzles.
- v) Leave the ammonia solution in the system for approximately 1 hour before draining the tank and pipe system.
- vi) Repeat steps iii) to v).
- vii) Nozzles and filters should be removed and placed in an ammonia solution of the above concentration above for at least 1 hour.
- viii) Contamination on mixing equipment should be washed with ammonia solution and any contamination on the outside of spraying equipment can be removed with clean water.
- Dispose of wash water where it will not contaminate food, grazing, boreholes, rivers or dams.
- This applicator should not be used for applying chemicals other than herbicides.
- Containers and packages must be completely emptied before being disposed of. Shake out thoroughly into the mixing tank and destroy the empty container.
- Do not re-use the empty container for any other purpose.
- Prevent contamination of food, feed, drinking water and eating utensils.

**FIRST AID:**

**Eye contact:** Flush eyes with plenty of clean water, occasionally lifting upper and lower eye lids, for at least 15 minutes. Check for, and remove if present, any contact lenses after the first 5 minutes of flushing. Get medical attention should any symptoms develop or persist.

**Skin contact:** Remove all contaminated clothing and leather items. Wash the skin thoroughly with soap and water, and rinse the skin with large quantities of clean water. Wash any contaminated clothing before reuse.

**Inhalation:** Remove patient to fresh air. Get medical attention should any symptoms develop or persist.

**Ingestion:** If swallowed, immediately give a large amount of water to drink. Rinse the mouth with clean water. Do not induce vomiting. If vomiting does occur, administer more water. Never give anything by mouth to an unconscious person. Get medical attention.

**NOTE TO PHYSICIAN:** There is no specific antidote. Treat symptomatically and supportively. If large quantities have been ingested, gastric lavage and the administering of activated charcoal may be considered, as well as forced alkaline diuresis or haemodialysis.

**RESISTANCE WARNING:**

For resistance management, Sharda Halosulfuron 750 WDG is a group code B herbicide. Any weed population may contain individuals naturally resistant to Sharda Halosulfuron 750 WDG and other group code B herbicide. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by Sharda Halosulfuron 750 WDG or any other group code B 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 the control methods (chemical, cultural, biological) into weed control programmes.
- For specific information on resistance management contact the registration holder of this product.
- The presence of resistant weeds is difficult to detect prior to use and therefore neither the registration holder nor the distributor can accept responsibility for any losses as a result of Sharda Halosulfuron 750 WDG not controlling resistant weeds.
  - Do not apply Sharda Halosulfuron 750 WDG alone in situations where weed resistance has been confirmed.
  - Sub-standard application of Sharda Halosulfuron 750 WDG or other ALS inhibitor (group B) herbicides will lead to inferior weed control and may assist in development of herbicide resistance.

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

- The compatibility of Sharda Halosulfuron 750 WDG with other products depends on the formulations of the respective products as well as the quality of the spray water to be used.
- As formulations change from time to time it is recommended that a physical compatibility test be done prior to the tank mixture being made.
- Do not use Sharda Halosulfuron 750 WDG in conjunction with organophosphate insecticides.

**USE RESTRICTIONS:**

- The following withholding periods must be observed prior to planting follow-up crops after application of Sharda Halosulfuron 750 WDG:

Avocado, Citrus, Mangoes, Maize, Grain Sorghum & Wheat:	1 month
Dry beans:	3 months
Potatoes:	6 months
Sunflowers:	13 months

- To avoid potential damage to follow-up crops, the waiting periods indicated above must be adhered to following application of Sharda Halosulfuron 750 WDG. A test planting is recommended in all cases.
- The residual action of Sharda Halosulfuron 750 WDG in the soil is influenced by soil moisture and therefore the amount of rainfall and distribution thereof is important. For this reason, the withholding periods above are only valid if normal rainfall amount and distribution is experienced for the season, from application of Sharda Halosulfuron 750 WDG to harvest. Withholding periods

should be extended where insufficient rainfall or abnormal distribution thereof is experienced. A test planting is recommended in all cases.

- Do not use Sharda Halosulfuron 750 WDG on experimental or newly released cultivars/varieties without first consulting your supplier or the seed company concerned.
- Soils with a low pH value will cause Sharda Halosulfuron 750 WDG to break down more quickly, whereas soils with pH values above 6,5 or containing free lime will prevent the breakdown of Sharda Halosulfuron 750 WDG which can lead to a longer residual effect with possible consequences for follow-up crops.
- Prepare only sufficient spray mixture for immediate use. Unused spray mixture may not be kept overnight.
- Rain or irrigation within 6 hours of Sharda Halosulfuron 750 WDG application may result in reduced efficacy on emerged weeds.
- Do not use Sharda Halosulfuron 750 WDG in crop situations which are interplanted with any other crops.
- Do not apply to crops and weeds stressed by abnormal weather or growing conditions, drought, waterlogged soil, insect damage, nematode infections, diseases, nutritional deficiencies or crops under stress through prior use of other agrochemicals.
- Do not use Sharda Halosulfuron 750 WDG on crops which already show symptoms of soil borne diseases as the combination of disease and Sharda Halosulfuron 750 WDG application may result in stand loss.
- Do not use Sharda Halosulfuron 750 WDG in combination with organophosphate insecticides.
- Yellowing of the funnel leaves and slight stunting of grain sorghum and maize plants may occur if cool, wet weather conditions prevail for some time following application. Plants will normally outgrow these symptoms and yield should not be affected.
- *Cyperus rotundus* (purple nutsedge) in the dry conditions of the North West Province may not be effectively controlled by Sharda Halosulfuron 750 WDG.
- Do not apply Sharda Halosulfuron 750 WDG to any crop or situation not mentioned in this instruction leaflet.
- Only apply Sharda Halosulfuron 750 WDG using an accurate and safe application technique.
- If Sharda Halosulfuron 750 WDG is used in a tank mix with other recommended remedies, consideration should be given to the restrictions of those respective products.

**MIXING AND APPLICATION:****Mixing instructions**

- Pre-mix Halosulfuron 750 WDG as follows:
  - Do not handle water soluble bags with wet gloves.
  - Count the number of sachets required according to the number of hectares to be treated and the spray tank capacity.
  - Add the counted soluble bags into a bucket with water and mix, ensuring complete disintegration of the bags and complete dispersion of the contents.
- Half-fill the spray tank with suitable water.
- Only use water suitable for irrigation and avoid using water with high levels of chlorine. The efficacy of Halosulfuron 750 WDG may be influenced by the quality of the spray water. If the sum total of calcium and magnesium in the water exceeds 150 ppm, ammonium sulphate must be added at 500 g per 100 litres water.
- Adjust the water's pH to between 6,7 and 7,5 if necessary.
- Avoid using spray water with resistance lower than 300 ohms and electrical conductivity higher than 1,0 mS/cm.
- Pre-mix the required quantity of Halosulfuron 750 WDG in at least 10 litres of spray water as indicated above.
- Add the pre-mixture to the water through a sieve while agitating.
- Rinse the pre-mixing bucket with water into the spray tank followed by the addition of the recommended quantity of surfactant.
- Finally, add the partner remedy as appropriate.
- Fill the spray tank to the desired volume.
- Should tank mixtures with other agrochemicals be made, follow the respective manufacturers' label recommendations.
- Tank mixtures must be sprayed out immediately and not allowed to stand in the spray tank overnight.
- Spraying equipment must be thoroughly flushed out at the end of the spraying operation as described above.

**Application Methods:**

- Ensure that the equipment is correctly calibrated and is checked regularly during application to ensure even and accurate application.

**Ground Application:**

- Knapsack sprayers or tractor mounted boom sprayers may be used.
- A spray volume of 200 to 400 litres per hectare should be used for ground application and can be applied via solid- or hollow cone nozzles.
- Constant agitation throughout the spray operation is essential.
- Only clean water should be used.
- Prevent over dosing by avoiding overlapping of swaths and closing the nozzles while starting, slow movement, turning and stopping.

**APPLICATION RATES**

CROP:	DOSAGE RATE:	TIMING OF APPLICATION:
MAIZE, GRAIN SORGHUM	50 g/ha (1 sachet/ha) + Velocity Glifo (ammonium sulphate) 500ml/ha	Apply in 200 to 400 litres water per hectare. Best weed control will be obtained when application is made to weeds growing actively under stress-free environmental conditions.
Wheat	50 g/ha (1 sachet/ha) + Complement Super 100ml/ha	

- Apply Halosulfuron 750 WDG alone, or as a tank mixture 3 to 5 weeks after planting of the maize.
- Two applications of Halosulfuron 750 WDG may be necessary to achieve effective control of late germinating Nutsedge.
- To obtain best results, apply Halosulfuron 750 WDG on actively growing Nutsedge under moist conditions 3 to 5 weeks after planting, 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 suboptimal results.
- The optimal time of application is determined by the development stage of the Nutsedges. Broadleaf weeds, however, should not exceed the 4-leaf stage or 100 mm in height.
- If cultivation will be part of the normal practice, it must preferably be postponed until 2 to 7 days after application of Halosulfuron 750 WDG
- Weeds overshadowed by other weeds or the crop may not be controlled effectively due to insufficient coverage. This must be considered during the time of application.
- The degree and duration of weed control obtained will depend on weed size, growing conditions during and time after application, soil pH (H<sub>2</sub>O) and rainfall.

**WEEDS controlled :**

<i>Bidens pilosa</i>	Common blackjack
<i>Cleome monophylla</i>	Single leaved cleome
<i>Cyperus esculentus</i>	Yellow nutsedge
<i>Cyperus rotundus</i>	Purple nutsedge
<i>Galinsoga parviflora</i>	Gallant soldier
<i>Tagetes minuta</i>	Khaki weed