

Nikki WDG

South Africa Reg. No: L 10828 Act/Wet No. 36 of/van 1947



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 if swallowed | May be harmful in contact with skin | Causes mild skin irritation | Causes serious eye irritation
May be harmful if inhaled | Very toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS: Obtain special instruction before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing mist, vapours and spray | Use only outdoors or in a well-ventilated area | Avoid release into the environment.

Registration holder: Green Island Investments (Pty) Ltd.
Co. Reg. No.: 2013/043963/07
P.O. Box 1822, Heidelberg 1438, South Africa
Tel: 078 737 9236

24 HR EMERGENCY NUMBERS

Griffon Poison Information Centre: +27 82 446 8946
24 Hr Transport / Spill emergency no:
(Hazcall24) +27 86 044 4411 (Typhoon Plant Protection)

Distributed by: Typhoon Plant Protection (Pty) Ltd.
Co. Reg. No.: 1998/006156/07, C/O Farm Vlakfontein
Corner of the R23 Benoni Road & R550 Nigel Road
Brakpan District, Heidelberg 1438, Gauteng, South Africa
Tel: 078 737 9236

Net Volume:

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Expiry Date:
Batch No:
Date of Manufacture:
U.N. No. 3077

**Typhoon**
PLANT PROTECTION

READ LABEL IN DETAIL BEFORE OPENING THE CONTAINER. FOR FULL PARTICULARS, SEE ENCLOSED LEAFLET.
KEEP OUT OF REACH OF CHILDREN AND ANIMALS.



WITHHOLDING PERIODS:

- **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.**

WARNINGS:**HAZARD STATEMENTS:**

- May be harmful if swallowed.
 - May be harmful in contact with skin.
 - Causes mild skin irritation.
 - Causes serious eye irritation.
 - May be harmful if inhaled.
 - May cause damage to organs (respiratory irritation) through single exposure.
 - Very toxic to aquatic life.
 - Very toxic to aquatic life with long lasting effects
- 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. The action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, incompatibility 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:

PRECAUTIONARY STATEMENTS:

- Wash hands and face thoroughly after handling.
- Wash hands thoroughly after handling. **Do not** touch eyes.
- **Do not** eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Avoid release into the environment.
- Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
- In case of inadequate ventilation wear respiratory protection.
- **IF SWALLOWED:** Immediately call a **POISON CENTER**.
- **IF SWALLOWED:** Get emergency medical help immediately.
- **IF ON SKIN:** Wash with plenty of water and non-abrasive soap.
- **IF INHALED:** Remove person to fresh air and keep comfortable for breathing.
- **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a **POISON CENTER**.
- Collect spillage.
- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.
- Dispose of content/container to suitable landfill in accordance with local regulations.

- **Cleaning of Application Equipment:** Special attention and care must be taken with cleaning of all equipment used in the mixing and application of **NIKKI 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 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.

Related ingredients:

Substance name (IUPAC)	CAS - No.	Concentration % By weight
	EC - No.	
Nicosulfuron	111991-09-4	75%
Light calcium carbonate	471-34-1	1-15%

FIRST AID TREATMENT:

Inhalation: Remove source of contamination or move patient to fresh air. Keep patient under observation and obtain medical attention if necessary.

Skin contact: If irritation occurs, remove contaminated clothing, shoes and leather goods. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap.

If irritation persists, obtain medical assistance.

Eye contact: Immediately flush the contaminated eyes with gently flowing clean water for 20 minutes, holding the eyelid(s) open until no evidence of chemical remains. If irritation persists, obtain medical assistance.

Ingestion: Have patient rinse mouth thoroughly with water. **Do not induce vomiting.**

In severe cases, obtain medical advice immediately.

RESISTANCE WARNING:

NIKKI WDG is a **Group code 2 herbicide**. Any weed population may contain individuals naturally resistant to **NIKKI 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 **NIKKI 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.

Use restrictions

- The use of **NIKKI 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 **NIKKI WDG** will be used.
- **Do not** apply **NIKKI WDG** in combination with organophosphate insecticides, e.g. **Triazophos** within 14 days of such application.
- **Do not** use **NIKKI 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 **NIKKI WDG** residues remaining in the soil depend on the rate applied, soil pH, organic matter content, time lapsed, climatic and weather conditions since the **NIKKI 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), Soybeans, Dry beans & Sunflowers	8	Cereals (Wheat, Barley, Oats), Soybeans, Dry beans & Sunflowers	12
Sorghum and all other crops	12	Sorghum and all other crops	24

- **NIKKI 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 **NIKKI 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:

- **NIKKI WDG** is compatible with **ATRASIE 500 SC** (L10074).
- When **NIKKI WDG** is used in conjunction with any other agricultural remedy, adhered to all **WARNINGS**, **PRECAUTIONS** and **DIRECTIONS FOR USE** mentioned on that label.

General Application Conditions:

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

Mixing instructions:

- Pre-mix the required amount of **NIKKI 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

CROP	SOIL TYPE	DOSAGE / HA	REMARKS
Maize	All soil types	60 g NIKKI WDG PLUS an adjuvant (wetter/ spreader/penetrant) at the label recommended rate)	WARNING Refer to antagonism restriction with organophosphate insecticides “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. Application must be directed in-between rows when possible. • 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 NIKKI WDG may lead to re-growth of rhizomes.

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

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>Setaria pallide-fusca</i>	Red bristle grass	Up to 4 leaves
<i>Rottboellia cochinchinensis</i>	Guinea fowl 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
<i>Sorghum bicolor subsp. arundinaceum</i>	Common wild sorghum	Up to 7 leaves