

Arrogant

Reg. No. L 11863 Act/Wet No. 36 of/van 1947



A water-dispersible granule herbicide intended for use in sugarcane cultivation, suitable for both pre-emergence and post-emergence applications. It targets designated broadleaf and grass weed species and provides suppression of yellow nutsedge (*Cyperus esculentus*).

ACTIVE INGREDIENT

HRAC HERBICIDE GROUP CODE

5

Amicarbazone (triazolinone) 700 g/kg



WARNING

HAZARD STATEMENTS:

- May be harmful if swallowed.
- May be harmful if inhaled

PRECAUTIONARY STATEMENTS:

- Wear protective gloves / protective clothing / eye protection / face protection.

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

Poison Information Helpline: 0861 555 777

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

Contents: **1.5 kg**

Expiry Date:

Batch No:

Date of Manufacture:

U.N. No. 3077



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



WARNINGS:

HAZARD STATEMENTS:

- H302: May be harmful if swallowed.
- H332: May be harmful if inhaled.

- Handle with care.
- Harmful when swallowed.
- Avoid contact with eyes since product may cause eye irritation.
- Store in a cool place away from food and feeds, fertilizers and other chemicals.
- 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 weed 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:

- Wear protective gloves/protective clothing/eye protection/face protection.
- **Do not** inhale dust or spray mist.
- Wear protective clothing when mixing product.
- Wash contaminated clothing daily.
- Wash yourself after use or accidental skin contact.
- In case of eye contact, rinse immediately with running water.
- **Do not** eat, drink or smoke when mixing or applying, or before washing hands and face and changing clothes.
- Avoid spray drift onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean applicator thoroughly after use and dispose of wash water where it will not contaminate crops, grazing, rivers or dams.
- Destroy empty liquid containers by perforation and flattening. **Do not** use empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

RELEVANT SUBSTANCES:

Name	CAS number	Conc. (%)
Amicarbazone	129909-90-6	70.5%
Ingredients determined to be Non-Hazardous		

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 if symptoms persist consult a doctor.
- **Inhalation:** If vapours or mists have been inhaled, move victim to fresh air and remove source of contamination if safe to do so. Administer artificial respiration if patient is not breathing OR if breathing is laboured supply oxygen. Only qualified personnel should administer oxygen. **Seek medical attention.**
- **Skin:** Remove contaminated clothing and shoes. Wash skin gently and thoroughly with cold water and non-abrasive soap. Obtain medical attention if irritation occurs.
- **Eyes:** Flush eyes with clean water. Lift eyelids to facilitate irrigation. If present, remove contact lenses and continue rinsing. Seek medical attention if irritation develops.
- **Ingestion:** Rinse mouth thoroughly with water if person is alert. Have person drink plenty of water if able to swallow. Never give anything by mouth to an unconscious person. **Do not** induce vomiting, unless instructed to do so by a physician. If vomiting occurs keep head lower than hips to prevent aspiration. Obtain medical attention of the affected person is not feeling well.

Antidote: No specific antidote is known; apply symptomatic therapy. If the amount of chemical is judged to be less than a lethal dose, observe the patient and treat symptomatically. If gastric lavage is considered necessary, prevent aspiration of gastric material. Consider administration of active charcoal and a laxative.

RESISTANCE WARNING

For resistance management, **ARROGANT is a group code 5 herbicide**. Any weed population may contain individual weeds naturally resistant to **ARROGANT and other group code 5 herbicides**. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **ARROGANT or any other group code 5 herbicide**.

In order to delay herbicide resistance:

- Avoid the exclusive and repeated use of herbicides from the same herbicide group code. Alternate or tank mix with products from different herbicide group codes.
- Integrate chemical and cultural control methods into weed control programmes.

For more information on resistance management, contact the registration holder.

DIRECTIONS FOR USE: Use only as directed.

ARROGANT is a selective herbicide suitable for both pre-emergence and post-emergence use in sugarcane. It targets key annual broadleaf and grass weeds and provides suppression of yellow nutsedge (*Cyperus esculentus*). For optimal efficacy, **ARROGANT** should be applied in tank mixtures with registered complementary herbicides. Pre-emergence treatments are advised shortly after planting or harvesting, prior to weed germination and when the first sugarcane leaves have reached approximately 10 cm in height. Certain **ARROGANT** combinations are approved for use under both dry and moist soil conditions (refer to Treatment Instructions for specific guidance).**

COMPATIBILITY

ARROGANT is compatible with **Acetochlor 900 EC** (L10102), **Paraquat 200 SL** (L10180). **Do not** mix with any other agricultural chemicals.

USE RESTRICTIONS

- **Do not** plant any other crops except sugarcane for 12 months after a **ARROGANT** application.
- If soil pH is > 7.4 the use of **ARROGANT** is not recommended.

Warning – Soil Ameliorants

ARROGANT should not be used on cane fields that have been treated with LIME, GYPSUM, FILTER PRESS, CHICKEN LITTER or any other product that may raise soil pH in the last 12 months.

- **Do not** use **ARROGANT** on coarse-textured sandy soils.
- Avoid soils with less than 0.5 % organic matter, greater than 60 % sand, and a water table that is less than 2 m below the surface.
- Avoid double application in one season and overlapping spray swaths.
- Although **ARROGANT** has been tested on the most important sugarcane cultivars, more herbicide sensitive cultivars could become available in the future.
- It is therefore recommended that a small scale test be conducted in the case of newly released cultivars before large scale applications.

MIXING INSTRUCTIONS

- Thoroughly clean the sprayer by flushing the system with water containing detergent before spraying. Half fill the spray tank with clean water.
- Pre-mix the required amount of **ARROGANT** in water (ratio of 1,5 kg **ARROGANT** in 8 ℓ water) and allow to stand for three 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, before pouring into the tank.
- Smaller amounts of **ARROGANT** for individual knapsack spraying should also be pre-mixed in water at the same ratio before use.
- Add the other registered herbicides as indicated in the application table to the tank.
- Then fill the tank to the required 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 in the spray tank.

GROUND APPLICATION

- **ARROGANT** can be applied with conventional ground equipment (tractor mounted sprayers and knapsack sprayers).
- A uniform and even distribution of the spray material over the target area is essential for effective **ARROGANT** application.
- Flat fan nozzles are recommended for full cover spraying with tractor mounted rigs, and flood jet nozzles for tractor mounted drop arms and knapsacks.
- Full cover application should only be done before cane has germinated.
- Ensure that application equipment is correctly calibrated and that only clean water is used. Apply to a clod-free surface.
- Thoroughly flush out spraying equipment at the end of the spraying operation.

Pre-Emergence Weed Control

ARROGANT must be applied in combination with **Acetochlor 900 EC**.

This mixture is intended for use prior to weed emergence, targeting early-season control.

Post-Emergence Weed Control

ARROGANT must be tank-mixed with one of the following registered herbicides:

- **MCPA 700 WSG**
- **Ametryn 750 WDG**
- **MCPA 700 WSG + Ametryn 750 WDG** (combined treatment)

Important Usage Note

ARROGANT must not be applied as a standalone product. It is formulated for use exclusively in combination with approved partner herbicides to ensure effective weed control.

1. PRE-EMERGE ARROGANT TREATMENTS – SUGARCANE

Soil clay %	Dosage rate/ha	Remarks
Ratoons Only > 10%	2,0 kg ARROGANT plus 3 l Acetochlor 900 EC	Apply uniformly to moist soil surface soon after planting or harvesting. Better <i>Cyperus esculentus</i> suppression depends on early application and follow-up moisture.
10-15%	1,5 kg ARROGANT plus 0,5 kg Hexazinone 750 DF	Apply uniformly to a dry or moist soil surface soon after harvesting. For best suppression of sedges such as <i>Cyperus esculentus</i> and/or control of grasses such as <i>Panicum maximum</i> , use highest applicable Hexazinone rate permitted. NB: Please see Hexazinone label for rate recommendations per time of season.
16-35%	1,5 kg ARROGANT plus 0,8 kg Hexazinone 750 DF	
>35%	1,5 kg ARROGANT plus 1 kg Hexazinone 750 DF	

NOTE: **Paraquat 200 SL** at 1 l/ha can be added to pre-emerge treatments if application is delayed and small weeds are present.

Weeds controlled by pre-emerge ARROGANT PLUS ACETOCHLOR 900 EC OR HEXAZINONE 750 DF treatments

Botanical name	Common name	Comments
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>	Spanish blackjack	
<i>Commelina benghalensis</i>	Bengal wandering Jew	
<i>Convolvulus arvensis</i>	Field bindweed	
<i>Conyza floribunda</i>	Tall fleabane	
<i>Ipomoea plebeia</i>	-	Creeper species that germinate from seed are well controlled by ARROGANT treatments
<i>Ipomoea 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>	Heartload sida	
<i>Solanum nigrum</i>	Nightshade	
BROADLEAF WEEDS		
<i>Digitaria sanguinalis</i>	Crab fingergrass	
<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	Suppression only

Soil clay %	Dosage rate/ha	Remarks
Ratoons only 0 – 20 %	Not recommended	Refer NOTES (Sugarcane) below
20 – 24%	1 kg ARROGANT plus 3.50 l Pendimethalin 500 EC	
>25%	1,5 kg ARROGANT plus 3.50 l Pendimethalin 500 EC	

- NOTES:** 1. Apply **ARROGANT** plus **Pendimethalin 500 EC** pre-emergence to weeds.
2. Pre-emergence applications should be carried out soon after harvesting before the weeds have germinated and the first cane leaves are 10 cm high.
3. Water incorporation using sprinkler irrigation should be completed by applying 20-50 mm water.
4. Refer to the **Pendimethalin 500 EC** label for instructions on correct handling and application.

Weeds controlled by pre-emerge **ARROGANT** and **Pendimethalin 500 EC** applications

Botanical name	Common name	Comments
BROADLEAF WEEDS		
<i>Ageratum conyzoides</i>	Invading Ageratum	
<i>Amaranthus hybridus</i>	Common pigweed	
<i>Amaranthus thunbergii</i>	Red pigweed	
<i>Amaranthus spinosus</i> ***	Thorny pigweed	*** Control of this weed is erratic
<i>Bidens pilosa</i>	Spanish blackjack	
<i>Chenopodium album</i>	White goosefoot	
<i>Ciclospermum leptophyllum</i>	Wild celery	
<i>Commelina benghalensis</i>	Bengal wandering Jew	
<i>Conyza floribunda</i>	Tall fleabane	
<i>Emex australis</i>	Spiny emex	
<i>Portulaca oleracea</i>	Common purslane	
<i>Richardia brasiliensis</i>	Tropical Richardia	
<i>Senecio madagascariensis</i>	Tall Senecio/Ragwort	
<i>Solanum nigrum</i>	Nightshade	

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Weeds controlled by pre-emerge ARROGANT and Pendimethalin 500 EC applications

Botanical name	Common name	Comments
GRASS WEEDS		
<i>Brachiara brizantha</i>	bread signal grass	
<i>Chloris virgata</i>	feather-top chloris	
<i>Chloris pycnothrix</i>	spiderweb chloris	
<i>Digitaria sanguinalis</i>	crab-finger grass	
<i>Echinochloa colona</i>	marsh grass	
<i>Echinochloa crus-galli</i>	barnyard grass	
<i>Eleusine indica</i>	goosegrass	
<i>Eragrostis spp.</i>	Eragrostis	
<i>Panicum schinzii</i>	sweet buffalo grass	
<i>Panicum maximum</i>	Guinea grass	
<i>Rottboellia cochinchinensis</i>	Guinea-fowl grass	
<i>Setaria verticillata</i>	bur bristlegrass	
<i>Tragus racemosus</i>	lorye carrotseed grass	
<i>Urochloa panicoides</i>	Garden urochloa	
SEDGES		
<i>Cyperus esculentus</i>	Yellow nutsedge	Suppression only

2. POST-EMERGE ARROGANT TREATMENTS - SUGARCANE

Soil clay %	Dosage rate/ha	Remarks
Ratoons Only > 10%	1,5 kg ARROGANT plus 2,0 kg MCPA 700 WSG plus 0.2 % ASTRANT	Use this treatment where <i>Cyperus esculentus</i> and broadleaf weed species are predominant. <i>Cyperus esculentus</i> should be beyond the 20 % flowered stage at spraying for optimum control. This treatment is relatively safe on cane but every attempt must be made to avoid unnecessary crop leaf contact.
> 10%	1,5 kg ARROGANT plus 2,67 kg Ametryn 750 WDG plus 0.2 % ASTRANT	Use this treatment where grass seedlings need to be controlled. Grasses should not be beyond the tillered stage. <i>Cyperus esculentus</i> and the listed broadleaf weed species are well controlled by this treatment. Avoid leaf contact on the crop.
> 10%	1,5 kg ARROGANT plus 1,14kg MCPA 700 WSG plus 1,33 kg Ametryn 750 WDG plus 0.2 % ASTRANT	Use this treatment where there is a mixture of sedges, broadleaf weeds and grasses. Avoid leaf contact on the crop.

Weeds controlled by post-emerge ARROGANT treatments

Botanical name	Common name	Comments
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>	Tall fleabane	
<i>Gnaphalium pensylvanicum</i>	Cudweed	
<i>Helichrysum ruderales</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	
GRASS WEEDS		
<i>Panicum maximum</i>	Common buffalo grass	Pre-tillering stage (ARROGANT plus Ametryn 750 WDG plus ASTRANT)
SEDGES		
<i>Cyperus esculentus</i>	Yellow nutsedge	Apply treatments at 20% flowering stage

The **ARROGANT** tank mixes 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 **ARROGANT** treatments.
2. Better weed control will result where **ARROGANT** treatments are applied to soil that is free of extraneous matter (e.g. thick trash blanket).
3. **ARROGANT** 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 sugar cane leaves.

Astrant (L11608), **Paraquat 200 SL** (L10180), **Acetochlor 900 EC** (L10102). are registered products of Green Island Investment (Pty) Ltd.

