

Doringdraad

Reg. No.: L 11675 Act/Wet No. 36 of/van 1947



A selective water-dispersible granular herbicide for the control of weeds as indicated in crops as listed.

ACTIVE INGREDIENT

HRAC HERBICIDE GROUP CODE **B2**

Diclosulam (triazolopyrimidine sulfonanilide) 840 g/kg



WARNING

HAZARD STATEMENTS:

- Very toxic to aquatic life with long-lasting effects.

PRECAUTIONARY STATEMENTS:

- Avoid release to the environment.
- Collect spillage.
- Dispose of contents / container in accordance with local / regional / national / international regulations.

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 Mass/Volume:

kg

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.



WARNINGS:

HAZARD STATEMENTS:

- Very toxic to aquatic life.
- Very toxic to aquatic life with long lasting effects.

- Handle with care.
- Harmful if swallowed.
- May irritate the eyes.
- Store away from food and feeds.
- Store in a cool place.
- Keep out of reach of children, uninformed persons and animals.
- **RE-ENTRY INTERVAL:** 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 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:

- Avoid release to the environment.
- Collect spillage.
- Dispose of contents / container in accordance with local / regional / national / international regulations.

- **Do not** inhale the spray mist.
- Avoid skin and eye contact.
- Wear rubber gloves and face shield when handling the concentrate.
- Wash contaminated clothing after use.
- Wash with soap and water after use.
- **Do not** eat, drink or smoke whilst mixing or applying the product or before washing hands and face.
- Avoid drift of spray onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean all mixing and application equipment after use and before using with other products.
- Rinse and flush application equipment thoroughly with water.
- Rinse a second time using a 1% solution of household ammonia.
- Allow the solution to stand in the spray tank for several hours but preferably overnight.
- Rinse at least twice with clean water.

- **Do not** use the applicator for applying products other than herbicides.
- Dispose of wash water where it will not contaminate food, crops, grazing, rivers, dams or boreholes.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Rinse the empty container three times with a volume of clean water equal to a minimum of 10 % of the container. Add the rinsings to the content of the spray tank.
- Destroy empty container and never use it for any other purpose.

RELATED INGREDIENTS:

Chemical name	CAS No.	Concentration (% w/w)
Diclosulam	145701-21-9	> 84%
Koalalin	1332-58-7	>1 -10%

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:

For resistance management, **DORINGDRAAD** is a **group code B2 herbicide**. Any weed population may contain individuals naturally resistant to **DORINGDRAAD** and other **group code B2 herbicides**. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **DORINGDRAAD** or any other **group code B2 herbicide**.

To delay herbicide resistance:

- Avoid exclusive repeated use of herbicides from the same herbicide group code.
Alternate or tank mix with registered products from different herbicide group codes.
- Integrate other control methods (chemical, cultural, biological) into weed control programmes.
- Monitor each land on a seasonal basis to identify the development of resistance early.

For specific information on resistance management contact the registration holder of this product.

Green Island Investments (Pty) Ltd. cannot accept liability for any losses that may result from the failure of **DORINGDRAAD** to control resistant weeds.

RESTRICTIONS FOR USE
MAXIMUM RESIDUE LEVELS (MRL'S)

LOCAL MAXIMUM RESIDUE LEVELS (MRL's) WILL NOT BE EXCEEDED IF TREATMENTS ARE APPLIED AS INSTRUCTED HEREIN. HOWEVER, IT IS IMPORTANT TO NOTE THAT IMPORT TOLERANCES OF OTHER COUNTRIES MIGHT POSSIBLY BE EXCEEDED. IF THE TREATED CROP WILL BE EXPORTED, FIRST CONSULT THE RELEVANT IMPORTER OR EXPORTING BODY REGARDING THE USE OF THIS PRODUCT, MRL's AND RECOMMENDED WITHHOLDING PERIODS.

Minimum pre-plant intervals:

After a **DORINGDRAAD** application, the following minimum pre-plant intervals* for follow-up crops must be adhered to, in order to avoid injury to follow-up crops:

(* pre-plant interval = time period between the (last) application of **DORINGDRAAD** and the anticipated date of planting of a follow-up crop)

Follow up crop pre-plant interval (Months)					
Application treatment: DORINGDRAAD Plus:	Soybeans	Ground nuts	Maize, Dry Beans, Grain Sorghum, Potatoes, Sunflowers	Wheat, Barley, Oats	All Other crops
Alachlor 384 EC	0	0	10	5	24
Acetochlor 900 EC	3	0	10	5	24

IMPORTANT NOTES

Above-mentioned waiting periods are valid only if:

- only a single **DORINGDRAAD** application was applied per field per season.
- the recommended dosage rate of **DORINGDRAAD** in combination with complementary herbicide(s) was applied with regard to the soil (the recommended label rate must be regarded as the maximum rate of **DORINGDRAAD** that can be applied per season).
- normal or above average rainfall and/or irrigation occurred during and following the season in which the application was made.
- this rain and/or irrigation in the period after application of **DORINGDRAAD** and prior to planting of the follow crop was well-distributed and totalled more than 350 mm.
- Always deep plough the field before a follow crop is planted.
- **Do not use DORINGDRAAD:**
 - on poorly drained soils or soils with a compaction layer. Water logging in the presence of herbicides could cause stand reduction and/or stunted growth, which may lead to yield reduction.
 - on soils with a pH (H₂O) of 7 or more.
 - under conditions of heavy rain and/or irrigation on sandy or gravel soils.
 - under abnormally cold and / or abnormally wet conditions.

Planting depth:

The planting of crop seed other than the optimum as recommended by the ARC Grain Crops Institute may result in crop damage. Recommended planting depths are 50 to 75 mm for groundnuts and 20 to 60 mm for soybeans (depending on seedbed and soil conditions).

DORINGDRAAD may not be applied through any type of irrigation system.

- Flood irrigation may result in reduced weed control.
- **Do not** apply **DORINGDRAAD** tank-mixtures to inbred parent plants of crop cultivars as well as experimental or newly released cultivars, without first consulting the manufacturer, distributor, or seed supplier in this regard.
- **DORINGDRAAD** in a mixture with **Alachlor 384 EC** or **Acetochlor 900 EC** (L10102) must be applied prior to crop emergence.
- **Do not** apply **DORINGDRAAD** tank mixtures post-emergence to groundnuts or soybeans.

Compatibility:

- **DORINGDRAAD** is compatible with **Alachlor 384 EC** and **Acetochlor 900 EC**.
- The compatibility of **DORINGDRAAD** in a tank mixture with other products is influenced by the formulations of these products, as well as quality of the spray water. It is recommended that a physical compatibility test always be performed prior to application as the formulation of other products can be altered, and the quality of water can vary from area to area.
- When tank mixing other herbicides in combination with **DORINGDRAAD** the warnings, precautions, use restrictions and directions for use on the labels of the herbicides concerned, must be fully adhered to.

Mixing Instructions:

Notes regarding the packaging of **DORINGDRAAD**:

- **DORINGDRAAD** is provided in **water soluble** sachets.
Each single sachet contains 10 g of **DORINGDRAAD**.
- Ten sachets are packed together in a zip-lock foil overpack to give 100 g **DORINGDRAAD** per foil overpack.

Important Note: these foil packs only act as containers for the 10 g water soluble sachets and will NOT dissolve in water.

- 10 x 100 g foil overpacks are packed together in a 1 kg container.
- **Do not** remove water-soluble sachets from overpack except for immediate use.
- **Do not handle the soluble sachets excessively or allow to contact water prior to use as this may cause rupturing. Keep unused sachets in the zippered foil overpack.**

APPLICATION INSTRUCTIONS

- **Ground application:**
- It is important that tank mixtures are applied with accurately calibrated spray equipment that is in good working order. **DORINGDRAAD** can be applied with standard medium or high volume spraying equipment, equipped with a good agitation system that can provide even distribution and sufficient coverage.
- It is recommended to apply at a spray volume of 200 litres per hectare, using flat fan nozzles to obtain best results.
- Ensure agitation of spray mixture during application.
- Prepare a fine, even and firm seedbed, free of weeds, trash and clods.

- Apply **DORINGDRAAD** tank mixtures preferably at planting or immediately after planting, but not later than three (3) three days after planting. Use 200 litres spray mixture per hectare, for overall ground application, and 30 to 40 litres per hectare for aerial application.
- **DORINGDRAAD** can also be shallowly incorporated early in the season, to improve reliability of weed control.
- **10 to 20 mm rain within 7 to 10 days after application is necessary for good results.**
- Under dry conditions, weed seedlings may emerge. These are usually stunted and can be controlled with a shallow cultivation, which also mixes the herbicide with the top 10 to 20 mm of soil.
- If soil crusting becomes a problem, rotary harrow in the same direction that the rows are planted, to assist crop germination.
- Harrowing after application may reduce weed control, if untreated soil is thrown into deep planter furrows.
- Ensure that sufficient fertilizer is placed near the seed at planting, to promote vigorous seedling growth.

APPLICATION RATES:

A. GROUNDNUTS (Pre-emergence):

Clay %	DORINGDRAAD (g/ha)	PLUS ACETOCHLOR 900 EC (ml /ha)
0 – 10	10	750
11 - 20	15	1000
21 - 30	20	1000 - 1500

B. SOYBEANS (Pre-emergence):

Clay %	DORINGDRAAD (g/ha)	PLUS ALACHLOR 384 EC (l /ha)	OR PLUS ALACHLOR 480 CS (l /ha)
0 - 10	10	4,0	3,2
11 - 20	15	4,0 - 4,5	3,2 – 3,6
21 - 30	20	4,5 - 5,0	3,6 – 4,0
31 - 40	25	5,0	4,0
> 40	30	5,0	4,0

WEEDS CONTROLLED

The following weed species in **LIST A** are normally controlled by pre-emergence applications of **DORINGDRAAD** in a mixture with **Alachlor 384 EC** or **Acetochlor 900 EC** at the dosage rates indicated below:

LIST A:

WEEDS CONTROLLED (Botanical Name and Common Name)			
BROADLEAF WEEDS CONTROLLED:			
<i>Amaranthus hybridus</i>	common pigweed	<i>Cleome monophylla</i>	spindlepod
<i>Chenopodium album</i>	white goosefoot	<i>Galinsoga parviflora</i>	gallant soldier
<i>Chenopodium carinatum</i>	green goosefoot	<i>Schkuria pinnata</i>	dwarf marigold
<i>Cleome gynandra</i>	spider wisp	<i>Tribulus terrestris</i>	dubbeltjie

ANNUAL GRASSES CONTROLLED: (Botanical Name and Common Name)			
<i>Brachiaria eruciformis</i>	sweet signal grass	<i>Panicum maximum</i>	common buffalo grass
<i>Chloris virgata</i>	feathertop Chloris	<i>Setaria pallide-fusca</i>	red bristle grass
<i>Digitaria sanguinalis</i>	crab finger grass	<i>Setaria verticillata</i>	sticky bristle grass
<i>Echinochloa crus-galli</i>	barnyard grass	<i>Tragus racemosus</i>	large carrotseed grass
<i>Eleusine indica</i>	goose grass	<i>Urochloa panicoides</i>	herringbone grass
<i>Panicum schinzii</i>	sweet buffalo grass		

Control of the following weeds in **LIST B** is variable following pre-emergence applications of **DORINGDRAAD** in a mixture with **Alachlor 384 EC** or **Acetochlor 900 EC** at the dosage rates indicated below:

LIST B:

ANNUAL GRASSES CONTROLLED: (Botanical Name and Common Name)			
<i>Commelina benghalensis</i>	Bengal wandering jew	<i>Hibiscus trionum</i>	Bladderweed
<i>Crotalaria sphaerocarpa</i>	mealie Crotalaria	<i>Ipomoea purpurea</i>	Common morning glory
<i>Cyperus esculentus</i>	yellow nutsedge	<i>Portulaca oleraceae</i>	purslane
<i>Datura ferox</i>	large thorn apple	<i>Tagetes minuta</i>	khaki weed
<i>Datura stramonium</i>	common thorn apple	<i>Xanthium strumarium</i>	cocklebur
<i>Gisekia pharnacoides</i>	Gisekia		

NOTE: DORINGDRAAD mixtures control certain annual grasses and numerous broadleaf weeds as detailed in **Lists A and B above**. Other annual weeds that were not present during the development trials with the products may also be controlled to a certain degree. The registration holder does not accept any responsibility for unlisted weeds.

The following product mentioned in this label:

- **Acetochlor 900 EC** (L 10102) is registered with **Green Island Investments (Pty) Ltd.**