

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

Herbicide



# 2,4-DB 400 SL

Reg. No. L 10859 Act No. 36 of 1947

3: 18/01/2023 – July 2023

An aqueous concentrate post-emergence herbicide for the selective control of certain broadleaf weeds in lucerne, in pastures of annual medics, clover or grasses and in undersown lucerne in grain crops.

GROUP

4

HERBICIDE

## ACTIVE INGREDIENT

2,4-DB phenoxy compound (sodium salt) 400 g/l



**DANGER**

### Hazard Statements:

May be harmful if swallowed.  
Causes mild skin irritation.  
Causes serious eye damage.  
May damage fertility or the unborn child.  
Toxic to aquatic life with long lasting effects.

### Precautionary Statements:

Avoid release to the environment.  
Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.



**villa**

UN Number: 3082

Registration holder: VILLA CROP PROTECTION (PTY) LTD.  
Co. Reg. No. 1983/008184/07  
PO Box 10413, Aston Manor, 1630  
Tel. (011) 396 2233  
Website: [www.villacrop.co.za](http://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:

**2,4-DB 400 SL**

Reg. No. L 10859 Act No. 36 of 1947  
 HRAC HERBICIDE GROUP CODE: 4

**ACTIVE INGREDIENT:**

2,4-DB phenoxy compound (sodium salt) .....400 g/l

Registration holder:

**VILLA CROP PROTECTION (PTY) LTD.**

Co. Reg. No. 1992/002474/07

PO Box 10413, ASTON MANOR, 1630,

Tel. (011) 396 2233

**WARNINGS****Hazard statements:**

May be harmful if swallowed.
Causes mild skin irritation.
Causes serious eye damage.
May damage fertility or the unborn child.
Toxic to aquatic life with long lasting effects.

- **Withholding period: Allow 30 days between last application and grazing of Lucerne.**
- Handle with care.
- Store in a cool place, away from food, feeds, and other agricultural remedies.
- Keep out of reach of children, uninformed persons and animals.

**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 weeds to the remedy concerned, as well as by the method, time and accuracy of application. The registration holder further 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 event of any uncertainty.**

**PRECAUTIONS****Precautionary statements:**

Obtain, read and follow all safety instructions before use.
Wash hands thoroughly after handling. Do not touch eyes.
Avoid release into the environment.
Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
IF SWALLOWED: Get medical help.
IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.
IF exposed or concerned, get medical advice.
If skin irritation occurs: get medical help.
Collect spillage.
Store locked up
Dispose of contents/container to suitable landfill in accordance with local regulations.

- Do not breathe spray mist.
- Wash contaminated clothing daily. Wash with soap and water after use.
- Do not eat, drink or smoke whilst applying, mixing, before washing hands and face and changing clothes.
- Prevent contamination of food, feeds, drinking water and eating utensils.
- Prevent spray drift onto other crops, grazing, rivers, dams and other areas not under treatment.

- Clean applicator with a house-hold ammonia solution (1 %) before using with other materials. Let solution stand for several hours, preferably over-night. Rinse at least twice. This applicator should not be used for applying chemicals other than herbicides.
- Dispose of wash water where it will not contaminate food, grazing, rivers or dams.
- **TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS:** Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three (3) times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler ([www.croplife.co.za](http://www.croplife.co.za)). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.
- Prevent contamination of food, feeds, drinking water and eating utensils.

<b>Relevant hazardous components</b>	
<b>2,4 DB sodium (98 %)</b>	400g/ℓ
Tritylphenol Ethoxylated	< 50 g/ℓ
N-Methyl-2-pyrrolidone	< 50 g/ℓ

### **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.

- **Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs. Remove person to fresh air and keep comfortable for breathing.
- **Skin:** Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. **Get medical help** if irritation occurs.
- **Eyes:** Flush eyes with clean water for at least 15 to 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after five (5) minutes and continue rinsing. **Get medical help immediately.**
- **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.

### **NOTE TO PHYSICIAN**

This product contains a phenoxy herbicide. There is no antidote available. Treat symptomatically and supportively. Gastric lavage with activated charcoal is advised. Follow up with 0.9 % saline cathartic. Avoid oily laxatives.

### **RESISTANCE WARNING**

For resistance management, **2,4-DB 400 SL** is a group code 4 herbicide. Any weed population may contain individuals naturally resistant to **2,4-DB 400 SL** and other Group Code 4 herbicides. These resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **2,4-DB 400 SL** or any other group code 4 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.

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 **2,4-DB 400 SL** not controlling resistant weeds. Do not apply **2,4-DB 400 SL** alone in situations where weed resistance has been confirmed. Sub-standard application of **2,4-DB 400 SL** will lead to inferior weed control and may assist in development of herbicide resistance. It is of the utmost importance to inspect treated areas at regular intervals in order to identify the occurrence of herbicide-resistant weeds timeously.

A local farm strategy for preventing and managing resistance should be adopted, Guidelines have been produced by the Herbicide Resistance Action Group (HRAC) and copies are available from HRAC, your distributor or agents, independent crop advisor.

**Mode of action:** 2,4-D is an “auxin mimic” or synthetic auxin. This type of herbicide kills the target weed by mimicking the plant growth hormone auxin (indole acetic acid), and when administered at effective doses, causes uncontrolled and disorganized plant growth that leads to plant death.

### **USE RESTRICTIONS**

- **Do not apply 2,4-DB 400 SL on groundnuts.**
- To prevent damage, do not permit drift, vapour or spray mist to come into contact with sensitive broadleaf crops, fruit or ornamentals as well as grain varieties in a susceptible growth stage.
- Apply the product strictly in accordance with the application directions. May be applied by tractor mounted and knapsack sprayers on lands in the vicinity of susceptible crops, provided that strict precautions are taken to avoid spray drift. Consult the supplier in case of any uncertainty in this regard.
- Application during dry soil conditions is not recommended.

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

#### **Compatibility:**

- Do not mix 2,4-DB 400 SL with wetting agents or other herbicides.

#### **Ground application:**

- Apply by means of a calibrated tractor-mounted boom sprayer or knapsack sprayer, in good working order, equipped with flat fan nozzles, which delivers at least 200 litres spray mixture per hectare.
- Spray when the crop and weeds are growing vigorously and at the stage recommended.
- Avoid fine droplet size - use low pressure flat fan nozzles of 80° or 110° or equivalent anti-drift type, and do not exceed spray pressure of 200 kPa.
- Do not exceed spray height of 50 to 75 cm above target and ground speed of 10 km per hour. Adjust the height of the spray boom above the crop, to ensure good even coverage of all weeds.
- Do not apply if wind velocity exceeds 15 km per hour.

### **APPLICATION INSTRUCTIONS**

**Note:** It is recommended to add 1.0 % Velocity® DryMax (1 kg / 100 litres water) to all spray mixtures to enhance water quality and weed control efficacy.

<b><i>Crop / Soil Type</i></b>	<b><i>Dosage rate per hectare</i></b>	<b><i>Remarks</i></b>
<b><u>Clover And Grass</u></b>	4 ℓ	Apply from the first trifoliate leaf stage of the clovers and onwards.
<b><u>Lucerne</u></b>	4 ℓ	Apply from the first trifoliate leaf stage of the Lucerne. <b>Do not</b> apply later than the 4 <sup>th</sup> trifoliate development stage of the Lucerne. Established Lucerne may be treated after being cut.
<b><u>Undersown Lucerne In Grain Crops</u></b>	4 ℓ	See remarks under lucerne above. Apply when wheat is between 5-leaf stage and fully tillered stage.
<b><u>Annual Medics And Clover Pastures</u></b> ("Spray-Graze")	1.5 ℓ	Apply from the 5-8 trifoliate leaf stage of the clovers and onwards.
<b><u>Grazing</u></b> Heavily stock the camp with sheep for fast grazing of the weeds 1 to 2 weeks after this application. Complete the grazing process within ten (10) days to prevent excessive trampling damage to the clovers. The "spray graze" process must be completed by end July to allow sufficient time for the establishment of a good clover stand for seed harvesting. <b><u>NOTE</u></b> <b>The purpose of this treatments is not to “eradicate” the weeds but to make them more palatable for sheep after spraying.</b>		

**WEEDS CONTROLLED**

**Spray when weeds are in the 2 to 5 leaf stage and actively growing.  
The following weeds are controlled at a 4 l per hectare dosage rate**

<i>Amaranthus hybridus</i>	Common pigweed
<i>Archtotheca calendula</i> *	Cape Marigold
<i>Bidens pilosa</i>	Common blackjack
<i>Chenopodium album</i> *	White goosefoot
<i>Chenopodium carinatum</i> *	Green goosefoot
<i>Citrullus lanatus</i>	White watermelon
<i>Cleome monophylla</i>	Spindlepod
<i>Datura Stramonium</i>	Thorn apple
<i>Emex australis</i> *	Spiny emex
<i>Hibiscus trionum</i>	Bladderweed
<i>Plantago lanceolata</i>	Narrow-leaved ribwort
<i>Raphanus raphanistrum</i> *	Wild Radish
<i>Schkuhria pinnata</i>	Dwarf marigold
<i>Tagetes minuta</i>	Khaki weed
<i>Tribulus terrestris</i>	"Dubbeltjie"

\* Broadleaf weeds reacting favourably to "Spray Graze" treatments (refer above).

**The following weeds are controlled variably and may require additional measures such as hand weeding, mechanical cultivation or additional chemical treatments.**

<i>Datura ferox</i>	Large thorn apple
<i>Portulaca oleracea</i>	Purslane
<i>Tribulus terrestris</i>	Dubbeltjie

**NOTES ON WEEDS CONTROLLED**

- **2,4-DB 400 SL** controls the above-mentioned annual weed species alone, or in tank mixes with other products as indicated.
- Other annual weed species that were absent during the product's development trials, may possibly also be controlled to a certain degree. The registration holder does not accept any responsibility for unlisted weeds.
- Weeds which have not germinated at the time of application will not be controlled. A second application of **2,4-DB 400 SL** may be required to control such weeds.

Consult all products labels mentioned in this label for **WARNINGS, PRECAUTIONS, USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

The following products mentioned in this label may be replaced with equivalent products:

- **VELOCITY®-DRYMAX** (L 9454 / W 130995 / N-AR 1528) = **AMS-GRANULE** (L 9610).

**VELOCITY®-DRYMAX** is a registered trademark of **VILLA CROP PROTECTION (PTY) LTD.**

**VELOCITY®-DRYMAX** and **AMS-GRANULE** are registered products of **UNIVERSAL CROP PROTECTION (PTY) LTD.**