

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Herbicide



BOUND 200 SL

Reg. No. L 9280 Act/Wet No. 36 of/van 1947
N-AR 1735

4: 24/1/2020-Jan2020

A non-selective soluble concentrate herbicide for the post-emergence control of annual weeds, as indicated.

'n Nie-selektiewe oplosbare konsentraat onkruidodder vir die na-opkomsbeheer van eenjarige onkruid soos aangedui.

ACTIVE INGREDIENT / AKTIEWE BESTANDEEL

glufosinate-ammonium **200 g/l** glufosinaat-ammonium

HRAC HERBICIDE GROUP CODE **H** HRAC ONKRUIDDODER GROEPKODE



Registration holder / Registrasiehouer:
Villa Crop Protection (Pty) Ltd.
Co. Reg. No. / Mpy. Reg. Nr. 1992/002474/07
PO Box / Posbus 10413, Aston Manor, 1630
Tel: 011 396 2233

Website / Webblad: www.villacrop.co.za

24 HR EMERGENCY NUMBERS:

Griffon Poison Information Centre: +27 82 446 8946

Villa Crop Protection emergency number: +27 63 698 0668

24 Hr Transport / Spill emergency no: EnviroSure +27 31 205 4918

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(Client: Villa Crop Protection)

UN Number: 3082

Willow Set & Print 011 394-4486



**HARMFUL
SKADELIK**



GERBUKSAANWYSYNGS INGESLUIT

VERWYS NA BESONDERHEDE
GEDRUK OP HOUER/SAK

Date formulated:
Formuleringsdatum:

REFER TO DETAILS PRINTED
ON CONTAINER/BAG

Batch number:
Lotnommer:

DIRECTIONS FOR USE ENCLOSED

BOUND 200 SL

Reg. No. L 9280 / N-AR 1735 Act/Wet No. 36 of/van 1947

HRAC HERBICIDE GROUP CODE / HRAC ONKRUIDDODER GROEPKODE: H

ACTIVE INGREDIENT / AKTIEWE BESTANDEEL:

glufosinate-ammonium / glufosinaat-ammonium200 g/l

Registration holder / Registrasiehouer:

VILLA CROP PROTECTION (PTY) LTD.

Co. Reg. No. 19992/002474/07 Mpy. Reg. Nr.

P.O. Box / Posbus 10413

ASTON MANOR, 1630 Tel. (011) 396 2233

**WARNINGS**

IN THE CASE OF CROPS INTENDED FOR EXPORT, CONFIRM WITHHOLDING PERIODS WITH THE RELEVANT EXPORT ORGANISATION. IF THIS PRODUCT IS USED ACCORDING TO THE RECOMMENDATIONS ON THIS LABEL, LOCAL MRL VALUES WILL NOT BE EXCEEDED. HOWEVER, VILLA CROP PROTECTION (PTY) LTD. CANNOT ACCEPT RESPONSIBILITY FOR EXPORTED CROPS EXCEEDING THE IMPORT TOLERANCES OF OTHER COUNTRIES.

- Handle with care.
- Store in a cool place, away from food, feeds, seed, fertilizers and other agricultural chemicals.
- Keep out of reach of children, uniformed persons and animals.
- Avoid spray drift onto susceptible crops, e.g. all broadleaf crops, as well as all grain varieties in a susceptible stage of growth.
- **Re-entry:** Do not enter treated field within one (1) day after application, unless wearing protective clothing.
- **In case of poisoning, take the patient to a physician immediately and make this label available to him/her.**

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 effected 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 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 event of any uncertainty.

PRECAUTIONS

- Avoid inhalation of spray mist and fumes.
- Wear protective clothing: rubber gloves, boots and a face shield when handling the concentrate and rubber gloves and boots during application.
- Wash contaminated clothing daily.
- Wash with soap and water after use and after accidental skin contact.
- Do not eat, drink or smoke whilst mixing and applying or before washing hands and face and change of clothing.
- Avoid spray drift onto other crops, grazing, rivers, dams or areas not under treatment or to nearby water sources.
- Clean the applicator with a household ammonia solution (1 %) before using with other pesticides. Let solution stand for several hours, preferably overnight. 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, boreholes, rivers or dams.
- **TRIPLE RINSE** empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of one third of that

of the container. Add the rinsing to the contents of the spray tank before destroying the container in the prescribed manner.

- Destroy the empty container by perforation and flattening.
- **Never** use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

SYMPTOMS OF HUMAN POISONING

Shivering, disturbance of consciousness, cramps, gastrointestinal complaints, hyperthermia, dyspnoea, bradycardia/tachycardia

FIRST AID TREATMENT

- **Inhalation:** Remove source of contamination or move person to fresh air as rapidly as possible. Keep affected person warm and at rest. Treat symptomatically and supportively. Only qualified medical personnel should perform administration of oxygen. Get medical attention immediately if condition persists.
- **Skin contact:** If irritation occurs, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts). Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Do not rub the skin. If irritation persists, seek medical advice immediately.
- **Eye contact:** Immediately flush eyes with gently flowing lukewarm water for 15 minutes or until the product is removed, holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. **Seek medical attention immediately.**
- **Ingestion:** Have patient rinse mouth thoroughly with water. Do not induce vomiting. If person is alert and conscious, give 2 to 3 glasses of water to drink. **Seek medical attention immediately.**

NOTE TO PHYSICIAN

No specific antidote. Treat symptomatically. Specific treatment: Gastric lavage – administer activated charcoal, sodium sulphate and endotracheal intubation.

Administer phenobarbital sodium 1 mg/kg intra-muscularly or subcutaneously up to 5 mg/kg per day. If required, administer 10 mg Diazepam slowly intravenously. Elimination by dialysis (forced alkaline diuresis) or haemodialysis, perfusion. If necessary, give oxygen.

RESISTANCE WARNING

BOUND 200 SL is a group code H herbicide. Any weed population may contain individuals naturally resistant to **BOUND 200 SL** and other group code H herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **BOUND 200 SL** or any other group code H 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

- To prevent damage, do not permit drift, vapour or spray mist to come into contact with sensitive broadleaf crops, fruit trees and ornamental plants.
- Seedlings that have not emerged at the time of application will not be controlled.
- Poor control will be obtained if weeds are subjected to stress conditions such as drought, flooding and low temperatures.
- Senescing or dormant weeds, or weeds that are growing slowly due to other plant stress factors will also be controlled inadequately.
- Allow at least 12 hours between application and irrigation where perennial weeds, or weeds with a prominent waxy cuticle. For weeds without prominent waxy leaves, 6 hours may lapse before irrigation is commenced.
- Rainfall exceeding 5 mm will have the same effect as irrigation mentioned above.
- Do not spray weeds that are wet from dew or rain as this will result in suboptimal control.
- Do not spray weeds where the leaves are covered with dust, mud or debris (such as can be encountered under flood irrigation).
- Green side shoots and suckers may be sprayed and scorched without damage extending to the rest of a fruit tree or vine.
- Ensure that direct spray or drift does not come into contact with green leaves, active buds and fruit.

- Where young trees with green stems are present, these should be protected, or spray shields used to prevent damage.
- Trim low hanging branches to prevent leaf and fruit contact as well as to prevent interference with weed control.
- **DO NOT** apply in water volumes below 300 litres per hectare.

DIRECTIONS FOR USE: Use only as directed.

Compatibility:

BOUND 200 SL is compatible with the following products: **Develop 800 WDG, Villex 750 WDG, METRIBUZIN 480 SC (L 4374), Terbuweed 600 WDG, Summit Super, Velocity®-Super and Velocity®-DryMax.**

Do not mix **BOUND 200 SL** in the spray tank with other chemicals, unless prior use of such mixture has proven the combination to be physically and biologically compatible.

Mixing instructions:

- Shake the container well before use
- **Only use clear clean water for mixing. Do not use water, which is contaminated by mud, minerals or organic matter.**

Ground application:

Avoid fine droplet size - use low-pressure flat fan nozzles of 80 degrees or equivalent anti-drift type and do not exceed spray pressure of 200 kPa. Do not exceed spray height of 50 cm above target and ground speed of 10 km per hour. Do not apply if wind velocity exceeds 15 km per hour. The difference between the wet and dry bulb readings on a whirling hygrometer must not exceed 8 °C.

For weeds in the seedling stage (up to 10 cm high), use the lower listed dose. For weeds taller than 10 cm but less than 50 cm use, the higher dose listed.

Spot treatment of weeds:

In the case of spot spraying of weeds, use the same recommendations and concentration as for overall applications. Ensure thorough wetting of the weeds.

APPLICATION RATES

- Refer to “**USE RESTRICTIONS**” above.
- Apply to actively growing weeds. Refer to the optimum weed growth stages below.
- Optimum control is obtained if application is done within 3 days after good rainfall and there is sufficient soil moisture to promote active plant growth.
- Symptoms of herbicidal effect are only visible from 7 to 10 days after application. Complete control is achieved 2 to 6 weeks after application depending on weed type, age, vigour, climate, etc.

1. **SUGARCANE** - (Directed post-emergence application between the rows in plant and ratoon sugarcane).

IMPORTANT NOTE

Ensure that the spray application does not make contact with the sugarcane foliage, as the cane crop will be damaged.

BOUND 200 SL 3.0 ℓ / ha		
PLUS		
2.5 kg/ha Develop 800 WDG	OR	2 kg/ha Develop 800 WDG
PLUS		PLUS
1.5 kg/ha Villex 750 WDG		3.0 ℓ/ha Metribuzin 480 SC
Refer to the Develop 800 WDG , Villex 750 WDG , Metribuzin 480 SC labels for list of weeds species controlled as well as “ USE RESTRICTIONS ” and “ DIRECTIONS FOR USE ”.		

NOTE

Initial scorching of sugarcane foliage may occur, but the crop will outgrow this and should have no effect on yield.

2. **GRAPE VINES**

Control of *Lolium* spp. (Rye grass) in grape vines.

BOUND 200 SL 5.0 to 7.5 ℓ / ha
<ul style="list-style-type: none"> • See below (POME AND STONE FRUIT AND VINES IN THE WINTER RAINFALL REGION) for application information. • Do not spray vines younger than two (2) years unless stems are shielded. • IMPORTANT Always add a Villa approved adjuvant like Summit Super (0.3 %) to the treatment.

3. **POME AND STONE FRUIT AND VINES IN THE WINTER RAINFALL REGION**

BOUND 200 SL Refer to the weed list below for dosage rates
<ul style="list-style-type: none"> • Start with application in late winter or early spring. Note the recommendations for specific weeds species. • Commence spraying before bud burst in bush and low trellised vines. • In the case of high trellises, do not apply onto overhanging foliage or green portions of the vines. • Do not spray vines or trees younger than two (2) years unless stems are shielded. • Follow-up treatments may be required for effective control of perennial or problem broadleaf weeds 4 to 6 weeks after the initial spray unless otherwise indicated.

4. CONTROL OF BROADLEAF AND GRASS WEEDS IN ORCHARDS

Post-emergence application of **BOUND 200 SL** plus **Terbuweed 600 WDG** plus **Summit Super** in citrus and apples.

<i>Crop</i>	<i>Dosage rate</i>	<i>Remarks</i>
<u>Citrus & Apples</u>	BOUND 200 SL 5 ℓ/ha PLUS Terbuweed 600 WDG 3.4 kg/ha PLUS Summit Super 0.3 %	Apply during spring. Spray post-emergence of weeds when weeds are growing actively.

Refer to the **Terbuweed 600 WDG** labels for **WARNINGS, PRECAUTIONS, USE RESTRICTIONS** and **DIRECTIONS FOR USE** and a list of weed species controlled, as well as the **Summit Super** labels for **WARNINGS, PRECAUTIONS, USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

NOTES

- Apply in 300 to 500 litres water per hectare as an overall application.
- Ensure thorough coverage and wetting of the weeds.
- Apply only in orchards at least one (1) year after transplant, preferably older.
- Temporary chlorosis (yellowing) / slight sensitivity may occur when applied in Star Ruby pomelos but will not result in a reduced yield.

5. MACADAMIAS AND OTHER TREE NUTS

BOUND 200 SL 5.0 ℓ/ha to 7.5 ℓ/ha PLUS Summit Super 0.3 %
<ul style="list-style-type: none"> • To be applied post-emergence to weeds. When weeds are growing actively. • Apply in 300 to 500 litres of water per hectare as an overall application. • Apply as a directed spray onto weeds. • Ensure thorough coverage and wetting of the weeds. • Apply only in orchards older than two (2) years unless stems are shielded.

6. POTATOES

Control of volunteer potatoes before planting other crops.

BOUND 200 SL 5.0 to 7.5 ℓ / ha
<ul style="list-style-type: none"> • IMPORTANT Always add a Villa approved adjuvant like Summit Super (0.3 %) to this spray mixture.

7. **UNPLANTED AREAS IN THE SUMMER AND WINTER RAINFALL AREAS (INCLUDING INDUSTRIAL SITES)**

- Apply when weeds are actively growing.

WEEDS CONTROLLED BY BOUND 200 SL:			
Botanical name	Common name	Dosage rate l / ha	Remarks
ADD Velocity®-Super OR Velocity®-DryMax AS A STANDARD PRACTICE Refer to the labels for rates			
<i>Zea mays</i>	Volunteer maize	5.0 to 7.5	Do not apply later than 5-leaf stage of Glyphosate tolerant volunteer maize.
Annual grasses:			
<i>Lolium</i> spp.	Rye grass	5.0 to 7.5	Spray while growing actively. Use higher dosage rate for more mature plants and/or dense stands of the weed.
<i>Bromus unioloides</i>	Rescue grass		Spray at any stage while growing actively. Repeat when 50 to 60 % re-growth occurs.
<i>Digitaria sanguinalis</i>	Crabfinger-grass		Spray before seed set.
<i>Echinochloa colona</i>	Marsh grass		
<i>Eleusine indica</i>	Goose grass		
<i>Setaria verticillata</i>	Bur bristle grass		
<i>Tragus berteronianus</i>	Small carrotseed grass		
<i>Tragus racemosus</i>	Large carrotseed grass		
<i>Urochloa mosambicensis</i>	Bushveld herringbone grass		
<i>Urochloa panicoides</i>	Herringbone grass		

WEEDS CONTROLLED BY BOUND 200 SL:			
Botanical name	Common name	Dosage rate ℓ / ha	Remarks
ADD Velocity®-Super OR Velocity®-DryMax AS A STANDARD PRACTICE Refer to the labels for rates			
<u>Perennial grasses and sedges:</u>			
<u>NOTE</u>			
With regard to under-mentioned perennial grasses, repeat application when 50 to 60 % re-growth occurred. Apply at least 300 to 500 litres per hectare spray mixture and ensure thorough coverage of the foliage.			
<i>Cynodon dactylon</i>	Common couch grass	7.5	Spray at any stage when actively growing. Multiple applications. Apply when adequate leaf surface area is available for uptake but before the grass becomes a recumbent mat.
<i>Panicum maximum</i>	Common buffalo grass	5.0 to 7.5	Spray at any stage when actively growing. If re-growth is observed, re-spray at the lower rate.
<i>Paspalum dilatatum</i>	Common Paspalum	5.0 to 7.5	Spray at any stage when actively growing. If re-growth is observed, re-spray at the lower rate.
<i>Paspalum paspaloides</i>	Couch Paspalum	7.5	Spray at any stage when actively growing.
<i>Pennisetum clandestinum</i>	Kikuyu	5.0 to 7.5	Spray at any stage when actively growing. If re-growth is observed, re-spray at the lower rate 5 to 8 weeks later. Use 5.0 litres per hectare in case of follow-up crops.
<i>Cyperus esculentus</i>	Yellow nutsedge	7.5	Multiple applications may be required as re-growth normally occurs. Good suppression of Nutsedge can be obtained under normal growing conditions with 7.5 litres per hectare at 5 % flowering, where Nutsedge is shaded. Erratic control will be obtained under adverse conditions due to climatic and other factors that affect herbicide absorption and growth. Re-spray when sufficient leaf surface area has developed for efficient absorption of the herbicide.
<i>Cyperus rotundus</i>	Purple nutsedge		
<i>Kylinga erecta</i>	White sedge		

WEEDS CONTROLLED BY BOUND 200 SL:			
Botanical name	Common name	Dosage rate l / ha	Remarks
ADD Velocity®-Super OR Velocity®-DryMax AS A STANDARD PRACTICE Refer to the labels for rates			
Broadleaf weeds:			
<i>Acanthospermum hispidum</i>	Upright starbur	5.0 to 7.5	Spray before seed sets or plants reach a height of 25 cm.
<i>Alternanthera pungens</i>	Khaki bur weed	5.0	Spray before seed sets.
<i>Amaranthus spinosus</i>	Thorny pigweed	5.0	Spray before seed sets or plants reach a height of 25 cm.
<i>Amaranthus</i> spp	Pigweed	5.0 to 7.5	
<i>Bidens pilosa</i>	Blackjack	5.0 to 7.5	
<i>Chenopodium album</i> *	White goosefoot	5.0 to 7.5* See Note below	
<i>Chenopodium carinatum</i>	Green goosefoot	5.0 to 7.5	
<i>Commelina benghalensis</i>	Bengal wanderingjew	5.0 to 7.5	Spray at any stage when actively growing.
<i>Conyza bonariensis</i>	Flax-leaf fleabane	5.0 to 7.5	Spray before seed sets or plants reach a height of 25 cm.
<i>Conyza canadensis</i>	Horseweed fleabane	7.5	
<i>Datura stramonium</i>	Thorn apple	5.0 to 7.5	
<i>Euphorbia hirta</i>	Red milkweed	5.0 to 7.5	Spray at any stage when actively growing.
<i>Fallopia convolvulus</i>	Climbing knotweed	5.0	Spray before seed sets.
<i>Galinsoga parviflora</i>	Gallant soldier	5.0	Spray at any stage when actively growing.
<i>Lepidium africanum</i>	Pepper cress	5.0 to 7.5	Spray before seed sets.
<i>Oxalis</i> spp	Sorrel	5.0	Spray at any stage when actively growing.
<i>Physalis angulata</i>	Wild gooseberry	5.0	
<i>Portulaca oleracea</i>	Purslane	5.0 to 7.5	
<i>Richardia brasiliensis</i>	Tropical Richardia	5.0 to 7.5	
<i>Rumex lanceolatus</i>	Smooth dock	5.0 to 7.5	Spray before seed sets or plants reach a height of 25 cm.
<i>Schkuhria pinnata</i>	Dwarf marigold	5.0 to 7.5	Spray before seed sets.
<i>Sida rhombifolia</i>	Arrowleaf sida	5.0 to 7.5	Spray before seed sets. Apply onto seedlings as older plants are not well controlled.
<i>Solanum tuberosum</i>	Volunteer potatoes	5.0 to 7.5	Spray before 6 leaf stage.
<i>Tagetes minuta</i>	Khaki weed	7.5	Spray before seed sets or plants reach a height of 25 cm.

* **Important note: Use a dosage rate of 7.5 l/ha in the Winter Rainfall region for control of *Chenopodium album*.**

Consult the **Velocity®-Super, Velocity®-DryMax, Summit Super, Develop 800 WDG** and **Villex 800 WDG** labels for **WARNINGS, PRECAUTIONS** and **DIRECTIONS FOR USE**.

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

- **VELOCITY®-SUPER** (L 9603 / W 130996) = **AMS-SUPER** (L 9758),
- **VELOCITY®-DRYMAX** (L 9454 / W 130995 / N-AR 1528) = **AMS-GRANULE** (L 9610),
- **SUMMIT SUPER** (L 8539) = **BENEFIT PLUS** (L 8538),
- **DEVELOP 800 WDG** (L 9109) (**Diuron**) = **EXTEND 800 WDG** (L 9108 / W 1301047),
- **TERBUWEED 600 WDG** (L 8800) = **TERBUCIDE 600 WDG** (L 8799 / W 1301046) = **TERBUMAIS 600 WDG** (L 8798) and
- **VILLEX 750 WDG** (L 8364) = **UNIZONE 800 WDG** (L 8363) (**Hexazinone**).

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SUMMIT SUPER, METRIBUZIN 240 SC, DEVELOP 800 WDG, VILLEX 750 WDG, AMS-SUPER, AMS-GRANULE and/en **BENEFIT PLUS** are registered products of / is geregistreerde produkte van **VILLA CROP PROTECTION (PTY) LTD.**

UNIZONE 750 WDG and/en **EXTEND 800 WDG** are registered products of / is geregistreerde produkte van **UNIVERSAL CROP PROTECTION (PTY) LTD.**

TERBUMAIS 600 WDG is a registered product of / is 'n geregistreerde produk van **CROPASURE (PTY) LTD.**