

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Herbicide



**CARDINAL 200 EC**

Reg. No. L 9928 Act/Wet No. 36 of/van 1947  
N-AR 1892 / W 1301116

1: 19/10/2015 – May 2019

*An emulsifiable concentrate herbicide for control of unwanted plants as indicated.*

*'n Emulgeerbare konsentraat onkruidoder vir beheer van ongewenste plante soos aangedui.*

**ACTIVE INGREDIENT / AKTIEWE BESTANDEEL**

fluroxypyr (pyridine acid) **200 g/l** fluroksipir (piridiensuur)

HRAC HERBICIDE GROUP CODE **O** HRAC ONKRUIDDODER GROEPKODE



**villa**

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](http://www.villacrop.co.za)

**UN Number: 1993**

Willow Set & Print 011 394-4486



**CAUTION  
VERSIGTIG**



GEBRUIKSAANWYSINGS INGESLUIT

Date formulated: **VERWYS NA BESONDERHEDE**  
Formuleringssdatum: **GEDRUK OP HOUER/SAK**

DIRECTIONS FOR USE ENCLOSED  
Batch number: **REFER TO DETAILS PRINTED**  
Lotnummer: **ON CONTAINER/BAG**

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 HRAC HERBICIDE GROUP CODE / HRAC ONKRUIDDODER GROEPKODE: O

**ACTIVE INGREDIENT / AKTIEWE BESTANDEDEL:**

fluroxypyr (pyridine acid) / fluroksipir (piridiensuur) ..... 200 g/l

Registration holder / Registrasiehouer:

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

Co. Reg. No. 1992/002474/07 Mpy. Reg. Nr.

PO Box / Posbus 10413,

ASTON MANOR, 1630, Tel. (011) 396 2233

**CAUTION / VERSIGTIG****WARNINGS****Re-cropping intervals:**

<b>The following waiting periods should lapse between application of CARDINAL 200 EC and the planting of follow-up crops, to prevent damage to the next crop:</b>	
Broadleaf crops	120 days

- **WITHHOLDING PERIOD** – Allow three (3) days between last application and grazing of treated areas.
- Handle with care.
- May cause eye irritation.
- Poisonous by swallowing.
- **Flammable** – keep away from flames.
- Store in a cool, dry place under lock and key, away from food, feed, seed, fertilizers and other agricultural remedies.
- Keep out of reach of children, animals and uninformed persons.

**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 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**

- Avoid inhalation of the spray mist.
- Wear a face shield and rubber gloves when handling the concentrate and during mixing.
- Wash with soap and water after use or accidental skin contact.
- Wash contaminated clothes daily after use.
- Do not eat, drink or smoke while applying, mixing or before washing hands and face or change of clothing.
- Prevent spray drift onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean spraying equipment directly after use and 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 a 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 empty container by perforation and flattening and dispose of it in a safe way.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

**RESISTANCE WARNING**

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

- Do not allow spray mist to contaminate susceptible crops.
- Treatment of woody species: It is very important to use **Summit Super** according to the label recommendations.
- Avoid post-emergence application of **CARDINAL 200 EC** to plants under stress, due to factors such as drought or flooding, nematode infestations, diseases, nutritional imbalances or plants put under stress, due to prior use of other herbicides.

**GENERAL INFORMATION**

- It takes considerable time for target plants to die off completely (certain woody species can take up to 4 to 5 months to die-off completely). However, active growth of the target plants is terminated shortly after application, hence the requirement that the target plants must be growing actively at time of treatment.
- Certain target species may re-grow from the rootstocks (e.g. *Solanum elaeagnifolium*). In case of regrowth, apply as a spot treatment onto actively growing re-growth, and ensure that all leaves and stems are thoroughly wetted to just before the point of run-off.

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

- **CARDINAL 200 EC** is compatible with the adjuvant **Summit Super**.
- When **CARDINAL 200 EC** is used in conjunction with any other agricultural remedy, all **WARNINGS**, **PRECAUTIONS** and **DIRECTIONS FOR USE** mentioned on that label, must be adhered to.

**Mixing instructions:**

- Half fill the spray tank with clean water.
- Ensure agitation of water in the spray/mixing tank.
- Measure out the required volume and add to the spray tank.
- Fill the spray/mixing tank with clean water to the required level, while maintaining agitation, to ensure thorough mixing of the spray mixture before commencement of application. Maintain agitation while spraying.
- The prepared spray mixture must not be left in the spray tank for any length of time, e.g. overnight.

**Recommendations for application:**

- Use accurately calibrated spray equipment, in good working order with appropriate nozzles and with an efficient agitation mechanism.
- Apply as a full cover spray to dry leaves and stems. Do not apply to wet foliage.
- Use a knapsack sprayer with a solid cone nozzle that will ensure an even coverage of the target area. Maintain a constant pressure of between 2 to 3 Bar.
- Once the spray deposit has dried on the target plants after application, rain will have no effect on efficacy.
- Avoid spray drift onto non-target plants.

**APPLICATION RATES****IMPORTANT**

Refer to “USE RESTRICTIONS” and “GENERAL INFORMATION” above before use.

<b>Target species</b>	<b>Dosage rate</b>	<b>Remarks</b>
<u>Black wattle</u> <i>Acacia mearnsii</i>	125 ml / 100 ℓ water  <b>PLUS</b>  500 ml / 100 ℓ water (0.5 %) <b>Summit Super</b>	<u>Foliar treatment:</u> Seedling / young trees (maximum height of 1.0 m). Apply sufficient spray mixture to ensure thorough wetting of all leaves and stems of young actively growing plants.
<u>Blackwood</u> <i>Acacia melanoxylon</i>	125 ml / 100 ℓ water  <b>PLUS</b>  500 ml / 100 ℓ water (0.5 %) <b>Summit Super</b>	<u>Foliar treatment:</u> Seedling / young trees (maximum height of 1.0 m). Apply sufficient spray mixture, to ensure thorough wetting of all leaves and stems of young actively growing plants.
<u>Bug tree</u> <i>Solanum mauritianum</i>	125 ml / 100 ℓ water  <b>PLUS</b>  500 ml / 100 ℓ water (0.5%) <b>Summit Super</b>	<u>Foliar treatment:</u> Young plants (maximum height of 1.0 m). Apply sufficient spray mixture, to ensure thorough wetting of all leaves and stems of actively growing plants. If target plants exceed a height of 1.0 m, slash and allow it to re-grow to a height of at least 0.5 m before treatment.
	1.0 ℓ / 100 ℓ <b>diesel</b>	<u>Stem treatment:</u> Apply by paintbrush or knapsack sprayer as a coarse, low-pressure spray using narrow angle solid cone nozzle. Apply all around the basal stem or trunk of the woody plant, from soil level to a height of 25 cm from the soil surface, as well as any exposed roots. Complete wetting of the indicated area is important for optimal results. Old or rough bark surfaces may require higher volumes of the mixture, compared to young or smooth bark. In the case of multi-stemmed plants, treat each stem separately.

The following product mentioned in this label is equivalent to the product as listed below:

- **SUMMIT SUPER** (L 8539) = **BENEFIT PLUS** (L 8538).

**SUMMIT SUPER** and/en **BENEFIT PLUS** are registered products of / is geregistreerde produkte van  
**VILLA CROP PROTECTION (PTY) LTD.**