

READ THE LABEL BEFORE USE. KEEP OUT OF REACH OF CHILDREN AND ANIMALS.



Herbicide

# CLOZONE 480 EC

Reg. No. L 10671 Act No. 36 of 1947

4: 22/05/2024 – July2024

A selective residual pre-emergence, emulsifiable concentrate herbicide for the control of annual grasses and some broadleaf weeds in soybeans and tobacco, grown in the summer rainfall region.

## ACTIVE INGREDIENT

clomazone (isoxazolidinone)

480 g/l

GROUP

34

HERBICIDE



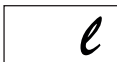
DANGER

### Hazard Statements:

Harmful if swallowed.  
May be fatal if swallowed and enters airways.  
May be harmful in contact with skin.  
Causes mild skin irritation.  
Causes serious eye damage.  
Very toxic to aquatic life.  
Very toxic to aquatic life with long lasting effects.

### Precautionary Statements:

IF SWALLOWED: Get emergency medical help immediately.  
IF IN EYES: Immediately rinse with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
Avoid release into the environment.



**villa**



UN Number: 3082

Registration holder: VILLA CROP PROTECTION (PTY) LTD.  
Co. Reg. No. 1992/002474/07  
65 Botes Road, Glen Marais, Kempton Park, 1619  
Tel. (011) 396 2233  
Website: [www.villacrop.co.za](http://www.villacrop.co.za)

IN CASE OF POISONING / 24 HR EMERGENCY NUMBERS:  
Griffon Poison Information Centre (National): +27 82 446 8946  
Poison Information Helpline (National): +27 861 555 777  
24 Hr Transport / Spill emergency no: (Hazcall24) +27 86 044 4411  
(Client: Villa Crop Protection)

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

DIRECTIONS FOR USE ENCLOSED

Batch Number:

Date of Manufacture:

**CLOZONE 480 EC**

Reg. No. L 10671 Act No. 36 of 1947  
 HRAC HERBICIDE GROUP CODE: 34

**ACTIVE INGREDIENT:**

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**SAFETY INFORMATION****Hazard statements:**

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May be fatal if swallowed and enters airways.
May be harmful if in contact with skin.
Causes mild skin irritation.
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Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

- Handle with care.
- Store in a cool, dry place under lock and key, away from food, feeds, seed, fertilizers and other agricultural remedies.
- Re-entry: Do not enter treated area until spray deposit has dried unless wearing protective clothing.
- **In case of poisoning, call a physician 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 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 pest 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**

If skin irritation occurs: get medical help.
Wash hands thoroughly after handling. Do not touch eyes.
Do not eat, drink or smoke when using this product.
Avoid release into the environment.
Wear chemical safety goggles.
IF SWALLOWED: Get emergency medical help immediately.
IF ON SKIN: IF ON SKIN: 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.
Rinse mouth.
Do NOT induce vomiting.
If skin irritation occurs: get medical help.
Collect spillage.
Store in a well-ventilated place.
Dispose of content/container to suitable landfill in accordance with local regulations.

- Prevent drift of spray mist onto other crops, grazing, rivers, dams and areas not under treatment or to nearby water sources.
- Thoroughly clean the spraying equipment directly after use and dispose of wash water where it will not contaminate food, grazing, boreholes, 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.
- Never **re-use the empty container for any other purpose.**

<b>Relevant hazardous components</b>	
<b>Clomazone</b>	<b>480 g/l</b>
Calcium n-dodecyl benzenesulfonate	> 90 g/l
solvent Naphtha 100	>50%

**In case of poisoning, call the following number:** +27 82 446 8946 (Griffon Poison Information Centre).

**In case of a chemical spill call the following 24 Hr Transport / Spill emergency number:** +27 86 044 4411 (Hazcall24 / Client: Villa Crop Protection).

### **SYMPTOMS OF HUMAN POISONING**

Symptoms of overexposure to the active ingredient may include: Loss of motor co-ordination, lacrimation, bloody tears, oral and nasal discharge, bloody nose, irregular breathing, hair loss, salivation and bulging eyes.

### **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. **Immediately consult a doctor.**
- **Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. **Seek medical attention** if irritation occurs. Seek medical attention if you feel unwell after inhalation.
- **Skin:** Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Obtain medical attention if irritation persists.
- **Eyes:** Flush eyes with clean water for at least 15 to 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. **Seek medical attention.**
- **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. **Seek medical attention.**

### **NOTE TO PHYSICIAN**

**Advice to physician:** Treat symptomatically and supportively. No specific antidote known.

### **RESISTANCE WARNING**

**CLOZONE 480 EC** is a group code 34 herbicide. Any weed-specific population may contain individuals naturally resistant to **CLOZONE 480 EC** and other group code 34 herbicide. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **CLOZONE 480 EC** or any other group code 34 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.

### **MODE OF ACTION**

**Clomazone** acts by inhibition of 1-deoxy-D-xyulose 5-phosphate synthase (DOXP), blocking isoprenoid biosynthesis. Clomazone is a selective, systemic herbicide, absorbed by the roots and shoots and

translocated acropetally in the xylem. Susceptible species emerge but are devoid of pigmentation. Believed to be a pro-pesticide – metabolizes the 3,5-diketo derivative, the apparent biologically active species.

## **USE RESTRICTIONS**

### **General:**

- Phytotoxic symptoms may occur because of seedlings not wilting after transplantation.
- Temporary chlorosis of tobacco plants' sand leaves may occur.
- Phytotoxic symptoms may occur on adjacent crops, trees and shrubs as a result of spray drift.
- To prevent spray drift:
  - make use of an appropriate low drift design nozzle to deliver the desired spray volume at the lowest possible spray pressure.
  - Do not spray when the wind speed is more than 15 km/h.
  - Do not mount spray booms too high.
  - Do not apply **CLOZONE 480 EC** within 300 m of non-target crops or neighbouring shrubbery.

Monitor temperature, humidity and soil moisture to prevent volatilization.

<b>Waiting Periods for Follow-on crops:</b> (from the last application to planting of follow-on crop).	
Cabbage, Cucurbits, Oats, Onion and Peas	6 months
Maize, Sweetcorn, Wheat and grass lays	9 months

- Deep soil cultivation before planting may reduce the risk of carry-over to the follow-on crop.

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

Read the entire label before application. This agricultural remedy is to be used only in accordance with the instructions on the label. It is an offence under the Act to use this agricultural remedy for any purpose in a manner contrary with the directions on the label.

### **Compatibility:**

- **CLOZONE 480 EC** is compatible with **SAVIA 500 SC** (L 8240) (**Metazachlor**).

### **Application Recommendations:**

- **CLOZONE 480 EC** can be applied using any suitable medium to high volume applicator.
- The applicator must be calibrated correctly and should be fitted with an efficient agitation system that can apply the spray mixture evenly over the target area.
- Apply not less than 200 litres spray mixture per hectare to ensure thorough coverage.

### **Post Spray Equipment Cleaning**

It is essential to rinse the spray tank and all hoses with a 0.1 % solution of either calcium chloride or ammonium hydroxide or the recommended rate of **Protank® liquid cleaner** according to the product label. Allow this solution to stand in the spray equipment for 15 minutes; empty the spray equipment; repeat the rinsing with a 0.1 % solution of calcium chloride or ammonium hydroxide for 15 minutes; rinse all equipment with water. Nozzles and fitters must be cleaned individually. Rinse water and solution should be drained in a cesspool or drain where it will not contaminate any water source.

**APPLICATION RATES**

Refer to the “WEEDS CONTROLLED” table below, to establish the appropriate application rate.

**1. Pre-emergence control of weeds in Soybeans:**

Refer to the “WEEDS CONTROLLED” table below, to establish the appropriate application rate.

<b>Crop</b>	<b>Clay %</b>	<b>Dosage Rate litres per hectare</b>	<b>Remarks</b>
<b>Soybeans</b>	11 % to 20 %	1.0 to 1.5 ℓ  <b>OR</b>  0.75 ℓ <b>PLUS</b> 0.4 ℓ <b>Savia 500 SC</b>	Apply at planting or within three (3) days of planting onto a prepared, fine, even and firm seedbed without excessive plant rests.
	>20 %	1.0 to 2.0 ℓ  <b>OR</b>  1.0 ℓ <b>PLUS</b> 0.5 ℓ <b>Savia 500 SC</b>	For increased residual control of grasses and broadleaf weeds, a tank mix of <b>CLOZONE 480 EC</b> plus <b>Savia 500 SC</b> is recommended.

**2. Control of weeds in Tobacco after transplanting:**

<b>Crop</b>	<b>Dosage Rate litres per hectare</b>	<b>Remarks</b>
<b>Tobacco</b>	1.5 to 2.5 ℓ	Apply <b>CLOZONE 480 EC</b> immediately after transplanting tobacco seedlings while the plants are still in a wilted condition. Ensure the seedbed is fine, even and firm and without excessive plant residues. Apply as a directed spray and <b>DO NOT</b> apply over tobacco plants.
	1.0 to 1.5 ℓ  <b>FOLLOWED BY</b>  1.0 ℓ <b>Savia 500 SC</b>	Apply <b>CLOZONE 480 EC</b> as described above. For increased control, apply <b>Savia 500 SC</b> as a follow-up treatment 4 weeks after transplantation of tobacco seedlings, as a directed application on a weed-free seedbed.  Do a shallow cultivation to control weeds that have already germinated before the application of <b>Savia 500 SC</b> .

Refer to the **Savia 500 SC** label for “**WARNINGS, USE RESTRICTIONS** and **RECOMMENDATIONS**”.

<b>WEEDS NORMALLY CONTROLLED BY CLOZONE 480 EC</b>		
<b>Broadleaf weeds:</b>		
<b>Rate per hectare</b>	<b>Biological name</b>	<b>Common name</b>
1.0 ℓ <b>CLOZONE 480 EC</b>	<i>Amaranthus hybridus</i>	Common pigweed
	<i>Eleusine coracana</i>	Goose grass
	<i>Schkurhia pinnata</i>	Dwarf marigold
	<i>Tagetes minuta</i>	Khaki weed
1.5 ℓ <b>CLOZONE 480 EC</b> Above-mentioned weeds plus...	<i>Chenopodium album</i>	White goosefoot
	<i>Digitaria sanguinalis</i>	Crab finger grass
	<i>Echinochloa colona</i>	Marsh grass
	<i>Galinsoga parviflora</i>	Quick weed
	<i>Hibiscus triorum</i>	Bladderweed
	<i>Physalis angulate</i>	Wild gooseberry
2.0 ℓ <b>CLOZONE 480 EC</b> Above-mentioned weeds plus...	<i>Commenlina benghalensis</i>	Wandering Jew
	<i>Portulaca oleracea</i>	Common purslane
	<i>Tribulus terrestris</i>	Devil thorn
	<i>Urochloa panicoides</i>	Garden urochloa
	<i>Xanthium strumarium</i>	Cocklebur
1.0 ℓ <b>CLOZONE 480 EC PLUS</b> 0.5 ℓ <b>Savia 500 SC</b> Above-mentioned weeds plus...	<i>Cleome monophylla</i>	Spindepod
	<i>Datura ferox</i>	Large thorn apple
	<i>Datura stramonium</i>	Common thorn apple
	<i>Ipomoea purpurea</i>	Morning glory
	<i>Panicum schinzii</i>	Sweet buffalo grass

Consult the **Savia 500 SC** label for **WARNINGS, PRECAUTIONS, RESTRICTIONS** and **DIRECTIONS FOR USE**.

**SAVIA 500 SC** is a registered product of **UNIVERSAL CROP PROTECTION (PTY) LTD.**

**PROTANK® LIQUID CLEANER** is a registered trademark of **WINFIELD SOLUTIONS REGISTRATION HOLDINGS (PTY) LTD**