

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



Herbicide

CAMPATOP 225 EC

Reg. No. L 5320 Act No. 36 of 1947
N-AR 1115 / W 1301421

6: 31/05/2024 – Aug2024

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

A selective emulsifiable concentrate herbicide for the post-emergence control of annual broad-leaved weeds as listed in crops.

ACTIVE INGREDIENT

bromoxynil as the octanoate (nitrile) 225 g/ℓ

GROUP

6

HERBICIDE



DANGER

Hazard Statements:

Flammable liquid and vapour.
Harmful if swallowed.
May be harmful in contact with skin.
Toxic if inhaled
May be fatal if swallowed and enters airways.
Causes mild skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.

Suspected of damaging the unborn child.
Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

Obtain, read and follow all safety instructions before use.
Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
Avoid release into the environment.



villa

UN Number: 2903

Registration holder: VILLA CROP PROTECTION (PTY) LTD.
Co. Reg. No. 1992/002474/07
P.O. Box 10413, Aston Manor, 1630
Tel. (011) 396 2233
Website: 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)

DIRECTIONS FOR USE ENCLOSED

Batch Number:
Date of Manufacture:

CAMPATOP 225 EC

Reg. No. L 5320 Act No. 36 of 1947

N-AR 115 / W 1301421

HRAC HERBICIDE GROUP CODE: 6

ACTIVE INGREDIENT:

bromoxynil as the octanoate (nitrile) 225 g/l

Registration holder :

VILLA CROP PROTECTION (PTY) LTD.

Co. Reg. No. 1992/002474/07

PO Box 10413, KEMPTON PARK, 1620,

Tel. (011) 396 2233

WARNINGS

Minimum time between the last application and harvest or grazing:	
Wheat and barley	40 days

Hazard statements:

Flammable liquid and vapour.
Harmful if swallowed.
May be harmful in contact with skin.
Toxic if inhaled
May be fatal if swallowed and enters airways.
Causes mild skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
Suspected of damaging the unborn child.
Very toxic to aquatic life with long lasting effects.

- Handle with care.
- Store under lock and key in a cool place.
- Store away from food, feeds, seed, fertilizers and other agricultural chemicals.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated area within 2 days after treatment unless wearing protective clothing.
- **In case of poisoning call a doctor and make this label available to him/her.**

Aerial application

Notify all inhabitants in the immediate vicinity of the lands to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate water or adjacent areas.

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.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment.
Use explosion-proof equipment.
Use non-sparking tools.

Take action to prevent static discharges.
Avoid breathing dust, fumes, mists, gas, vapours or spray.
Wash hands thoroughly after handling. Do not touch eyes.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release into the environment.
Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
IF SWALLOWED: Get emergency medical help immediately.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [shower].
IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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. Get medical help.
IF exposed or concerned, get medical advice.
Rinse mouth.
Do NOT induce vomiting.
If skin irritation or rash occurs: Get medical help.
Collect spillage.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of content/container to suitable landfill in accordance with local regulations.

- Prevent drift onto other crops, grazing, rivers, dams or areas not under treatment or to nearby water sources.
- Do not use close to fishponds, fish tanks or aquaria.
- Thoroughly clean the spraying equipment directly after use and dispose of wash water where it will not contaminate food, grazing, boreholes, rivers or dams.
- Containers must be completely emptied before being disposed of.
- **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 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). 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.

Relevant hazardous components	
Bromoxynil octanoate	225 g/l
Calcium dodecyl-benzoate	<15 g/l
Aromatic hydrocarbon	<65 g/l

NOTE: The ingredients listed above contribute to the overall GHS classification, the remaining ingredients do not have to be listed according to the South African Regulations for Hazardous Chemical Agents 2021, Regulation 14(b).

In case of poisoning, call the following number: +27 82 446 8946 (Griffon Poison Information Centre) or +27 861 555 777 (Poison Information Helpline).

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

There are no known signs and symptoms of **Bromoxynil** poisoning.

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 source of contamination or move the victim to fresh air. Keep person calm and at rest. If breathing has stopped, perform artificial respiration and administer oxygen. Only qualified medical personnel should administer oxygen. Treat symptomatically and supportively as and when required. **Obtain medical advice if necessary.**
- **Skin contact:** 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.**
- **Eye contact:** Flush eyes with clean water for at least 15 – 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. **Seek medical attention immediately.**
- **Ingestion:** **Do not induce vomiting.** Seek medical attention or call a poison control centre for treatment advice. If the person is alert, rinse mouth thoroughly with water. Remove by gastric lavage and catharsis and give oxygen if respiration is depressed. Do not perform gastric lavage of patient is unconscious. Qualified medical personnel should perform administration of gastric lavage or oxygen.

ADVICE TO PHYSICIAN

There is no known antidote. Treat symptomatically and supportively as and when required. Gastric lavage or the administration of activated charcoal with water may be indicated.

Mode of Action:

CAMPATOP 225 EC contains bromoxynil, a hydroxybenzoxynil compound which belongs to HRAC group code 6. It is used for post-emergence control of annual broad leaf weeds. Bromoxynil acts by inhibiting photosynthetic electron transport and is a selective, contact herbicide, absorbed by the foliage, and has limited translocation abilities.

RESISTANCE WARNING

CAMPATOP 225 EC is a group code 6 herbicide. Any weed population may contain individuals naturally resistant to **CAMPATOP 225 EC** and other group code 6 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **CAMPATOP 225 EC** or any other group code 6 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

- When **CAMPATOP 225 EC** is mixed with **Agrazine 500 SC** the following **waiting periods** must be adhered to, before **Agrazine 500 SC** sensitive crops can be planted:

1 d/ha Agrazine 500 SC	6 months
2 d/ha Agrazine 500 SC	9 months

- The **waiting period** with the **CAMPATOP 225 EC** plus **Disgran 750 WDG** mixture before **Disgran 750 WDG** sensitive crops can be planted is as follows:

All types of cereals (Wheat, Barley and Oats)	6 months
Sweet and Bitter Lupines and Peas	9 months
Medics, Clover and Lucerne	11 months
All Other Crops	24 months

- A test planting is recommended. For more details, consult the **Agrazine 500 SC** and **Disgran 750 WDG** labels.
- When **CAMPATOP 225 EC** is used in a tank mixture with other herbicides, the relevant labels should be consulted and the **RE-CROPPING INTERVALS** on the respective labels should be adhered to. The re-cropping intervals refers to the waiting period that should lapse between application of **CAMPATOP 225 EC** in a tank mixture with different herbicides and the planting of follow-up crops, to prevent damage to the next crop.

- Do not apply to maize younger than the 4-leaf stage.
- Do not apply **CAMPATOP 225 EC** to weeds under drought or nutrient stress conditions.
- Do not apply when rain is expected within the following 12 hours.
- Irrigation should be withheld for 48 hours after **CAMPATOP 225 EC** application.

DIRECTIONS FOR USE: Use only as directed.

NOTICE TO USER:

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:

- **CAMPATOP 225 EC** is compatible with **AGRIZINE 500 SC** (L 5387 / W 130121), **Disgran 750 WDG**, **MCPA 400 SL**, **TOPIK® 240 EC** (L 4250), **Mortar 750 WSG**, **Cantron® 480 SC**, **Palladium 960 EC**, **Terbuweed 600 WDG**, **Alliante 600 WDG**, **TERBUSIEN SUPER 600 SC** (L 5435 / N-AR 1110) and **Platinum 960 EC**.
- The compatibility of **CAMPATOP 225 EC** with other products may be influenced by the formulation of the products involved, as well as the quality of the water.
- Since the formulation of other products may change and water quality may vary from farm to farm, a compatibility test should always be carried out prior to application.
- Consult your representative before mixing **CAMPATOP 225 EC** with other chemicals.
- If the products are physically compatible, this does **NOT** imply that they will be biologically compatible (effective against the target weed), thus the registration holder will not take responsibility for ineffective control in these scenarios.

Mixing instructions:

- Shake the container well before use.
- Half fill the spray tank with clean water and add the required amount of **CAMPATOP 225 EC**.
- Top up with water to the final required volume whilst maintaining agitation.
- When mixing **CAMPATOP 225 EC** with other registered herbicides, use the following procedure:
 - a) Mix the required quantity of **WDG** or **WP** products in a small quantity of water to make a smooth cream and add this to the spray mixture or add the water-soluble bags to the spray mixture.
 - b) In the following order add any additional products: **SC** or **SE** formulations, followed by **EC**, **EW** or **ME** formulations. Lastly add product of **SL**, **SG** or **SP** formulation types. Ensure to pre-mix products individually before adding them to the spray mixture.
- When **CAMPATOP 225 EC** is tank mixed with **Agризine 500 SC**, add the **Agризine 500 SC** to the water first. **CAMPATOP 225 EC** should then be added last, just before the required volume is reached.
- When **CAMPATOP 225 EC** is tank mixed with **Topik® 240 EC** the **CAMPATOP 225 EC** must be added first, well mixed and in suspension before **Topik® 240 EC** is added.
- If **CAMPATOP 225 EC** and **Disgran 750 WDG** is tank mixed, the **Disgran 750 WDG** must be well mixed and in suspension before **CAMPATOP 225 EC** is added. Then the surfactant must be added.
- Ensure thorough agitation of the mixture in the tank during mixing and spraying. Tank mixtures must be sprayed out immediately and not allowed to stand in the spray tank.

Post Spray Equipment Cleaning

Rinse the spray tank and all hoses with a 0.1% solution of either calcium chloride, 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.

Method of Application:

- Apply **CAMPATOP 225 EC** only to young actively growing weeds, i.e. weeds growing in moist soil. It is essential that all parts of the weeds be thoroughly covered by the herbicide spray (particularly the growing points in the leaf axils), to ensure effective control. In order to achieve this, the following application instructions must be adhered to.

Ground application: Conventional nozzles with hollow cone tips.

- **CAMPATOP 225 EC** alone, as well as in mixture with **Agrazine 500 SC**, **Topik® 240 EC** or **Disgran 750 WDG** can be applied with any high or medium volume sprayer equipped with an efficient agitation mechanism, provided that adequate coverage and even distribution will be obtained.
- Use a low spray pressure (100 to 300 kPa), so that **CAMPATOP 225 EC** is applied as a coarse droplet spray.
- **Do not apply under high pressure.**
- Ensure thorough coverage of the weeds, by using 200 to 350 litres of spray mixture per hectare. When the weed pressure is high use the higher spray volume.

Aerial application:

Aerial application of **CAMPATOP 225 EC** may only be done by a registered aerial application operator using a correctly calibrated, registered aircraft according to the instructions of SANS Code 10118 (Aerial Application of Agricultural Pesticides). Ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met:

- Volume: A spray mixture volume of 40 to 50 litres per hectare is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended above.
- Droplet coverage: 35 to 45 droplets per cm² must be recovered at the target area.
- Droplet size: A droplet spectrum with a VMD of 300 to 350 micron is recommended. Limit the production of fine droplets, less than 150 micron (high drift and evaporation potential), to a minimum.
- Flying height: Maintain the height of the spray boom at 3 to 4 meters above the target. Do not spray when aircraft dives, is in a climb or when banking.
- Use suitable atomizing equipment that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product. The spraying system must produce a droplet spectrum with the lowest possible Relative Span.
- Position all the atomizers within the inner 60 to 75 % of the wingspan to prevent droplets from entering the wingtip vortices.
- The difference in temperature between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8°C.
- Stop spraying if the wind speed exceeds 15 km per hour.
- Stop spraying under turbulent, unstable and dry conditions during the heat of the day.
- Spraying under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions (relative humidity 80 % and above) may lead to the following:
 - a) reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage),
 - b) damage to other sensitive crops and/or non-target areas through drifting of the suspended spray cloud away from the target field.
- Ensure that the aerial spray operator knows exactly which fields to spray.

Obtain an assurance from the aerial spray operator that the above requirements will be met and that relevant data will be compiled in a logbook and kept for future reference.

IMPORTANT

- Weeds that are overshadowed by other weeds or the crop may not be controlled, due to insufficient coverage. This aspect must be considered in the timing of application.
- To achieve optimum results with **CAMPATOP 225 EC**, also refer to “**IMPORTANT NOTES**”.

APPLICATION RATES

IMPORTANT NOTES TO CONSIDER BEFORE APPLICATION

1. Do not apply **CAMPATOP 225 EC** when the weeds are older than as specified, as this will result in poor weed control.
2. **CAMPATOP 225 EC** should not be applied following a sustained period of overcast / cloudy conditions (low light intensities) as this may result in increased leaf scorch.
3. **Do not** apply **CAMPATOP 225 EC** with any products that contain the active ingredient Parathion as this may lead to crop damage.

4. The use of **CAMPATOP 225 EC** in combination with wetting agents is not advisable as this may lead to crop damage.
5. When **CAMPATOP 225 EC** and **MCPA 400 SL** are applied as a tank mixture, application to wheat must be done between growth stages 7 and 13 according to the list of growth stages issued by the ARC-Small Grain Centre, Bethlehem. Barley should be sprayed when the crop is in the 5- to 6-leaf stage.
6. Avoid application when the weeds are covered with heavy dew or when the wind is blowing strongly.
7. Ensure thorough coverage of the weeds.
8. Weeds that have not germinated at the time of application, will not be controlled.
9. Poor weed control may result if **CAMPATOP 225 EC** is applied when the weeds are under moisture or other stress. Apply only during favourable climatic conditions when the weeds are actively growing.
10. Under certain climatic conditions **CAMPATOP 225 EC** may cause some leaf scorch to grain crops. However, yields will not be affected.
11. When **CAMPATOP 225 EC** is mixed with any other product, the information on the label of that product must be carefully consulted and the instructions followed. Consult the representative before **CAMPATOP 225 EC** is mixed with other chemicals.

1. **MAIZE**

1.1 **POST-EMERGENCE APPLICATION OF CAMPATOP 225 EC AS A SOLO PRODUCT FOR WEED CONTROL IN MAIZE.**

NOTES

- Apply when weeds are fully germinated, but not older than the 6-leaf stage. (**NOTE**: for **Problem weeds**, as listed in Table 6.1, not later than the 3-leaf stage).
- Spraying can be done by means of ground or aerial application.
- For aerial application use the higher rate only. Apply only when weather conditions favour active growth of weeds. Also note "**Method of Application**" above.

CAMPATOP 225 EC
1.5 to 2.0 l/ha

WEEDS CONTROLLED: Please consult table 6.1 for a list of weeds controlled.

1.2 **POST-EMERGENCE APPLICATION OF CAMPATOP 225 EC PLUS CANTRON® 480 SC PLUS TERBUWEED 600 WDG OR TERBUSIEN SUPER 600 SC IN MAIZE.**

NOTES

- This treatment can be applied as a post-emergence application or as a follow up to a pre-emergence application of **Cantron® 480 SC** in a tank mixture with **Palladium Plus 915 EC** or **Metolachlor 800 EC** or **Leap 840 EC**, as indicated on the registered labels.
- Apply this mixture post-emergence in the 2- to 6-leaf stage for broadleaf weeds, and 2- to 3-leaf stage for grass weeds.
- **Do not** add a wetting agent to any mixture containing **Bromoxynil**, as this may cause damage to the crop.
- Under certain climatic conditions **CAMPATOP 225 EC** may cause leaf scorch to grain crops. However, yields will not be affected.
- Refer to the **Cantron® 480 SC** and **Terbuweed 600 WDG** or **Terbusien Super 600 SC** labels for a list of additional weeds controlled by these products, as well as for **USE RESTRICTIONS** and **DIRECTIONS FOR USE**.
- Higher dosage rates of **Terbuweed 600 WDG** or **Terbusien Super 600 SC** may be applied for control of additional broadleaf weed species and longer residual control of broadleaf weeds. Refer to the **Terbuweed 600 WDG** or **Terbusien Super 600 SC** labels for **WARNINGS, PRECAUTIONS, ADDITIONAL WEEDS CONTROLLED, USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

CAMPATOP 225 EC 500 to 750 ml/ ha	PLUS		PLUS	
	Cantron® 480 SC 210 to 260 ml/ ha		Terbuweed 600 WDG 800 g / ha	OR Terbusien Super 600 SC 800 ml/ ha
WEEDS CONTROLLED				
Botanical name			Common name	
<i>Acanthospermum hispidum</i>			Upright starbur	
<i>Amaranthus hybridus</i>			Common pigweed	
<i>Bidens pilosa</i>			Common blackjack	
<i>Chenopodium album</i>			White goosefoot	
<i>Commelina benghalensis</i> *			Wandering jew	
<i>Datura ferox</i>			Large thorn apple	
<i>Galinsoga parviflora</i>			Gallant soldier	
<i>Portulaca oleracea</i>			Purslane	
<i>Richardia brasiliensis</i>			Mexican Richardia	
<i>Tagetes minuta</i>			Tall Khaki weed	
<i>Xanthium strumarium</i> *			Cocklebur	
Re-cropping intervals:				
Grain Sorghum, Sunflowers, Groundnuts, Soybeans, Potatoes, Dry beans, Forage sorghum and Small grains			9 months **	
Other crops not listed			24 months	
Maize & Sugarcane			None	

* Only at highest dosage rate.

** This withholding period is not applicable to the sandy soils of the Northwest Province and North Western Free State (which contains 0 to 10 % clay). The re-cropping interval should be extended to 12 months for Grain Sorghum and 18 months for the rest of the crops mentioned in this line.

1.3 POST-EMERGENCE APPLICATION OF CAMPATOP 225 EC PLUS CANTRON® 480 SC PLUS TERBUWEED 600 WDG OR TERBUSIEN SUPER 600 SC PLUS PALLADIUM 960 EC OR PLATINUM 960 EC IN MAIZE.

NOTES

- This treatment can be applied as a post-emergence application or as a follow up to a pre-emergence application of **Cantron® 480 SC** in tank mixture with **Palladium Plus 915 EC** or **Metolachlor 800 EC** or **Leap 840 EC** as indicated on the registered labels.
- Apply this mixture post-emergence in the 2- to 6-leaf stage for broadleaf weeds, and 2- to 3-leaf stage for grass weeds.
- **Do not** add a wetting agent to any mixture containing **Bromoxynil** as this may cause damage to the crop.
- Under certain climatic conditions **CAMPATOP 225 EC** may cause leaf scorch to grain crops. However, yields will not be affected.
- Refer to the **Palladium 960 EC** or **Platinum 960 EC**, **Cantron® 480 SC** and **Terbuweed 600 WDG** or **Terbusien Super 600 SC** labels for a list of additional weeds controlled by these products, as well as for **WARNINGS, PRECAUTIONS, ADDITIONAL WEEDS CONTROLLED, USE RESTRICTIONS** and **DIRECTIONS FOR USE**.
- Higher dosage rates of **Terbuweed 600 WDG** or **Terbusien Super 600 SC** may be applied for control of additional broadleaf weed species and longer residual control of broadleaf weeds. Refer to the **Terbuweed 600 WDG** or **Terbusien Super 600 SC** labels for **WARNINGS, PRECAUTIONS, USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

CAMPATOP 225 EC 500 mℓ / ha	PLUS Palladium 960 EC 400 to 520 mℓ / ha	PLUS Cantron® 480 SC 210 to 260 mℓ / ha	PLUS	
	OR Platinum 960 EC 600 to 800 mℓ / ha		Terbuweed 600 WDG 800 g / ha	OR Terbusien Super 600 SC 800 mℓ / ha
WEEDS CONTROLLED:				
Botanical name			Common name	
<i>Acanthospermum hispidium</i>			Upright starbur	
<i>Amaranthus hybridus</i>			Common pigweed	
<i>Bidens pilosa</i>			Common blackjack	
<i>Chenopodium album</i>			White goosefoot	
<i>Commelina benghalensis*</i>			Wandering jew	
<i>Cyperus esculentus*</i>			Yellow nutsedge	
<i>Digitaria sanguinalis</i>			Crab finger grass	
<i>Datura ferox</i>			Large thorn apple	
<i>Eleusine indica (africana)</i>			Goose grass	
<i>Galinsoga parviflora</i>			Gallant soldier	
<i>Emex australis**</i>			Spiny Emex	
<i>Richardia brasiliensis</i>			Mexican Richardia	
<i>Tagetes minuta</i>			Tall Khaki weed	
<i>Urochloa panicoides</i>			Herringbone grass / garden urochloa	
<i>Xanthium strumarium*</i>			Cocklebur*	
Re-cropping interval: Refer to table 1.2				

* Only at highest dosage rate.

** *Emex australis* needs 750 mℓ **CAMPATOP 225 EC** to be controlled.

2. MAIZE AND GRAIN SORGHUM

2.1 POST-EMERGENCE APPLICATION OF CAMPATOP 225 EC PLUS AGRIZINE 500 SC IN MAIZE AND GRAIN SORGHUM.

NOTES

- Apply when weather conditions favour active weed growth. Refer to “**USE RESTRICTIONS and Method of Application**” above, as well as “**IMPORTANT NOTES**” below.
- Apply when weeds are fully germinated, but not older than the 6-leaf stage (**NOTE**: for **Problem weeds**, as listed in Table 6.1, not later than the 3-leaf stage).
- For a longer residual effect use the higher **Agrizine 500 SC** rate.
- Spraying can be done by means of ground or aerial application.
- Use the higher dosage rate for aerial application or for ground application when the weed stand is very dense.
- Use the lower dosage rate only for ground application.
- Refer to the **Agrizine 500 SC** label for **WARNINGS, PRECAUTIONS, ADDITIONAL WEEDS CONTROLLED, USE RESTRICTIONS and DIRECTIONS FOR USE.**

CAMPATOP 225 EC 1.0 ℓ/ ha	PLUS
	Agrizine 500 SC 1.0 to 2.0 ℓ/ ha
WEEDS CONTROLLED: Please consult table 6.1 for a list of weeds controlled.	
Re-cropping intervals: Refer to “USE RESTRICTIONS” above	

2.2 POST-EMERGENCE APPLICATION OF CAMPATOP 225 EC PLUS MCPA 400 SL IN MAIZE AND GRAIN SORGHUM.

NOTES

- Refer to “**USE RESTRICTIONS and Method of Application**” above, as well as “**IMPORTANT NOTES**” below.
- Apply as ground or aerial spray when the weeds are fully emerged, but not older than the 6-leaf stage (**NOTE**: for **Problem weeds**, as listed in Table 6.1, not later than the 3-leaf stage).
- If the crop is taller than 40 cm, directed spraying is recommended so that better wetting of weeds is obtained. Apply when weather conditions favour active growth of weeds. Do not apply under cold, wet conditions as this may result in damage to the crop.
- Refer to the **MCPA 400 SL** label for **WARNINGS, PRECAUTIONS, ADDITIONAL WEEDS CONTROLLED, USE RESTRICTIONS and DIRECTIONS FOR USE.**

CAMPATOP 225 EC 1.5 ℓ/ ha	PLUS
	MCPA 400 SL (potassium salt) 1.0 ℓ/ ha
WEEDS CONTROLLED: Please consult table 6.1 for a list of weeds controlled.	

3. WHEAT

3.1 POST-EMERGENCE APPLICATION OF CAMPATOP 225 EC PLUS MCPA 400 SL FOR WEED CONTROL IN WHEAT.

NOTES

- Use the higher rate of **MCPA 400 SL** in the Eastern Free State when *Polygonum aviculare* is a problem.
- Apply within 14 days after good rain. Refer to “**USE RESTRICTIONS**”, **Method of Application**” “**IMPORTANT NOTES**” above.
- Refer to the **MCPA 400 SL** label for **WARNINGS, PRECAUTIONS, ADDITIONAL WEEDS CONTROLLED, USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

CAMPATOP 225 EC 1.5 ℓ/ha	PLUS
	MCPA 400 SL (potassium salt) 0.5 to 1.0 ℓ/ha
WEEDS CONTROLLED: Please consult table 6.1 for a list of weeds controlled.	

3.2 POST-EMERGENCE APPLICATION OF CAMPATOP 225 EC PLUS MORTAR 750 WSG IN WHEAT (Dry land).

NOTES

- Use the higher rate of **Mortar 750 WSG** for difficult-to-control weeds. Apply within 14 days after good rain.
- Refer to “**USE RESTRICTIONS**”, **Method of Application**” “**IMPORTANT NOTES**” above.
- Refer to the **Mortar 750 WSG** label for **WARNINGS, PRECAUTIONS, ADDITIONAL WEEDS CONTROLLED, USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

CAMPATOP 225 EC 1.5 ℓ/ha	PLUS
	Mortar 750 WSG 0.4 to 0.75 kg/ha
WEEDS CONTROLLED: Please consult table 6.1 for a list of weeds controlled.	

5.3 POST-EMERGENCE APPLICATION OF CAMPATOP 225 EC IN A TANK MIXTURE WITH ALLIANTE 600 WDG AND DISGRAN 750 WDG IN SUMMER RAINFALL AREA WHEAT UNDER DRYLAND CONDITIONS.

NOTES

- Apply as a post-emergence spray from the 2 to-5-leaf stages onwards, but before the crop canopies and after the weeds have emerged but have not exceeded the maximum recommended stage.
- Refer to the **Alliante 600 WDG** and **Disgran 750 WDG** label for **WARNINGS, PRECAUTIONS, ADDITIONAL WEEDS CONTROLLED, USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

CAMPATOP 225 EC 750 mL / ha	PLUS	
	Alliante 600 WDG 10 g / ha	Disgran 750 WDG 13 g / ha
Weeds controlled & maximum height at application (or size as indicated):		
<i>Amaranthus hybridus</i>	Common pigweed	6-leaf
<i>Capsella bursa-pastoris</i>	Shepherd's purse	4-leaf
<i>Chenopodium album</i>	White goosefoot	5 cm
<i>Erodium moschatum</i>	Musk heron's bill	4-leaf
<i>Polygonum aviculare</i>	Prostrate knotweed	5 cm ranks
<i>Raphanus raphanistrum</i>	Wild radish	3 to 4 leaves
<i>Rumex acetosella</i>	Sheep sorrel	6 leaf
<i>Senecio consanguineus</i>	Starvation Senecio	4 leaf
Re-cropping intervals: Refer to "USE RESTRICTIONS" above for the Disgran 750 WDG re-cropping interval.		

4. WHEAT, BARLEY AND OATS

4.1 POST-EMERGENCE APPLICATION OF CAMPATOP 225 EC SOLO WHEAT, BARLEY AND OATS.

NOTES

- Apply when the weeds are fully germinated, but not later than the 4- to 6-leaf stage (**Note:** for **Problem weeds**, as listed in Table 6.1, not later than the 3-leaf stage).
- Use the lower dosage rate for ground application and the higher dosage rate for aerial application and apply only when weather conditions favour active growth of weeds.
- In the Free State, application should take place within 14 days after good rain.
- Also note "**Method of Application**" above.

CAMPATOP 225 EC 1.5 to 2.0 L / ha
WEEDS CONTROLLED: Please consult table 6.1 for a list of weeds controlled.

4.2 POST-EMERGENCE APPLICATION OF CAMPATOP 225 EC IN A TANK MIXTURE WITH DISGRAN 750 WDG IN WHEAT, BARLEY AND OATS.

NOTES

- Apply only as a ground application.
- Use the low rate (0.6 litre per hectare) if *Emex australis* is in the cotyledon to 3-leaf stage.
- Use the higher dosage rate of **CAMPATOP 225 EC** (0.75 litre) in the Eastern Free State.
- Add a **Villa approved surfactant** to the spray mixture. Refer to the **Disgran 750 WDG** label for **WARNINGS, PRECAUTIONS, ADDITIONAL WEEDS CONTROLLED, USE RESTRICTIONS** and **DIRECTIONS FOR USE.**

CAMPATOP 225 EC 0.6 to 0.75 L / ha	PLUS	
	Disgran 750 WDG 13 g / ha	
WEEDS CONTROLLED: Please consult table 6.1 for a list of weeds controlled.		
Re-cropping intervals: Refer to "USE RESTRICTIONS" above		

4.3 POST-EMERGENCE APPLICATION OF CAMPATOP 225 EC IN A TANK MIXTURE WITH ALLIANTE 600 WDG IN WHEAT, BARLEY AND OATS.

NOTES

- Apply post emergence of weeds when wheat, oats or barley are in the 3- to 5-leaf stage.
- Refer to the **Alliante 600 WDG** label for **WARNINGS, PRECAUTIONS, ADDITIONAL WEEDS CONTROLLED, USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

CAMPATOP 225 EC 750 ml / ha	PLUS		
	Alliante 600 WDG 3.5 or 4.0 g / ha		
Weeds controlled & maximum height at application (or size as indicated):			
		3.5 g / ha	4.0 g / ha
<i>Chenopodium album</i>	White goosefoot	3.0 cm	5.0 cm
<i>Emex australis</i>	Spiny emex	3.0 cm diameter	5.0 diameter
<i>Galinsoga parviflora</i>	Gallant soldier	2.0 cm	3.0 cm
<i>Raphanus raphanistrum</i>	Wild radish	2 leaves	5.0 leaves
Re-cropping intervals:			
Wheat		1 month	
Barley & Oats		6 months	
Any other crops		10 months, preceded by a test	

5. LUCERNE

5.1 POST-EMERGENCE APPLICATION OF CAMPATOP 225 EC SOLO IN LUCERNE THAT IS UNDERSOWN IN GRAIN CROPS.

NOTES

- Follow the instructions given for wheat, barley, and oats above, but **do not** apply mixture with **MCPA 400 SL** or where clovers have been undersown with lucerne.

CAMPATOP 225 EC 1.5 to 2.0 l / ha
WEEDS CONTROLLED: Please consult table 6.1 for a list of weeds controlled.

5.2 POST-EMERGENCE APPLICATION OF CAMPATOP 225 EC SOLO IN LUCERNE THAT IS ESTABLISHED.

NOTES

- Apply after cutting the lucerne and after the weeds fully germinated, but not older than the 4- to 6-leaf stage. (**NOTE:** for **Problem weeds**, as listed in Table 6.1, not later than the 3-leaf stage).
- Use the higher dosage rate for aerial application, when the weed stand is very dense. Use the lower dosage rate only for ground application. Apply only when weather conditions favour active weed growth.

WARNING

- Yellowing of the lucerne leaves may occur after application, but this is of a temporary nature and will disappear after a few days, without affecting the crop.

CAMPATOP 225 EC

2.0 to 3.0 €/ha

WEEDS CONTROLLED: Please consult table 6.1 for a list of weeds controlled.**6. WEEDS CONTROLLED****6.1 WEED SPECIES NORMALLY CONTROLLED BY CAMPATOP 225 EC AT THE DOSAGE RATES AND CONDITIONS AS INDICATED.**

WEED SPECIES NORMALLY CONTROLLED	
Broad-leaved weed species:	
<i>Acanthospermum hispidum</i>	Upright starbur
<i>Amaranthus hybridus</i>	Cape pigweed
<i>Amaranthus spinosus</i>	Thorny pigweed
<i>Amaranthus thunbergii</i>	Red pigweed
<i>Amsinckia calycina</i>	Fiddle neck
<i>Anthemis cotula</i>	Stink mayweed
<i>Arcotheca calendula</i>	Cape marigold
<i>Argemone subfusiformis</i>	Mexican poppy
<i>Bidens pilosa</i>	Common blackjack
<i>Bilderdykia convolvulus</i>	Climbing knotweed
<i>Capsella bursa-pastoris</i>	Shepherd's purse
<i>Chenopodium album</i>	White goosefoot
<i>Chenopodium ambrosioides</i>	Wormseed goosefoot
<i>Chenopodium carinatum</i>	Green goosefoot
<i>Chenopodium multifidum</i>	Stinking goosefoot
<i>Chenopodium murale</i>	Nettle-leaved goosefoot
<i>Chenopodium schraderanum</i>	Schrader goosefoot
<i>Datura ferox</i>	Large thornapple
<i>Datura stramonium</i>	Common thornapple
<i>Emex australis</i> *	Spiney emex
<i>Flaveria bidentis</i>	Smelter's bush
<i>Galinsoga parviflora</i>	Small-flowered quick weed
<i>Helianthus annuus</i>	Sunflower
<i>Hibiscus trionium</i>	Hybiscus bladder
<i>Ipomoea purpurea</i>	Morning glory
<i>Lepidium bonariense</i>	Pepperweed
<i>Mellilotus indica</i>	Annual sweet yellow clover
<i>Nicandra physaloides</i>	Apple of Peru
<i>Physalis angulata</i>	Wild gooseberry
<i>Polygonum aviculare</i> *	Prostrate knotweed
<i>Raphanus raphanistrum</i> *	Wild radish
<i>Richardia brasiliensis</i>	Mexican Richardia
<i>Ricinus communis</i>	Castor oil
<i>Schkuhria pinnata</i>	Dwarf marigold
<i>Senecio burchelli</i>	Molteno disease Senecio
<i>Sida cordifolia</i>	Flannel weed
<i>Sisymbrium thellungii</i> *	Wild mustard
<i>Solanum nigrum</i>	Black nightshade
<i>Sonchus oleraceus</i>	Common sow thistle
<i>Tagetes minuta</i>	Tall khaki weed
<i>Tribulus terrestris</i> *	Common Devil's thorn
<i>Vicia hirsuta</i>	Common vetch
<i>Vicia sativa</i>	Tiny vetch
<i>Xanthium spinosum</i>	Spiny cocklebur
<i>Xanthium strumarium</i>	Cocklebur

* - Cotyledon to 3-leaf stage only.

WEED SUPPRESSED

The following weed is suppressed to a degree of 60 to 80 % with **CAMPATOP 225 EC** at the dosage rates and conditions as indicated.

Fumaria muralis

Fumitory

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

- **CANTRON® 480 SC** (L 8365 / N-AR 1323 / W 130651) = **ASTRON® 480 SC** (L 8366) = **CANONNE 480 SC** (L 8735) (**Mesotrione**),
- **MCPA 400 SL** (L 5793 / N-AR 1092) = **MCPA 400 SL** (L 5795 / W 130452),
- **PALLADIUM PLUS 915 EC** (L 9359) = **PENTIUM PLUS 915 EC** (L 9741) = **PARTISAN PLUS 915 EC** (L 9942) (**S-metolachlor**),
- **PALLADIUM 960 EC** (L 9360 / W 130772) = **PENTIUM 960 EC** (L 9830) = **PARTISAN 960 EC** (L 9964) (**S-metolachlor**),
- **LEAP 840 EC** (L 8064 / N-AR 1103) = **PREMIUM 840 EC** (L (**Acetochlor**),
- **DISGRAN 750 WDG** (L 7473) (**Triasulfuron**),
- **MORTAR 750 WSG** (L 9738) = **ROCKET 750 WSG** (L 9737) (**MCPA**),
- **TERBUWEED 600 WDG** (L 8800) = **TERBUCIDE 600 WDG** (L 8799) = **TERBUMAIS 600 WDG** (L 8798) (**Terbutylazine**),
- **ALLIANTE 600 WDG** (L 9917) = **ALTERATE 600 WDG** (L 9915) (**Metsulfuron-methyl**),
- **METOLACHLOR 800 EC** (L 7433) = **METOLACHLOR 800 EC** (L 7137) and
- **PLATINUM 960 EC** (L 7434) = **METOLACHLOR 960 EC** (L 7136 / W 130057 / N-AR 1362).

TOPIK® is a registered trademark of
Syngenta SA (Pty) Ltd.

CANONNE 480 SC are registered products of
CROP ASURE (PTY) LTD.

MCPA 400 SL, TRIASON 75 WDG, PENTIUM PLUS 915 EC, PENTIUM 960 EC, ROCKET 750 WSG, PREMIUM 840 EC, TERBUCIDE 600 WDG, ALTERATE 600 WDG, METOLACHLOR 800 EC TERBUMAIS 600 WDG, PARTISAN PLUS 915 EC, PARTISAN 960 EC and **METOLACHLOR 960 EC** are registered products of
UNIVERSAL CROP PROTECTION (PTY) LTD.

MCPA 400 SL, PALLADIUM PLUS 915 EC, PALLADIUM 960 EC, LEAP 840 EC, TERBUWEED 600 WDG, TERBUSIEN SUPER 600 SC, ALLIANTE 600 WDG, METOLACHLOR 800 EC, PLATINUM 960 EC, DISGRAN 750 WDG and **MORTAR 750 WSG** are registered products of
VILLA CROP PROTECTION (PTY) LTD.

CANTRON® 480 SC and **ASTRON® 480 SC** are registered trademarks of
VILLA CROP PROTECTION (PTY) LTD.

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