

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

SHAKE THE BOTTLE WELL BEFORE USE.

Herbicide



CRUX 425 SC

Reg. No. L 8325 Act/Wet No. 36 of/van 1947

4: 9/10/2018 – Oct2018

A suspension concentrate herbicide for selective control of most annual broadleaf weeds as well as Goose grass in crops as indicated.

'n Suspensie konsentraat onkruidodder vir selektiewe beheer van die meeste eenjarige breëblaaronkruides soos Jongosgras in gewasse soos aangedui.

ACTIVE INGREDIENTS / AKTIEWE BESTANDEDELE

atrazine (triazine)	300 g/l	atrasien (triasien)
sulcotrione (triketone)	125 g/l	sulkotrioon (triketoon)

HRAC HERBICIDE GROUP CODE **C1** HRAC ONKRUIDDODDER GROEPKODE

HRAC HERBICIDE GROUP CODE **F2** HRAC ONKRUIDDODDER GROEPKODE

GEBRUIKSAANWYSYNGS INGESLUIT

VERWYS NA BESONDERHEDE
GEDRUK OP HOUER/SAK

Date formulated:
Formuleringsdatum:

DIRECTIONS FOR USE ENCLOSED
REFER TO DETAILS PRINTED
ON CONTAINER/BAG

Batch number:
Lotnommer:



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

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UN Number: 3082



Willow Set & Print 011 394-4486



HARMFUL
SKADELIK



CRUX 425 SC

Reg. No. L 8325 Act/Wet No. 36 of/van 1947

HRAC HERBICIDE GROUP CODES / HRAC ONKRUIDDODER GROEPKODES: C1/F2

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Registration holder / Registrasiehouer:

VILLA CROP PROTECTION (PTY) LTD.

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

P.O. Box / Posbus 10413, ASTON MANOR, 1630

Tel. (011) 396 2233

**HARMFUL****SKADELIK****WARNINGS**

- Allow 70 days between last application and harvest of maize and sweet corn.
- Handle with care.
- May cause skin and eye irritation.
- May irritate the nose and throat.
- Store in a cool dry place, away from food, feeds, seed, fertilizer and other agricultural chemicals.
- Keep out of reach of children, uninformed persons and animals.
- Toxic to fish and aquatic organisms.
- Re-entry: Do not enter treated area within 1 day after treatment unless wearing protective clothing.
- In case of poisoning call a physician immediately and make this label available to him/her.

Aerial application:

Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue 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

- Do not inhale the spray mist.
- Avoid contact with skin and eyes.
- Wear protective rubber gloves and a face mask when handling the product and preparing the spray mixture.
- In case of eye contact, flush eyes immediately with clean running water, for at least 15 minutes.
- In case of skin contact, wash immediately with clean running water and do not rub the skin.
- Wash with soap and water after use and accidental skin contact.
- Wash contaminated clothing after use.
- Do not eat, drink or smoke while mixing and applying or before washing hands and face and changing clothing.
- Avoid drift onto other crops, grazing, rivers, dams or areas not under treatment or to nearby water sources.
- Do not mix and load within at least 15 metres from boreholes, streams, rivers and dams.
- Do not apply within at least 15 metres from boreholes, streams and rivers.
- Do not apply within at least 60 metres from dams.

- Ensure that no back-siphoning to boreholes or dams takes place where **Atrazine** is applied through the irrigation system.
- Thoroughly wash and rinse spray equipment after use and dispose of wash water where it will not contaminate food, grazing, rivers or dams, or areas not under treatment.
- Do not spray, drain or flush equipment on or near desirable trees or plants or to where their root systems may extend.
- **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 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 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.

SYMPTOMS OF HUMAN POISONING

Acute toxicity to this herbicide is expected to be low and no adverse effects from exposure have been reported. It can be absorbed orally, dermally and by inhalation. Symptoms of poisoning may include abdominal pain, diarrhoea and vomiting, eye and skin irritation and irritation of mucous membranes.

FIRST AID TREATMENT

- Skin contact: If irritation occurs, remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. If irritation persists, obtain medical attention.
- Eye contact: Immediately flush the contaminated eyes with gently flowing water for 20 minutes, holding the eyelid(s) open until no evidence of chemical remains. If irritation persists, obtain medical attention.
- Inhalation: Remove source of contamination or move victim to fresh air. Keep patient under observation and obtain medical attention if irritation persists.
- Ingestion: Have victim rinse mouth thoroughly with water. **Do not** induce vomiting. If necessary, obtain medical attention immediately.

NOTE TO PHYSICIAN

No signs and symptoms of poisoning are known or expected in humans. No specific antidote is available. Treat symptomatically and supportively when required. When large amounts have been ingested, consider gastric lavage or administer activated charcoal.

RESISTANCE WARNING

CRUX 425 SC is a group codes C1 and F2 herbicide. Any weed population may contain individuals naturally resistant to **CRUX 425 SC** and other group codes C1 and F2 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **CRUX 425 SC** or any other group codes C1 and F2 herbicides.

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

1. **Follow-on crops**: To avoid damage to follow-on crops, the following waiting periods should be adhered to:
 - Maize, Sweet corn and Sugarcane: 0 (Nil)
 - Grain sorghum: 1 month
 - Sunflowers, Groundnuts, Soybeans, Potatoes, Dry beans, Forage sorghum and Cotton: 3 months
 - **CRUX 425 SC plus Leap 840 EC**:
 - Sunflower: 4 months.
 - Wheat, Broccoli, Carrots, Lucerne, Cucurbits, Tobacco, Green beans, Peas (dosage less than 400 ml) and Green peppers: 4 months.
 - Other Small grains and Peas: 18 months.

- All Other Crops (a test planting is recommended): 24 months.

NOTE

The waiting periods mentioned are only valid if the correct amount of **CRUX 425 SC** has been applied and normal or above normal rains occurred during the season, and normal cultivation practices have been carried out.

2. Pre-emergence application - stubble from previous harvest or dead plant material (e.g. dead weeds) on the soil surface at the time of a pre-emergence application may have an adverse effect on weed control, especially when low rainfall figures were recorded. This adverse effect is thus not uncommon where minimum/no tillage practices are followed.
3. When a post-emergence application of **CRUX 425 SC** is anticipated, avoid:
 - stress conditions of weeds caused by drought, cold weather conditions, disease, insect damage, mineral element deficiencies and water logging,
 - application to weeds beyond the optimum growth stage,
 - application to weeds that are not actively growing.

Should one or more of these conditions prevail at the time of a **CRUX 425 SC** application, herbicidal efficacy may be reduced.

REMARKS

1. Factors affecting weed control:
 - The performance of **CRUX 425 SC** can be influenced by a number of factors which affect plant growth and therefore the herbicidal activity of the product. Factors such as soil pH, soil moisture, organic matter and weeds present may affect the residual action of the herbicide.
 - Continual overcast and rainy conditions after a post-emergence application may reduce the efficacy of the product.
 - In areas with a high soil organic matter content the period of weed control may be shorter than indicated on the table.

The period (weeks) of weed control given in the tables is only an indication and may be affected by climatic and soil conditions, as well as by cultivation practices. Eight weeks' control in most cases may be considered full season control.

DIRECTIONS FOR USE: Use only as indicated.

Unlike other residual herbicides the rate of **CRUX 425 SC** is not influenced by the clay content of the soil.

MAIZE AND SWEET CORN: (excluding the super sweet cultivars)

1. General:

- Do not add additional **Atrazine** to **CRUX 425 SC** as this will have a detrimental effect on the efficacy of **CRUX 425 SC**.
- Apply **CRUX 425 SC** in a herbicide programme as a pre-emergence or early post-emergence spray to the weeds and crop as indicated below.
- When **CRUX 425 SC** alone or **CRUX 425 SC** in mixture with **Platinum 960 EC** is applied post-emergence, the addition of **Villa 51** at a rate of 100 ml per 100 litres spray mixture is recommended.
- The addition of **Villa 51** may cause temporary yellowing of maize when applied before the 4-leaf stage.
- When **CRUX 425 SC**, or **CRUX 425 SC** plus **Platinum 960 EC**, is applied after cultivation, when no weeds are present, the addition of **Villa 51** is not necessary.
- When **CRUX 425 SC** is applied post-emergence, for difficult to control weeds, e.g. *Tribulus terrestris* and *Ipomoea purpurea*, the addition of **Campatop® 225 EC** at a rate of 450 ml per hectare is strongly recommended (maize and sweet corn only).
- **Cultivars:**
 - **CRUX 425 SC** can be applied to all maize cultivars that are currently being planted.
 - **CRUX 425 SC** can be applied to the following sweet corn cultivars: Commander, Dynasty, Excellency, Jubilee RR, Melody, More, Napier, Rival, Shieldcrest and Sweety 82.
- **Use in maize and sweet corn:**
 - During a post-emergence application, the crop must be at least in the 4-leaf stage.
 - If very cold and wet weather conditions prevail during application or immediately thereafter, chlorosis may occur, but this will not affect the yield.

2. Pre-emergence application - CRUX 425 SC plus Leap 840 EC:

- **EPTC Plus 720 EC** can be applied pre-plant incorporated followed by **CRUX 425 SC** in a tank mixture with **Leap 840 EC**. Refer to the labels of the respective products for **USE RESTRICTIONS** and **DIRECTIONS FOR USE**.
- Apply during, or immediately after, planting onto a well-prepared seedbed, free of clods and with an even surface.
- Optimal weed control is obtained when application is followed by at least 10 to 20 mm of soft penetrating rain or irrigation within 7 to 10 days after application to leach the herbicide into the soil.

3. Post-emergence application:

- **CRUX 425 SC** can be applied post-emergence for the control of broadleaf weeds and certain grasses, provided that these weeds are in the correct growth stage (see Tables 3 and 4) and no adverse conditions prevail, such as drought stress, water logging, low temperature or continuously overcast weather at time of application.
- If the above mentioned option is not used, it is recommended that **2,4-D Amine 480 SL** (480 g ai/l) at 250 ml per hectare to be added to **CRUX 425 SC** plus **Villa 51**. However, if **Villa 51** is not added, the **2,4-D Amine 480 SL** rate must be increased to 500 ml per hectare (maize only).
- When **Platinum 960 EC** or **Palladium 960 EC** is recommended to be tank mixed with **CRUX 425 SC** plus **Villa 51**, it is recommended that 250 ml **2,4-D Amine 480 SL** be added and if **Villa 51** is not used, the rate of **2,4-D Amine 480 SL** should be increased to 500 ml per hectare (maize only).

Maize and sweet corn:

- Add **Villa 51** at 100 ml per 100 litres spray mixture. The addition of **Villa 51** may cause temporary yellowing of the maize when applied before the 4-leaf stage.
- The addition of **Campatop® 225 EC** at a rate of 450 ml per hectare is strongly recommended for the control of *Ipomoea purpurea* (Common morning glory) and *Tribulus terrestris* (dubbeltjie) (maize and sweet corn only).

NOTE – do not mix Villa 51 with Campatop® 225 EC since this may cause serious crop damage.

- The use of **EPTC Plus 720 EC** pre-plant is recommended where Yellow and Purple nutsedge and grasses, including wild sorghum, are problems.
- **Leap 840 EC** at planting is recommended if grasses are a problem, followed with **CRUX 425 SC** as an early post-emergence application to control the broadleaf weeds. Weeds which are beyond the optimum growth stage at time of application will not be controlled.

Compatibility:

CRUX 425 SC is compatible with:

- **Villa 51, Leap 840 EC, Platinum Plus 915 EC, Palladium Plus 915 EC, Platinum 960 EC, Palladium 960 EC, Campatop® 225 EC, EPTC PLUS 720 EC (L 4504, N-AR 1095), 2,4-D Amine 480 SL, Commodobuff and Molybdenum.**

Quality of dilution water:

- Use only water of a high quality and low soluble salt content.
- Buffer with **Commodobuff** as required.

Mixing instructions:

- Fill the spray tank three quarters with clean water.
- Add the required amount of **Commodobuff** followed by the correct quantity **CRUX 425 SC**.
- Fill the spray tank with water to the required volume whilst agitating continuously.
- In tank mixtures with **Leap 840 EC, Platinum Plus 915 EC, Palladium Plus 915 EC, Platinum 960 EC, Palladium 960 EC, 2,4-D Amine 480 SL** and **Campatop® 225 EC**, do not mix concentrates.
- Fill the spray tank three quarters with clean water and add the required amount of **Commodobuff**.
- First mix each product that is going to be used with a small amount of water in separate containers.
- Then firstly add the **CRUX 425 SC** to the spray tank, then **2,4-D Amine 480 SL** followed by **Leap 840 EC / Platinum Plus 915 EC / Palladium Plus 915 EC / Platinum 960 EC / Palladium 960 EC / Campatop® 225 EC**.

- Fill the tank with water to the required volume and ensure thorough and continuous agitation during the mixing process.

NOTE

- Ensure that thorough agitation of the spray mixture is maintained at all times.
- Under no circumstances should unused spray mixture be allowed to stand overnight.

Application:

CRUX 425 SC can be applied post-emergence of crop and weeds. When applying **CRUX 425 SC** post-emergence the weeds must be at the correct growth stage (refer Tables 3 to 10).

Ground application:

- Band and tramline applications: ensure that the correct quantity of **CRUX 425 SC** and spray volume is applied per unit area. Calibrations in such instances should be based on the recommended amount of **CRUX 425 SC** per hectare (10 000 m²) calculated according to the actual area to be sprayed.
- Apply by means of a correctly calibrated tractor mounted boom sprayer to deliver at least 200 to 300 litres spray mixture per hectare, at a constant speed and pressure (200 to 300 kPa), to ensure even distribution. Avoid overlapping of spray swaths to prevent over-application.

Aerial application:

Aerial application of **CRUX 425 SC** and **Leap 840 EC** on their own, or in tank mixture, 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:

- Mixing instructions must be followed.
- When **CRUX 425 SC** is applied post-emergence at the 2- to 4-leaf stage of weeds, **Villa 51** must be added at 0.5 litre per hectare per 30 litres water.
- The dosage rates as listed in the tables may be increased by 10 %.
- Volume: A spray mixture volume of 30 to 35 litres per hectare is recommended post-emergence. 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: The following number of droplets per cm² must be recovered at the target area: Post-emergence - 35 to 45.
- Droplet size: The following droplet spectra are recommended: Post-emergence - VMD of 300 to 350 micron. 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 metres above the target. Do not spray when aircraft dives, is in a climb or when banking.
- Use suitable atomising 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 atomisers 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.

WARNING

2,4-D AMINE 480 SL IS NOT RECOMMENDED FOR AERIAL APPLICATION WITH CRUX 425 SC OR CRUX 425 SC PLUS LEAP 840 EC / PLATINUM PLUS 915 EC / PALLADIUM PLUS 915 EC / PLATINUM 960 EC / PALLADIUM 960 EC TANK MIXTURES.

APPLICATION RATES

Table content for use of CRUX 425 SC and other products in maize and sweet corn:

Table no.	Table heading
1.1	Leap 840 EC dosages according to clay %.
1.2	CRUX 425 SC plus Leap 840 EC or Platinum Plus 915 EC or Palladium Plus 915 EC dosage rates applied pre-emergence.
2	EPTC Plus 720 EC dosages, pre-plant incorporated, according to clay %.
3.1 to 3.5	CRUX 425 SC plus Villa 51 spray mixture applied post-emergence of weeds. Maize and sweet corn only.
4.1 to 4.4	Leap 840 EC (Table 1), applied pre-emergence w.r.t. maize, sweet corn and weeds, followed with CRUX 425 SC plus Villa 51 spray mixture early post-emergence of weeds.
5.1 to 5.3	Leap 840 EC applied pre-emergence of maize, sweet corn and weeds, followed with CRUX 425 SC plus Villa 51 (100 ml per 100 litres water) spray mixture applied post-emergence of weeds. No cultivation. Grasses at 1- to 2-leaf stage and broadleaved weeds at 2- to 4-leaf stage.
6.1 to 6.3	Leap 840 EC (Table 1) applied pre-emergence of maize, sweet corn and weeds, followed with CRUX 425 SC plus Platinum 960 EC or Palladium 960 EC plus Villa 51 at 100 ml per 100 litres spray mixture, applied post-emergence of weeds (2- to 4-leaf stage). No cultivation.
7	EPTC Plus 720 EC pre-plant incorporated (Table 2), followed with CRUX 425 SC plus Villa 51 at 100 ml per 100 litres spray mixture, applied post-emergence of weeds (2- to 4-leaf stage). No cultivation. Only maize and sweet corn.
8.1 to 8.2	EPTC Plus 720 EC pre-plant incorporated (Table 2) followed by cultivation and followed with Leap 840 EC plus CRUX 425 SC plus Villa 51 at 100 ml per 100 litres spray mixture, applied post-emergence of weeds. No cultivation.
9.1 to 9.3	CRUX 425 SC plus Campatop® 225 EC tank mixture, applied post-emergence of maize and sweet corn (1- to 6-leaf stage of weeds).
10	Leap 840 EC pre-emergence of maize, sweet corn and weeds, followed with CRUX 425 SC plus Campatop® 225 EC . No cultivation and at 1- to 6-leaf stage of weeds.

TABLE 1.1: Leap 840 EC dosages according to clay %. Dosages below must be used where Leap 840 EC is applied on its own pre-emergence.

Clay %	Leap 840 EC Dosage (ℓ / ha)
0 to 10	0.6 to 1.4
11 to 15	0.8 to 1.8
16 to 20	0.9 to 1.8
21 to 30	1.2 to 2.0
31 to 40	1.4 to 2.3
40 +	2.3

Refer to the Leap 840 EC label for complete information.

TABLE 1.2: CRUX 425 SC plus Leap 840 EC or Platinum Plus 915 EC or Palladium Plus 915 EC dosage rates applied pre-emergence.

CRUX 425 SC Dosage (ℓ / ha)	PLUS Leap 840 EC Dosage (ℓ / ha)	OR Platinum Plus 915 EC Dosage (ℓ / ha)	OR Palladium Plus 915 EC Dosage (ℓ / ha)
0.8 to 1.2	0.75 to 1.0	1.0 to 1.85	0.65 to 1.2

- Use the higher dosage rates on soils with higher clay/organic matter content, or where weed pressure is higher and/or extended residual action is required.
- Refer to Tables 3 and 4 below for an indication of weeds that will be controlled at different dosage rates. Weeds controlled at specific dosage rates in tank mixture with Leap 840 EC.
- Refer to the Leap 840 EC, Platinum Plus 915 EC or Palladium Plus 915 EC label for complete information.

TABLE 2: EPTC Plus 720 EC dosages according to clay % pre-plant incorporated (ppi).

Clay %	EPTC Plus 720 EC Dosage (ℓ / ha)
0 to 10	2.0
11 to 15	2.5
16 to 20	3.0
21 to 25	3.5
26 to 30	4.0

Refer to the EPTC Plus 720 EC label for complete information.

TABLE 3: CRUX 425 SC plus Villa 51 at 100 ml per 100 litres spray mixture applied post-emergence of the weeds - maize and sweet corn only:**Table 3.1:**

Dosage	Weeds controlled		Weed leaf stage
	Botanical name	Common name	
800 ml / ha CRUX 425 SC PLUS Villa 51 (100 ml / 100 ℓ) post-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed	2 to 4
	<i>Amaranthus hybridus</i>	Cape pigweed	2 to 4
	<i>Chenopodium album</i>	White goosefoot	2 to 4
	<i>Chloris virgata</i>	Feathertop Chloris	1 to 2
	<i>Datura ferox</i>	Large thorn apple	2 to 4
	<i>Hibiscus trionum</i>	Bladderweed	2 to 4
	<i>Nicandra physaloides</i>	Apple of Peru	2 to 4
	<i>Schkuhria pinnata</i>	Dwarf marigold	2 to 4
	<i>Spermacoce senensis</i>	Spike leaf	2 to 4
	<i>Tagetes minuta</i>	Khaki weed	2 to 4

Table 3.2:

Dosage	Weeds controlled Above-mentioned plus:		Weed leaf stage
	Botanical name	Common name	
1.0 ℓ / ha CRUX 425 SC PLUS Villa 51 (100 ml / 100 ℓ) post-emergence	<i>Eleusine indica</i>	Goose grass	1 to 3
	<i>Hibiscus cannabinus</i>	Kenaf	2 to 4
	<i>Physalis angulata</i>	Wild gooseberry	2 to 4

Table 3.3:

Dosage	Weeds controlled Above-mentioned plus:		Weed leaf stage
	Botanical name	Common name	
1.2 ℓ / ha CRUX 425 SC PLUS Villa 51 (100 ml / 100 ℓ) post-emergence	<i>Bidens bipinnata</i>	Spanish black jack	2 to 4
	<i>Bidens formosa</i>	Cosmos	1 to 2
	<i>Digitaria sanguinalis</i>	Crab fingergrass	1 to 3
	<i>Galinsoga parviflora</i>	Gallant soldier	2 to 4
	<i>Lepidium bonariense</i>	Pepper cress	2 to 4
	<i>Portulaca oleracea</i>	Purslane	2 to 4
	<i>Urochloa panicoides</i>	Herringbone grass	1 to 2

Table 3.4:

Dosage	Weeds controlled Above-mentioned plus:		Weed leaf stage
	Botanical name	Common name	
1.4 ℓ / ha CRUX 425 SC PLUS Villa 51 (100 ml / 100 ℓ) post-emergence	<i>Acanthospermum hispidum</i>	Upright starbur	2 to 4
	<i>Amaranthus spinosus</i>	Thorny pigweed	2 to 4
	<i>Cleome monophylla</i>	Spindlepod	2 to 4
	<i>Cleome rubella</i>	Pretty lady	2 to 4
	<i>Commelina benghalensis</i>	Benghal wandering Jew	2 to 4
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria	2 to 4
	<i>Emex australis</i>	Spiny Emex	2 to 4
	<i>Euphorbia chamaesyce</i>	Hairy creeping milkweed	2 to 4
	<i>Ipomoea coscinosperma</i>	---	2 to 4
	<i>Solanum nigrum</i>	Deadly nightshade	2 to 4
	<i>Xanthium spinosum</i>	Spiny cocklebur	2 to 4
	<i>Xanthium strumarium</i>	Cocklebur	2 to 4

Table 3.5:

Dosage	Weeds controlled Above-mentioned plus:		Weed leaf stage
	Botanical name	Common name	
1.6 ℓ / ha CRUX 425 SC PLUS Villa 51 (100 ml / 100 ℓ) post-emergence	<i>Amaranthus thunbergii</i>	Red pigweed	2 to 4
	<i>Argemone subfusiformis</i>	White flowered Mexican poppy	1 to 3
	<i>Chenopodium carinatum</i>	Green goosefoot	2 to 4
	<i>Citrullus lanatus</i>	Wild watermelon	1 to 6
	<i>Datura stramonium</i>	Thorn apple	2 to 4
	<i>Gisekia pharmaceoides</i>	Gisekia	2 to 4
	<i>Polygonium aviculare</i>	Prostrate knotweed	2 to 4
	<i>Richardia brasiliensis</i>	Tropical Richardia	2 to 4
	<i>Sida cordifolia</i>	Heartleaf Sida	2 to 4
	Suppression of <i>Cyperus esculentus</i>	Yellow nutsedge	1 to 2

TABLE 4: Leap 840 EC (Table 1) applied pre-emergence of maize, sweet corn and weeds, followed by **CRUX 425 SC** plus **Villa 51** at 100 ml per 100 litres spray mixture, applied early post-emergence of weeds (1- to 4-leaf stage of weeds).**Table 4.1:**

Dosage	Weeds controlled	
	Botanical name	Common name
Leap 840 EC (Table 1) pre-emergence FOLLOWED WITH 800 ml / ha CRUX 425 SC PLUS Villa 51 (100 ml / 100 ℓ) early post-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed
	<i>Amaranthus hybridus</i>	Cape pigweed
	<i>Amaranthus spinosus</i>	Thorny pigweed
	<i>Chenopodium album</i>	White goosefoot
	<i>Chloris virgata</i>	Feathertop Chloris
	<i>Datura ferox</i>	Large thorn apple
	<i>Hibiscus trionum</i>	Bladderweed
	<i>Nicandra physaloides</i>	Apple of Peru
	<i>Schkuhria pinnata</i>	Dwarf marigold
	<i>Spermacoce senensis</i>	Spike leaf
	<i>Tagetes minuta</i>	Khaki weed

Table 4.2:

Dosage	Weeds controlled Above-mentioned plus:	
	Botanical name	Common name
Leap 840 EC (Table 1) pre-emergence FOLLOWED WITH 1.2 ℓ / ha CRUX 425 SC PLUS Villa 51 (100 ml / 100 ℓ) early post-emergence	<i>Bidens bipinnata</i>	Spanish black jack
	<i>Bidens formosa</i>	Cosmos
	<i>Brachiaria eruciformis</i>	Sweet signal grass
	<i>Chenopodium carinatum</i>	Green goosefoot
	<i>Cleome monophylla</i>	Spindlepod
	<i>Citrullus lanatus</i>	Wild watermelon
	<i>Digitaria sanguinalis</i>	Crab fingergrass
	<i>Eleusine indica</i>	Goose grass
	<i>Galinsoga parviflora</i>	Gallant soldier
	<i>Hibiscus cannabinus</i>	Kenaf
	<i>Lepidium bonariense</i>	Pepper cress
	<i>Panicum maximum</i>	Common buffalo grass
	<i>Panicum schinzii</i>	Sweet buffalo grass
	<i>Physalis angulata</i>	Wild gooseberry
	<i>Portulaca oleracea</i>	Purslane
	<i>Setaria pallide-fusca</i>	Red bristle grass
	<i>Urochloa panicoides</i>	Herringbone grass

Table 4.3:

Dosage	Weeds controlled Above-mentioned plus:	
	Botanical name	Common name
Leap 840 EC (Table 1) pre-emergence FOLLOWED WITH 1.4 ℓ / ha CRUX 425 SC PLUS Villa 51 (100 ml / 100 ℓ) early post-emergence	<i>Acanthospermum hispidum</i>	Upright starbur
	<i>Cleome rubella</i>	Pretty lady
	<i>Conyza sumatrensis</i>	Tall fleabane
	<i>Commelina benghalensis</i>	Benghal wandering Jew
	<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria
	<i>Cucumis myriocarpus</i>	Striped wild cucumber
	<i>Datura stramonium</i>	Thorn apple
	<i>Emex australis</i>	Spiny Emex
	<i>Euphorbia chamaesyce</i>	Hairy creeping milkweed
	<i>Hibiscus trionum</i>	Bladderweed
	<i>Ipomoea coscinosperma</i>	---
	<i>Physalis angulata</i>	Wild gooseberry
	<i>Solanum nigrum</i>	Deadly nightshade
	<i>Tribulus terrestris</i>	Dubbeltjie
	<i>Xanthium spinosum</i>	Spiny cocklebur
<i>Xanthium strumarium</i>	Cocklebur	

Table 4.4:

Dosage	Weeds controlled Above-mentioned plus:	
	Botanical name	Common name
Leap 840 EC (Table 1) pre-emergence FOLLOWED WITH 1.6 ℓ / ha CRUX 425 SC PLUS Villa 51 (100 ml / 100 ℓ) early post-emergence	<i>Amaranthus thunbergii</i>	Red pigweed
	<i>Argemone subfusiformis</i>	White flowered Mexican poppy
	<i>Bidens pilosa</i>	Black jack
	<i>Cleome rubella</i>	Pretty lady
	<i>Conyza sumatrensis</i>	Tall fleabane
	<i>Gisekia pharnaceiodes</i>	Gisekia
	<i>Polygonum aviculare</i>	Prostrate knotweed
	<i>Richardia brasiliensis</i>	Tropical richardia
	<i>Sida cordifolia</i>	Heartleaf sida
	Suppression of <i>Cyperus esculentus</i>	Yellow nutsedge

TABLE 5: Leap 840 EC (Table 1) applied pre-emergence of maize, sweet corn and weeds, followed by CRUX 425 SC plus Villa 51 at 100 ml per 100 litres spray mixture applied post-emergence of weeds, no cultivation. Grasses at 1- to 2-leaf stage and broadleaf weeds at 2- to 4-leaf stage.

Table 5.1:

Dosage	Weeds controlled	
	Botanical name	Common name
450 ml / ha Leap 840 EC pre-emergence FOLLOWED WITH 600 ml / ha CRUX 425 SC PLUS Villa 51 (100 ml / 100 ℓ) post-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed
	<i>Amaranthus hybridus</i>	Cape pigweed
	<i>Chloris virgata</i>	Feathertop Chloris
	<i>Datura ferox</i>	Large thorn apple
	<i>Digitaria sanguinalis</i>	Crab fingergrass
	<i>Hibiscus trionum</i>	Bladderweed
	<i>Nicandra physaloides</i>	Apple of Peru
	<i>Schkuhria pinnata</i>	Dwarf marigold
	<i>Spermacoce senensis</i>	Spike leaf
	<i>Tagetes minuta</i>	Khaki weed

Table 5.2:

Dosage	Weeds controlled Above-mentioned plus:	
	Botanical name	Common name
1.4 ℓ / ha Leap 840 EC pre-emergence FOLLOWED WITH 1.2 ℓ / ha CRUX 425 SC PLUS Villa 51 (100 ml / 100 ℓ) post-emergence	<i>Bidens bipinnata</i>	Spanish black jack
	<i>Bidens formosa</i>	Cosmos
	<i>Chenopodium album</i>	White goosefoot
	<i>Eleusine indica</i>	Goose grass
	<i>Galinsoga parviflora</i>	Gallant soldier
	<i>Hibiscus cannabinus</i>	Kenaf
	<i>Lepidium bonariense</i>	Pepper cress
	<i>Physalis angulata</i>	Wild gooseberry
	<i>Portulaca oleracea</i>	Purslane
	<i>Triumfetta speculosa</i>	---
	<i>Urochloa panicoides</i>	Herringbone grass

Table 5.3:

Dosage	Weeds controlled Above-mentioned plus:	
	Botanical name	Common name
2.1 ℓ / ha Leap 840 EC pre-emergence FOLLOWED WITH 1.2 ℓ / ha CRUX 425 SC PLUS Villa 51 (100 ml / 100 ℓ) post-emergence	<i>Panicum maximum</i>	Common buffalo grass

TABLE 6: Leap 840 EC (Table 1) applied pre-emergence of maize, sweet corn and weeds, followed with CRUX 425 SC plus Platinum 960 EC or Palladium 960 EC plus Villa 51 at 100 ml per 100 litres spray mixture, applied post-emergence of weeds (2- to 4-leaf stage). No cultivation.

Table 6.1:

Dosage	Weeds controlled	
	Botanical name	Common name
Leap 840 EC (Table 1) pre-emergence FOLLOWED WITH 400 ml / ha CRUX 425 SC PLUS 660 ml / ha Platinum 960 EC OR 430 ml / ha Palladium 960 EC PLUS Villa 51 (100 ml / 100 ℓ) post-emergence	<i>Amaranthus hybridus</i>	Common pigweed
	<i>Amaranthus spinosus</i>	Thorny pigweed
	<i>Bidens pilosa</i>	Common blackjack
	<i>Chenopodium album</i>	White goosefoot
	<i>Chloris virgata</i>	Feathertop Chloris
	<i>Commelina benghalensis</i>	Benghal wandering Jew
	<i>Datura ferox</i>	Large thorn apple
	<i>Datura stramonium</i>	Thorn apple
	<i>Digitaria sanguinalis</i>	Crab fingergrass
	<i>Eleusine indica</i>	Goose grass
	<i>Galinsoga parviflora</i>	Gallant soldier
	<i>Panicum schinzii</i>	Sweet buffalo grass
	<i>Portulaca oleracea</i>	Purslane
	<i>Setaria verticillata</i>	Sticky bristle grass
	<i>Solanum aculeatissimum</i>	---
	<i>Tagetes minuta</i>	Khaki weed
	<i>Triumfetta speculosa</i>	---
	<i>Urochloa panicoides</i>	Herringbone grass

Table 6.2:

Dosage	Weeds controlled Above-mentioned plus:	
	Botanical name	Common name
Leap 840 EC (Table 1) pre-emergence FOLLOWED WITH 600 ml / ha CRUX 425 SC PLUS 660 ml / ha Platinum 960 EC OR 430 ml / ha Palladium 960 EC PLUS Villa 51 (100 ml / 100 l) post-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed
	<i>Hibiscus trionum</i>	Bladderweed
	<i>Schkuhria pinnata</i>	Dwarf marigold
	<i>Spermacoce senensis</i>	Spike leaf

Table 6.3:

Dosage	Weeds controlled Above-mentioned plus:	
	Botanical name	Common name
Leap 840 EC (Table 1) pre-emergence FOLLOWED WITH 1.0 l / ha CRUX 425 SC PLUS 800 ml / ha Platinum 960 EC OR 520 ml / ha Palladium 960 EC PLUS Villa 51 (100 ml / 100 l) post-emergence	<i>Cyperus esculentus</i>	Yellow nutsedge

TABLE 7: EPTC Plus 720 EC pre-plant incorporated (Table 2), followed with CRUX 425 SC plus Villa 51 at 100 ml per 100 litres spray mixture, applied post-emergence of weeds (2- to 4-leaf stage). No cultivation. Only maize and sweet corn.

Dosage	Weeds controlled	
	Botanical name	Common name
EPTC Plus 720 EC (ppi, Table 2) FOLLOWED WITH 800 ml / ha CRUX 425 SC PLUS Villa 51 (100 ml / 100 l) post-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed
	<i>Amaranthus hybridus</i>	Common pigweed
	<i>Brachiaria eruciformis</i>	Sweet signal-grass
	<i>Chenopodium album</i>	White goosefoot
	<i>Chloris pycnothrix</i>	Spiderweb Chloris
	<i>Chloris virgata</i>	Feathertop Chloris
	* <i>Cyperus esculentus</i>	Yellow nutsedge
	* <i>Cyperus rotundus</i>	Purple nutsedge
	<i>Datura ferox</i>	Large thorn apple
	<i>Datura stramonium</i>	Thorn apple
	<i>Digitaria sanguinalis</i>	Crab fingergrass
	<i>Eleusine indica</i>	Goose grass
	<i>Hibiscus trionum</i>	Bladderweed
	<i>Nicandra physaloides</i>	Apple of Peru
	<i>Panicum schinzii</i>	Sweet buffalo grass
	<i>Portulaca oleracea</i>	Purslane
	<i>Schkuhria pinnata</i>	Dwarf marigold
	<i>Setaria palide-fusca</i>	Red bristle grass
	<i>Setaria verticillata</i>	Sticky bristle grass
	* <i>Sorghum bicolor</i>	Wild grain sorghum
	* <i>Sorghum halepense</i>	Johnson grass
	* <i>Sorghum verticilliflorum</i>	Common wild sorghum
	<i>Spermacoce senensis</i>	<i>Spike leaf</i>
<i>Tagetes minuta</i>	<i>Khaki weed</i>	
<i>Tragus racemosus</i>	<i>Large carrotseed grass</i>	
<i>Urochloa panicoides</i>	<i>Herringbone grass</i>	
<i>Xanthium strumarium</i>	<i>Cocklebur</i>	

* Weeds will only be controlled for 8 weeks after application of EPTC Plus 720 EC.

TABLE 8: EPTC Plus 720 EC pre-plant incorporated (Table 2), followed by cultivation, and followed with Leap 840 EC plus CRUX 425 SC plus Villa 51 at 100 ml per 100 litres spray mixture, applied post-emergence of weeds. No cultivation.

Table 8.1:

Dosage	Weeds controlled	
	Botanical name	Common name
EPTC Plus 720 EC (ppi, Table 2) FOLLOWED WITH 570 ml / ha Leap 840 EC PLUS 800 ml / ha CRUX 425 SC PLUS Villa 51 (100 ml / 100 l) post-emergence	<i>Amaranthus deflexus</i>	Perennial pigweed
	<i>Amaranthus hybridus</i>	Common pigweed
	<i>Brachiaria eruciformis</i>	Sweet signal-grass
	<i>Chenopodium album</i>	White goosefoot
	<i>Chloris pycnothrix</i>	Spiderweb Chloris
	<i>Chloris virgata</i>	Feathertop Chloris
	* <i>Cyperus esculentus</i>	Yellow nutsedge
	* <i>Cyperus rotundus</i>	Purple nutsedge
	<i>Datura ferox</i>	Large thorn apple
	<i>Datura stramonium</i>	Thorn apple
	<i>Digitaria sanguinalis</i>	Crab fingergrass
	<i>Eleusine indica</i>	Goose grass
	<i>Hibiscus trionum</i>	Bladderweed
	<i>Nicandra physaloides</i>	Apple of Peru
	<i>Panicum schinzii</i>	Sweet buffalo grass
	<i>Portulaca oleracea</i>	Purslane
	<i>Schkuhria pinnata</i>	Dwarf marigold
	<i>Setaria pallide-fusca</i>	Red bristle grass
	<i>Setaria verticillata</i>	Sticky bristle grass
	* <i>Sorghum bicolor</i>	Wild grain sorghum
	* <i>Sorghum halepense</i>	Johnson grass
	* <i>Sorghum verticilliflorum</i>	Common wild sorghum
	<i>Spermacoce senensis</i>	Spike leaf
<i>Tagetes minuta</i>	Khaki weed	
<i>Tragus racemosus</i>	Large carrotseed grass	
<i>Urochloa panicoides</i>	Herringbone grass	
<i>Xanthium strumarium</i>	Cocklebur	

* Weeds will only be controlled for 8 weeks after application of **EPTC Plus 720 EC**.

Table 8.2:

Dosage	Weeds controlled	
	Above-mentioned plus:	
	Botanical name	Common name
EPTC Plus 720 EC (ppi, Table 2) FOLLOWED WITH 570 ml / ha Leap 840 EC PLUS 1.0 l / ha CRUX 425 SC PLUS Villa 51 (100 ml / 100 l) post-emergence	<i>Hibiscus cannabinus</i>	Kenaf
	<i>Physalis angulata</i>	Wild gooseberry

* Weeds will only be controlled for 8 weeks after application of **EPTC Plus 720 EC**.

TABLE 9: CRUX 425 SC plus Campatop® 225 EC tank mixture, applied post-emergence of maize and sweet corn (1- to 6-leaf stage of weeds).**Table 9.1:**

Dosage	Weeds controlled	
	Botanical name	Common name
400 ml / ha CRUX 425 SC PLUS 450 ml / ha Campatop® 225 EC	<i>Amaranthus deflexus</i>	Perennial pigweed
	<i>Bidens pilosa</i>	Common blackjack
	<i>Cleome monophylla</i>	Spindlepod
	<i>Datura ferox</i>	Large thorn apple
	<i>Tagetes minuta</i>	Khaki weed
	<i>Xanthium spinosum</i>	Spiny cocklebur
	<i>Xanthium strumarium</i>	Cocklebur

Table 9.2:

Dosage	Weeds controlled Above-mentioned plus:	
	Botanical name	Common name
600 ml / ha CRUX 425 SC PLUS 450 ml / ha Campatop® 225 EC	<i>Amaranthus hybridus</i>	Common pigweed
	<i>Chloris virgata</i>	Feathertop Chloris
	<i>Datura stramonium</i>	Thorn apple
	<i>Hibiscus trionum</i>	Bladderweed
	<i>Ipomoea purpurea</i>	Common morning glory
	<i>Schkuhria pinnata</i>	Dwarf marigold
	<i>Spermacoce senensis</i>	Spike leaf

Table 9.3:

Dosage	Weeds controlled Above-mentioned plus:	
	Botanical name	Common name
800 ml / ha CRUX 425 SC PLUS 450 ml / ha Campatop® 225 EC	<i>Chenopodium album</i>	White goosefoot
	<i>Nicandra physaloides</i>	Apple of Peru

TABLE 10: Leap 840 EC pre-emergence of maize, sweet corn and weeds, followed with CRUX 425 SC plus Campatop® 225 EC, no cultivation, 1- to 6-leaf stage of weeds.

Dosage	Weeds controlled	
	Botanical name	Common name
570 ml / ha Leap 840 EC FOLLOWED WITH 800 ml / ha CRUX 425 SC PLUS 450 ml / ha Campatop® 225 EC	<i>Amaranthus deflexus</i>	Perennial pigweed
	<i>Amaranthus hybridus</i>	Common pigweed
	<i>Amaranthus spinosus</i>	Thorny pigweed
	<i>Chenopodium album</i>	White goosefoot
	<i>Chloris virgata</i>	Feathertop Chloris
	<i>Commelina benghalensis</i>	Benghal wandering Jew
	<i>Datura ferox</i>	Large thorn apple
	<i>Digitaria sanguinalis</i>	Crab fingergrass
	<i>Eleusine indica</i>	Goose grass
	<i>Galinsoga parviflora</i>	Gallant soldier
	<i>Hibiscus trionum</i>	Bladderweed
	<i>Nicandra physaloides</i>	Apple of Peru
	<i>Panicum schinzii</i>	Sweet buffalo grass
	<i>Portulaca oleracea</i>	Purslane
	<i>Schkuhria pinnata</i>	Dwarf marigold
	<i>Setaria verticillata</i>	Sticky bristle grass
	<i>Spermacoce senensis</i>	Spike leaf
	<i>Tagetes minuta</i>	Khaki weed
	<i>Urochloa panicoides</i>	Herringbone grass
	<i>Xanthium spinosum</i>	Spiny cocklebur
<i>Xanthium strumarium</i>	Cocklebur	

NOTES**Maize and sweet corn only (excluding the super sweet cultivars):**

For control of weeds listed below, the following spray programmes must be followed (in areas of high pressure):

- *Commelina benghalensis*: (Dry conditions will result in variable control.)
 - Kwazulu-Natal:
Leap 840 EC (Table 1) pre-emergence applied, followed with 1 litre **CRUX 425 SC** plus 840 ml **Platinum 960 EC** or 520 ml per hectare **Palladium 960 EC** per hectare plus **Villa 51** at 100 ml per 100 litres spray mixture, post-emergence applied. No cultivation.
- *Ipomoea purpurea* and *Tribulus terrestris*: (for 3 to 4 weeks' control, but variable under unfavourable conditions). Where these two weeds occur, add 450 ml **Campatop® 225 EC** per hectare to the post-emergence application when any **CRUX 425 SC** programme is followed.

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

- **LEAP 840 EC** (L 8064 / N-AR 1103) = **PREMIUM 840 EC** (L 8066) = **ARMANN SUPER 840 EC** (L 8373) (**Acetochlor**),
- **CAMPATOP® 225 EC** (L 5320 / N-AR 1115) = **BROMOXYNIL 225 EC** (L 4466 / W 130530) = **BROMOXYNIL 225 EC** (L 8340),
- **PLATINUM 960 EC** (L 7434 / N-AR 1108) = **METOLACHLOR 960 EC** (L 7136 / W 130075 / N-AR 1362) = **PLATINUM 960 EC** (L 8129),
- **PLATINUM PLUS 915 EC** (L 7844) = **METOLACHLOR 915 EC** (L 7841 / N-AR 1361) = **PLATINUM PLUS 915 EC** (L 8249) (**Metolachlor**),
- **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) = **PENTIUM 960 EC** (L 9830) = **PARTISAN 960 EC** (L 9964) (**S-metolachlor**),
- **2,4-D-AMINE 480 SL** (L 4505 / W 130459 / N-AR 1096) = **AMINO 480 SL** (L 8034) = **2,4-D AMINE SL** (L 8145),
- **COMMODOBUFF** (L 5390 / N-AR 1107) = **AQUABUFF** (L 5451 / W 130060) = **PAZBUFF** (L 5385) = **REVERBUFF** (L 3008) and
- **VILLA 51** (L 8050 / W 130454 / N-AR 1090) = **WEN 51** (L 8315).

LEAP 840 EC, VILLA 51, WEN 51, PLATINUM 960 EC, PLATINUM PLUS 915 EC, PALLADIUM PLUS 915 EC, PALLADIUM 960 EC, AMINO 480 SL, AQUABUFF, REVERBUFF and/en COMMODOBUFF are registered products of / is geregistreerde produkte van **VILLA CROP PROTECTION (PTY) LTD.**

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