

BEFORE USING THIS PRODUCT, READ THE LABEL CAREFULLY. KEEP OUT OF REACH OF CHILDREN AND ANIMALS.



Herbicide

CYCLONE ELITE

Reg. No. L 8881 Act No. 36 of 1947
N-AR 1633

4: 15/9/2022 – Nov2022

A suspension concentrate herbicide for the pre- and/or post-emergence control of most annual grasses and broadleaf weeds in maize.

GROUP 2;27 HERBICIDE

ACTIVE INGREDIENTS

flumetsulam (triazolopyrimidine-type 1)
sulcotrione (triketone)

25 g/l

200 g/l



Hazard Statements:

Causes mild skin irritation.
May cause an allergic skin reaction.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause cancer.
Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.

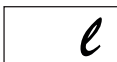
Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

Avoid release to the environment.
Store locked up.

DANGER



villa

UN Number: 3082

Registration holder: Meridian Agrochemical Company (Pty) Ltd
Co. Reg. No. 2000/010819/07
P.O. Box 801, Kempton Park, 1620
Tel. (011) 396 2233
Website: www.villacrop.co.za

24 HR EMERGENCY NUMBERS:

Griffon Poison Centre: +27 82 446 8946

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:

CYCLONE ELITE

Reg. No. L 8881 / N-AR 1633, Act No. 36 of 1947

HRAC HERBICIDE GROUP CODES: 2/ 27

ACTIVE INGREDIENTS:

flumetsulam (triazolopyrimidine-type1) 25 g/l
 sulcotrione (triketone) 200 g/l

Registration holder:

Meridian Agrochemical Company (Pty.) Ltd.

Reg. No. 2000/010819/07

PO Box 801, Kempton Park, 1620

WARNINGS**Withholding periods:**

Minimum time between the last application and grazing of treated areas:	
Maize and sweetcorn	70 days

Hazard statements:

Causes mild skin irritation.
May cause an allergic skin reaction.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause cancer.
Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure
Very toxic to aquatic life.
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, feed and fertilizers.
- Keep out of reach of children, uninformed persons and animals.
- **Aerial application:** Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings. Do not apply over water bodies and ensure that spray drift will not contaminate areas under treatment.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be effective under all conditions. The activity 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 weed against the remedy, as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal, or for lack of performance of the remedy concerned due to failure by the user to follow the label instructions, or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

PRECAUTIONS**Precautionary Statements**

Obtain, read and follow all safety instructions before use.
Do not breathe dust, fume, gas, mist, vapours and spray.
Avoid breathing dust, fume, gas, mist, vapours and spray (respiratory sensitization).
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
In case of inadequate ventilation wear respiratory protection.
IF ON SKIN: Wash with plenty of water and non-abrasive soap
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF exposed or concerned, get medical advice.

Get medical help if you feel unwell.
If skin irritation or rash occurs: Get medical help.
If experiencing respiratory symptoms: Get emergency medical help immediately.
Collect spillage.
Store locked up.
Dispose of contents/container in accordance with local regulations.

- Wash with soap and water after use and accidental skin contact as well as contaminated clothing.
- Do not eat, drink or smoke while mixing or applying the product or before washing hands and face.
- Avoid drift of spray onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean applicator after use. Dispose of rinsate where it will not contaminate crops, grazing, rivers, dams and boreholes.
- Prevent contamination of food, feeds, drinking water and eating utensils.
- **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). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.
- Destroy the empty container and do not use for any other purpose.

Relevant hazardous components	
Flumetsulam	25 g/l
Sulcotrione	200 g/l
Ethylene glycol	<50 g/l
Morwet D-425	<50 g/l
Formaldehyde	<10 g/l

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:** Move the victim to fresh air immediately. 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, shoes and leather goods (e.g. leather belts and watch bands). Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Seek medical attention if necessary.
- **Eyes:** Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after five (5) minutes and continue rinsing. Obtain medical attention if irritation persists.
- **Ingestion:** Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water. **Seek medical advice immediately.**

RESISTANCE WARNING

CYCLONE ELITE is group code 2/27 herbicides. Any weed population may contain individuals naturally resistant to **CYCLONE ELITE** and other group codes 2/27 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **CYCLONE ELITE** or any other group codes 2/27 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 the control methods (chemical, cultural, biological) into weed control programmes.

For specific information on resistance management contact the registration holder of this product.

Since the occurrence of resistance cannot be forecast, users are advised to keep treated crops under close observation. If treatment is not effective following the use of **CYCLONE ELITE** as recommended, a resistant weed population may be present. If a resistant weed population is positively identified, consideration should be given to prompt use of a herbicide with a different mode of action for which there is no record of resistance to the relevant pest.

Meridian Agrochemical Company, trading as Meridian Agritech, will not accept any liability for performance failures in the event of a build-up of resistant weeds resulting from inadequate resistance management practices as indicated on the label.

Follow-on crops:

To avoid damage to follow-up crops, the following waiting periods should be adhered to:	
Maize, Sweet corn	Nil
Grain Sorghum	1 month
Sunflowers, Groundnuts, Soya beans, Potatoes, Dry beans, Forage Sorghum and Cotton	3 months
CYCLONE ELITE PLUS Prefix S EC Wheat, Broccoli, Carrots, Lucerne, Cucurbits, Tobacco, Green beans, Peas (less than 500 ml) and Green peppers	4 months
Other Small grains and Peas	12 months
All Other Crops	24 months

NOTE

The waiting periods mentioned are only valid if the correct amount of **CYCLONE ELITE** plus mixture products have been applied and normal or above normal rains occurred during the season, and normal cultivation practices carried out. **In the case of 'All Other Crops' a test planting is recommended in all cases.**

MODE OF ACTION:

Flumetsulam is a selective, systemic herbicide, absorbed by roots and leaves, translocated acropetally and basipetally in the phloem and xylem to meristems. Branched chain amino acid synthesis inhibitor. Inhibition of acetolactate synthase (ALS, also known as acetohydroxy acid synthase, AHAS), blocking the biosynthesis of the amino acids valine, leucine and isoleucine, hence stopping cell division and plant growth.

Sulcotrione is a selective, systemic herbicide, absorbed primarily by the leaves, but also by roots, translocated in the phloem and xylem. It acts by inhibition of 4-hydroxyphenylpyruvate dioxygenase (HPPD), resulting in blockage of plastoquinone biosynthesis and, ultimately, carotenoid biosynthesis.

USE RESTRICTIONS

- Do not use **CYCLONE ELITE** on experimental or newly released cultivars/varieties without first consulting your supplier or the seed company concerned.
- Do not use **CYCLONE ELITE** on poorly drained soils or soils with a compaction layer, as under these conditions waterlogging can occur and the herbicide may cause crop injury.
- Do not apply **CYCLONE ELITE** to any crop or situation not mentioned in this instruction leaflet.
- Only apply **CYCLONE ELITE** using an accurate and safe application technique.
- Heavy rain on very sandy soils low in organic matter as well as flood irrigation can reduce weed control performance.
- Optimum weed control is obtained on a fine even seedbed, free of clods, trash and weeds. **CYCLONE ELITE** will also give weed control in stubble mulch or minimum tillage situations.
- If **CYCLONE ELITE** is used in a tank mix with other recommended herbicides, consideration should be given to the restrictions of those respective products.
- Use the lower rates on soils in the Northwest Province, North- and Western Free State.
- Use lower rates on lighter soils and where the weed population pressure is low.
- Make sure that sufficient fertilizer is applied and correctly placed at the time of planting to promote the growth of the seedlings.
- Do not apply this product in combination or tank mixture with any other product or agricultural remedy which is not specifically listed on this label. Meridian Agrochemical Company (Pty) Ltd accepts no responsibility for any negative effects experienced if the instructions on this label are not adhered to, unless a Meridian representative was consulted beforehand.
- Do not apply **CYCLONE ELITE** within 28 days after application of an organophosphate or carbamate insecticide. Similarly do not apply an organophosphate or carbamate insecticide within 28 days of

application of **CYCLONE ELITE**. Do not apply as a tank mixture with above-mentioned products under any circumstances.

DIRECTIONS FOR USE: Use only as directed.

Compatibility:

- The compatibility of **CYCLONE ELITE** with other products depends on the formulations of the respective products as well as the quality of the spray water to be used.
- As formulations change from time to time it is recommended that a physical compatibility test be done prior to the tank mixture being made.
- **CYCLONE ELITE** is compatible with most pyrethroid insecticides, **ALKANOX 360 EC** (L 9764), **PREFIX S EC** (L 7362), **TROOPER 320 SL** (L 6806), **PREMIERE 480 EC** (L 9116 / N-AR 1630) and **ULTRAMOC XTRA EC** (L 8878 / N-AR 1692).

Mixing Instructions:

- Half-fill the spray tank with suitable water, then add the required amount of **CYCLONE ELITE** to the water in the tank while agitating.
- Fill the spray tank to the desired volume.
- Should tank mixtures with other herbicides be made, follow the respective manufacturers' label recommendations.
- **Tank mixtures must be sprayed out immediately and not allowed to stand in the spray tank overnight.**
- Spraying equipment must be thoroughly flushed out at the end of the spraying operation.

APPLICATION METHODS

- Ensure that the equipment is correctly calibrated and is checked regularly during application to ensure even and accurate application.
- Knapsack sprayers or tractor mounted boom sprayers may be used.
- A spray volume of 200 to 300 litres per hectare should be used for ground application and can be applied via flat fan-type nozzles, preferably the low drift type to avoid fine droplets.
- **Constant agitation throughout the spray operation is essential.**
- Only clean water should be used.
- **Rain is essential to leach the product into the zone of the germinating weeds and therefore 10 to 15 mm of rain or irrigation is needed within seven (7) days of application to ensure optimum results.**
- Under drier conditions, weeds may emerge. These should be controlled with a shallow cultivation, which will also incorporate the herbicide into the upper 10 to 20 mm of soil.
- If soil crusting becomes a problem, rotary harrow in the same direction that the rows are planted, to assist maize germination.
- Harrowing after application may reduce weed control if untreated soil is thrown into deep planter furrows.
- Apply **CYCLONE ELITE** preferably with or directly after planting but not later than three days after planting.
- Always use the lower rates on lighter soils and where the weed pressure is lower.

Ground application:

CYCLONE ELITE may be applied with any properly calibrated medium or high volume sprayer which is equipped with an efficient agitation mechanism capable of adequate coverage and even distribution. Best results are obtained using flat fan-type spray nozzles and applying a minimum spray volume of 200 litres per hectare.

Aerial application:

Aerial application may only be done by a registered aerial application operator using a registered and correctly calibrated aircraft according to the instructions of SANS Code 10118 (Aerial Application of Agricultural Remedies). It is important to 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;

Equipment

- Use suitable atomising equipment (hydraulic nozzles or rotary atomisers) that will produce the desired droplet size and coverage of the target area and will ensure the minimum loss of product through drift.
- The operator must use a nozzle set-up that will produce a droplet spectrum with the lowest possible relative span.

- All nozzles and atomisers should be positioned within the inner 75 % of the wingspan to prevent droplets from entering the wingtip vortices.

Application Parameters

- A minimum volume of 40 litres spray mixture per ha is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy nor be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended.
- A droplet coverage of 30 to 40 droplets per cm² must be recovered at the target.
- A droplet spectrum with a VMD of 250 to 280 microns is recommended. Ensure that the production of fine droplets, with a VMD less than 150 microns, is restricted to a minimum.
- The height of the spray boom should be maintained at between 3 and 4 metres above the target.
- Do not spray when the aircraft is in a climb, at the top of a turn or during a dive or when banking.
- Apply before the crop growth becomes too dense, which will interfere with overall plant coverage.

Meteorological Conditions

- The difference between the wet and dry bulb readings as determined by a whirling hygrometer, must not exceed 8 °C.
- Do not spray under turbulent, unstable conditions nor during the heat of the day when rising thermals and downdraughts occur.
- Do not spray under temperature inversion conditions (spraying in or above the inversion layer).
- Do not spray when the wind speed exceeds 15 km per hour.

General

- Ensure that fields are accurately marked and 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.

Pre-emergence aerial application:

- A minimum spray volume of 40 litres per hectare.
- A minimum of 20 to 30 droplets per cm² must be recovered on the target area.
- Employ a droplet spectrum with VMD of 450 micron. Ensure that the production of fine droplets (less than 150 microns with high drift and evaporation potential) is restricted to a minimum.

Factors affecting weed control:

- The performance of **CYCLONE ELITE** and its mixtures 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.
- Dry soil conditions after **pre-emergence** application may result in reduced control of germinating weeds. This can be corrected by surface blending or a post-emergence application of **CYCLONE ELITE** at the correct growth stage of the weeds and after rain.
- 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 of weed control expected should be 4 to 8 weeks depending on cultivation practices above conditions and weed species present.**
- When a post-emergence application of **CYCLONE ELITE** is anticipated, avoid the following:
 - Stress conditions of weeds caused by drought, cold weather conditions, disease, insect damage, mineral element deficiencies and waterlogging.
 - 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 **CYCLONE ELITE** application, herbicidal efficacy may be reduced.

MAIZE and SWEETCORN (excluding super sweet cultivars):

- Use only the recommended quantities of tank mixture products as laid out in the tables below.
- Apply **CYCLONE ELITE** as a pre-emergence application at planting or in a herbicide programme, or as an early post-emergence spray to the weeds and crop.
- When **CYCLONE ELITE** is applied alone or **CYCLONE ELITE PLUS Trooper 320 SL** post-emergence, the addition of a suitable surfactant is recommended (only where emerged weeds are present).

RECOMMENDATIONS

PRE-EMERGENCE APPLICATIONS

When applied pre-emergence, **CYCLONE ELITE** should be applied during or immediately after planting on a weed-free seedbed. The seedbed should ideally be fine and even without excessive crop residue, to ensure the even distribution of **CYCLONE ELITE** on the soil surface.

TABLE 1. **CYCLONE ELITE** in tank mixture with **PREFIX S EC** for broad spectrum pre-emergence weed control as a single application in maize.

Crop	% Clay	Dosage rate (l/ha)	
		Prefix S EC	CYCLONE ELITE
Maize Pre-emergence tank mixtures	0 to 10	0.5	0.5 to 0.75
	11 to 15	0.75	0.75
	16 to 20	0.9	0.75 to 1.0
	21 to 50	1.0	0.75 to 1.0

REMARKS FOR TABLE 1

- Where minimum tillage or stubble mulching is practiced, weeds may already have come up at the time of planting. If maize or grain sorghum are planted under such circumstances, or if they are planted into an old seedbed where grasses have already germinated and/or broadleaf weeds have developed past the four-leaf stage, it is recommended that **Paraquat** be added to the **CYCLONE ELITE** spray solution, at a dosage rate recommended by the manufacturer. The **Paraquat** will destroy the existing weeds and create a clean pre-emergence condition that will allow **CYCLONE ELITE** to work effectively.

NOTE

- When **Paraquat** is added, the application must take place before the crop emerges otherwise **Paraquat** will cause damage to the crop.
 - In case of minimum tillage or stubble mulching, the amount of stubble and organic material at the soil surface may reduce the efficacy of **CYCLONE ELITE**. The representative of the manufacturer or distributor should be consulted.
- CYCLONE ELITE** can be used as a pre-emergence herbicide in tank mixture with **Prefix S EC**. However, **CYCLONE ELITE** can also be used in a programme with **Prefix S EC** where the **Prefix S EC** is applied at planting, followed by a **CYCLONE ELITE** application pre-emergence of weeds or with the addition of **Trooper 320 SL OR Alkanox 360 EC** post-emergence of weeds. See the recommendations for post-emergence applications below.

TABLE 2. **CYCLONE ELITE** in tank mixture with **Ultramoc Xtra EC** for broad spectrum pre-emergence weed control in maize.

Crop	% Clay	Ultramoc Xtra EC (l/ha)	CYCLONE ELITE (l/ha)	Timing of application
Maize	0 to 10	-	-	Apply at, or immediately after, planting to a freshly prepared seedbed. Ensure that all conditions and restrictions for CYCLONE ELITE and Ultramoc Xtra EC are adhered to.
	11 to 20	1.0 to 1.4	0.75	
	21 to 30	1.4 to 1.5	1.0	
	31 to 40	1.5 to 1.7	1.0	
	41 to 50	1.7 to 2.0	1.0	

REMARKS FOR TABLE 2:

- Should other weeds be present which need to be controlled pre-emergence, consideration should be given to inclusion of products which are registered for the control of those specific weeds.
- This application may be followed up with applications of **CYCLONE 250 SC** (L 8880 / N-AR 1633), **CYCLONE ELITE OR Premiere 480 SC**. Refer to these labels for **FULL DIRECTIONS, INSTRUCTIONS AND RESTRICTIONS**.

POST-EMERGENCE APPLICATIONS**TABLE 3.** **CYCLONE ELITE** in tank mixture with **Trooper 320 SL** for broad-spectrum post-emergence weed control in maize.

Crop	Dosage rate (l/ha)	
	Trooper 320 SL	CYCLONE ELITE
Maize Post-emergence tank mixtures	0.35 to 0.5	0.75 to 1.0

TABLE 4. **CYCLONE ELITE** in tank mixture with **Alkanox 360 EC** for broad-spectrum post-emergence weed control in maize.

Crop	Dosage rate (l/ha)	
	Alkanox 360 EC	CYCLONE ELITE
Maize Post-emergence tank mixtures	0.5	1.0

Remarks for post-emergence tables

- The above application is recommended as a follow-up application to maize which has already been treated with a pre-emergence mixture containing a graminicide such as **PREFIX S EC** or **Ultramoc Xtra EC**. Failure to apply such a pre-emergence treatment is likely to result in abnormal weed pressure with consequent weed competition and poor follow-up post-emergence results.
- The above mixture may be applied immediately following mechanical cultivation on a pre-emergence basis, in which case no additional surfactant is required.
- For a post-emergence application, the maize must be at least in the 4-leaf stage.
- Should cold and wet weather conditions prevail or occur during or shortly after application of **CYCLONE ELITE**, chlorosis may occur but yield should not be affected.
- Broadleaf weeds should not be further developed than the 4-leaf stage and grasses not further than the 2 to 3-leaf stage should they be present at the time of application.
- A registered surfactant with penetrant activity such as **SOLITAIRE** (L 6962) **OR H&R CROP OIL** (L 6802) must be added to the spray mixture for all post-emergence applications where weeds have already emerged.
- The dosage rate selected from the table above is purely dependent upon weed species to be controlled and duration of control required.
- Consult the **Alkanox 360 EC** and **Trooper 320 SL** labels for the list of weeds for which control can be expected.

NOTE

TABLES 1 and 2 can be used as a program where **CYCLONE ELITE** and **Prefix S EC** or **Ultramoc Xtra EC** are applied together pre-emergence of maize and weeds and then followed up with **CYCLONE ELITE** and **Alkanox 360 EC**, or **Trooper 320 SL** on a post-emergence of maize basis at the rates given in the tables above.

WEEDS CONTROLLED	
CYCLONE ELITE	PLUS
Prefix S EC:	
Botanical name	Common name
<i>Amaranthus deflexus</i>	Perennial pigweed
<i>Amaranthus hybridus</i>	Common pigweed
<i>Bidens pilosa</i>	Common Blackjack
<i>Chenopodium album</i>	White goosefoot
<i>Chloris virgata</i>	Feathertop chloris
<i>Cleome monophylla</i>	Spindlepod
<i>Cosmos bipinnatus</i>	Cosmos
<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria
<i>Datura ferox</i>	Large Thorn apple
<i>Digitaria sanguinalis</i>	Crab finger-grass
<i>Eleusine indica</i>	Goose grass
<i>Gisekia pharnaceiodes</i>	Gisekia
<i>Lepidium africanum</i>	Common peppergrass
<i>Nicandra physaloides</i>	Apple-of-Peru
<i>Portulaca oleracea</i>	Purslane
<i>Spermacoce senensis</i>	-
<i>Tagetes minuta</i>	Khaki weed
<i>Tragus racemosus</i>	Large carrotseed grass
WHERE THE HIGHER RATES ARE USED THE FOLLOWING WEEDS MAY BE ADDITIONALLY CONTROLLED:	
<i>Acanthospermum hispidum</i>	Upright starbur
<i>Amaranthus spinosus</i>	Thorny pigweed
<i>Brachiaria eruciformis</i>	Sweet signal grass
<i>Cassia spp</i>	Cassia
<i>Chenopodium carinatum</i>	Green goosefoot
<i>Emex australis</i>	Spiny emex
<i>Hibiscus cannabinus</i>	Kenaf
<i>Hibiscus trionum</i>	Bladder weed
<i>Lolium multiflorum</i>	Italian ryegrass
<i>Medicago sativa</i>	Lucerne
<i>Panicum schinzii</i>	Sweet buffalo grass
<i>Physalis angulata</i>	Wild gooseberry
<i>Raphanus raphanistrum</i>	Wild radish
<i>Richardia brasiliensis</i>	Tropical richardia
<i>Schkuhria pinnata</i>	Dwarf marigold
<i>Setaria pallide-fusca</i>	Red bristle grass
<i>Sida cordifolia</i>	Heartleaf sida
<i>Solanum nigrum</i>	Nightshade
<i>Tribulus terrestris</i>	Dubbeltjie
<i>Urochloa panicoides</i>	Herringbone grass

NOTES

The variable control of weeds mentioned directly above is dependent upon environmental conditions and rate of application. The pre-emergence control of *Cyperus esculentus* is dependent on the following:

- Where a dosage choice is given, use the higher rate.
- Planting into a firm and fine seedbed must be preceded by a deep ploughing.
- **PREFIX S EC** must be applied within two (2) days after planting.
- Sufficient continual soaking rain or irrigation (at least 15 mm on light soils and 25 mm on heavy soils) must fall within seven (7) days of spraying to leach the herbicide into the germination zone.

WEEDS CONTROLLED		
CYCLONE ELITE	PLUS	Ultramoc Xtra EC:
Botanical name	Common name	
<i>Bidens pilosa</i>	Common Black Jack	
<i>Brachiaria eruciformis</i>	Sweet signal grass	
<i>Chloris virgata</i>	Feathertop Chloris	
<i>Dactyloctenium aegyptium</i>	Crowfoot	
<i>Datura ferox</i>	Large Thorn apple	
<i>Digitaria sanguinalis</i>	Crab finger-grass	
<i>Echinochloa crusgalli</i>	Banyard grass	
<i>Eleusine indica</i>	Goose grass	
<i>Panicum maximum</i>	Common buffalo grass	
<i>Panicum schinzii</i>	Sweet buffalo grass	
<i>Pseudobrachiaria deflexa</i>	False signal grass	
<i>Setaria pallide-fusca</i>	Red bristle grass	
<i>Setaria verticillata</i>	Sticky bristle grass	
<i>Tragus berteronianus</i>	Small carrotseed grass	
<i>Tragus racemosus</i>	Large carrotseed grass	
<i>Urochloa mozambicensis</i>	Bushveld herringbone grass	
<i>Urochloa panicoides</i>	Herringbone grass	
<u>VARIABLE CONTROL BY CYCLONE ELITE PLUS Ultramoc Xtra EC:</u>		
<i>Amaranthus hybridus</i>	Cape pigweed	
<i>Amaranthus spinosus</i>	Thorny pigweed	
<i>Amaranthus thunbergii</i>	Red pigweed	
<i>Chenopodium carinatum</i>	Green goosefoot	
<i>Cleome monophylla</i>	Spindlepod	
<i>Commelina benghalensis</i>	Bengal wandering jew	
<i>Cyperus esculentus</i>	Yellow nutsedge	
<i>Galinsoga parviflora</i>	Gallant soldier	
<i>Nicandra physaloides</i>	Apple of Peru	
<i>Portulaca oleracea</i>	Purslane	

NOTES

The variable control of weeds mentioned directly above is dependent upon environmental conditions and rate of application. The pre-emergence control of *Cyperus esculentus* is dependent on the following:

- Where a dosage choice is given, use the higher rate.
- Planting into a firm and fine seedbed must be preceded by a deep ploughing.
- **Ultramoc Xtra EC PLUS CYCLONE ELITE** must be applied within two (2) days after planting.
- Sufficient continual soaking rain or irrigation (at least 15 mm on light soils and 25 mm on heavy soils) must fall within seven (7) days of spraying to leach the herbicide into the germination zone.
- Nutsedge will not be controlled at the reduced rates recommended in **TABLE 2**.

WEED SPECIES THAT WERE NOT PRESENT DURING THE DEVELOPMENT TRIALS OF THE PRODUCT COULD POSSIBLY ALSO BE CONTROLLED TO A GREATER OR LESSER DEGREE. THE REGISTRATION HOLDER DOES NOT ACCEPT ANY LIABILITY IN RESPECT OF THE CONTROL OF UNLISTED WEEDS.

ALKANOX 360 EC, PREFIX S EC, ULTRAMOC XTRA EC, TROOPER 320 SL and PREMIERE 480 EC are registered products of
MERIDIAN AGROCHEMICAL COMPANY (PTY) LTD.

CYCLONE 250 SC is a registered product of **UNIVERSAL CROP PROTECTION (PTY) LTD.**

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