

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



Herbicide

PENTIUM 960 EC

Reg. No. L 9830 Act No. 36 of 1947

3:11/6/2022 – Nov2022

A pre-emergence emulsifiable concentrate herbicide for the control of most annual grasses and certain broad-leaved weeds in dry beans, groundnuts, soybeans, sunflowers, grain- and forage sorghum, sugarcane, potatoes, tobacco, lupins and forestry plantations/areas as well as early post emergence in maize.

ACTIVE INGREDIENT

s-metolachlor (chloroacetamide) 960 g/l

GROUP

15

HERBICIDE



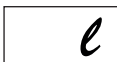
WARNING

Hazard Statements:

May be harmful if swallowed.
May be harmful in contact with skin.
Harmful if inhaled.
May cause an allergic skin reaction.
Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
Avoid breathing dust, fumes, mists, gas, vapours or spray.
Avoid release into the environment.



villa

UN Number: 3082

Registration holder: UNIVERSAL CROP PROTECTION (PTY) LTD.
Co. Reg. No. 1983/008184/07
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:

PENTIUM 960 EC

Reg. No. L 9830 Act No. 36 of 1947
 HRAC HERBICIDE GROUP CODE: 15

ACTIVE INGREDIENT:

s-metolachlor (chloroacetamide) 960 g/l

Registration holder:

UNIVERSAL CROP PROTECTION (PTY) LTD.

Co. Reg. No. 1983/008184/07

PO Box 10413, ASTON MANOR, 1630

Tel. (011) 396 2233.

WARNINGS**Withholding periods:**

Minimum number of days between the last application and harvest:	
Pecan nuts	95 days

Hazard statements:

May be harmful if swallowed.
May be harmful in contact with skin.
Harmful if inhaled.
May cause an allergic skin reaction.
May be fatal if swallowed and enters airways.
Very toxic to aquatic life with long lasting effects.

- Handle with care.
- Store in a cool place away from food, feeds, seed, fertilizers and other agricultural chemicals.
- Keep out of reach of children, uninformed persons and animals.
- **In case of poisoning call a doctor and make this label available to him/her.**
- Re-entry: Do not enter treated field within one (1) day after application unless wearing protective clothing.

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 against the remedy concerned, 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 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:**

Avoid breathing dust, fumes, mists, gas, vapours or spray.
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 medical help.
IF ON SKIN: Wash with plenty of water and non-abrasive soap. Get medical help.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help.
If skin irritation or rash occurs: Get medical help.
Collect spillage.
Dispose of contents/container in accordance with local regulations.

- In case of accidental contact with skin or eyes, flush with plenty of cold water and get medical attention if necessary.
- Do not eat, drink or smoke whilst mixing or applying the product or before washing hands and face and change of clothing.
- Prevent drift on to other crops, grazing, rivers, dams and areas not under treatment or to nearby water sources by using a suitable drift retardant such as **INTERLOCK®** (L 10254 / W 130875 / N-AR 1856).
- Thoroughly clean spraying equipment directly after use and dispose of wash water where it will not contaminate food, grazing, boreholes, rivers or dams.
- **TRIPLE RINSE** empty containers by inverting 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). Where possible, recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Observe all labelled safeguards until container is destroyed.
- 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.

Relevant hazardous components	
S-metolachlor	960 g/l
Aromatic hydrocarbon	< 10 %
Tristyryl Phenol ethoxylate	< 8 %

SYMPTOMS OF HUMAN POISONING

Irritation effects on skin and mucous membranes are the most common reactions. May cause irritation to the eyes. Allergic skin reaction may occur. May cause skin sensitization. Large ingestions can cause nausea, vomiting, abdominal distress and diarrhoea.

FIRST AID TREATMENT

- **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 to 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after five (5) minutes and continue rinsing.
- **Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs. **Seek medical attention if you feel unwell after inhalation.**
- **Ingestion:** Seek medical attention or call a poison control centre for treatment advice. **Do not induce vomiting** unless instructed to do so by a poison control centre or doctor. **Do not** give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water.

NOTE TO PHYSICIAN

No specific antidote. Treat symptomatically and supportively. Keep patient under observation. Perform gastric lavage and catharsis if the victim is not unconscious. If less than 10 mg per kg body weight was ingested, administer 30 to 60 g activated charcoal in 150 to 300 ml water.

Mode of Action:

PENTIUM 960 EC contains **S-metolachlor**, a chloroacetamide compound which belongs to HRAC group 15. It is used as a pre-, early post-emergence and pre-plant incorporated herbicide for the control of annual grass and some broad leaf weeds. **S-metolachlor** is a selective herbicide which is absorbed primarily by hypocotyls and shoots and in turn inhibits germination.

RESISTANCE WARNING

PENTIUM 960 EC is a group code 15 herbicide. Any weed population may contain individuals naturally resistant to **PENTIUM 960 EC** and other group code 15 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **PENTIUM 960 EC** or any other group code 15 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

- **PLEASE NOTE: PENTIUM 960 EC SHOULD NOT BE USED as a pre-emergence treatment in maize (prior to maize germination), as this will result in severe crop damage.**
- **PENTIUM 960 EC as a solo application does not have a re-cropping interval. However, should PENTIUM 960 EC be 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 PENTIUM 960 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 **PENTIUM 960 EC** to poorly drained soils or soils with a compaction layer, as waterlogging and herbicide injury may occur.
- **Heavy rain (25 mm per day or 50 mm over a 3- to 7-day period) on very sandy soils (< 15 % clay) low in organic matter (< 1 %), as well as flood irrigation can reduce weed control performance.**
- **PENTIUM 960 EC** may damage the following crops under conditions as mentioned: Dry beans on fields where monoculture is practiced, and soil borne diseases are prevalent, also dry beans and sunflowers on shallow, sandy, waterlogged soils with an impermeable clay layer at less than 100 cm depth. **PENTIUM 960 EC** damage to dry beans is sometimes associated with hot, dry weather and a plough-sole in the soil. Forage sorghum and tobacco can be damaged if planted on sandy and/or gravel soils or where flood irrigation is performed.
- When **PENTIUM 960 EC** is applied to dry beans or grain sorghum, the seed must be treated with effective fungicides to control seedling diseases, such as *Pythium* spp., *Rhizoctonia* spp., etc.
- Use restrictions for any herbicides used in combination with **PENTIUM 960 EC**, must be adhered to.
- If **Triazine** sensitive crops such as groundnuts, kidney beans, cotton, dry beans, soybeans, sunflowers, wheat, vegetables, cotton and tobacco are planted as follow-up crops, the application rates of **Agризine 500 SC** and **Terbusien Super 600 SC** should not exceed 2.0 litres per hectare. These low rates may still damage follow-up crops on the very sandy soils of the North-Western Free State or on calcareous soils and weed control may not always be satisfactory.

DIRECTIONS FOR USE: Use only as directed.

Compatibility:

- **PENTIUM 960 EC** is compatible with **Sundry 500 WP/Symphony 500 WP, Radical 250 EC/Rapid 250 EC, AMETRYN 500 SC** (L 7742), **MCPA 400 SL** (L 5793 / N-AR 1092 / W1301410), **2,4-D AMINE 480 SL** (L 4505 / N-AR 1096 / W 130459), **Slash Plus 540 SL / Panga Plus 540 SL / Lynch Plus 540 SL, Gatling 700 SC/Brenno 700 SC, Extend 800 WDG/Develop 800 WDG, METRIBUZIN 480 SC** (L 4374), **AGRIZINE 500 SC** (L 5387 / W 130121), **Cantron® 480 SC/Astron® 480 SC/Canonne 480 SC, Cantron® Smart 500 SC/Astron® Smart 500 SC, TERBUSIEN SUPER 600 SC** (L 5435 / N-AR 1110 / W 130958), **Terbucide Plus 900 WDG/Terbuweed Duo 900 WDG, Terbucide 600 WDG/Terbuweed 600 WDG, Nicoron 750 WDG/Nicosulfuron 750 WDG, Halo 750 WDG/Crown 750 WDG, Lumen 420 SC/Loupe 420 SC/Lumina 420 SC, Pentium Ultra 660 SC/ Palladium Ultra 660 SC/Partisan Ultra 660 SC, Terbugold 600 SC/Terbuclear 600 SC/Partisan Gold 600 SC, THEORY 960 EC** (L 10494), **DESTINAIRE®** (L 10598), **Interlock®, CLASS ACT® NG**, (L 10477), **METRICANE 700 WDG** (L 8060), **Velocity® Super, Velocity® Drymax, Villa 51. and Ortron 750 WDG/Grantron 750 WDG.**
- If tank mixtures are performed with other products, small quantities of the products in the correct ratio should be mixed with the appropriate quantity of water, to determine compatibility.
- Water quality and formulation of other products may influence compatibility.

Mixing instructions:

- Shake container well before use. Close container after use.
- Half fill the spray tank with clean water; add the required amount of **PENTIUM 960 EC**, while maintaining agitation. Then complete the filling operation.
- When mixing **PENTIUM 960 EC** with other herbicides, use the following procedure:
 1. fill the spray tank three quarters with clean water. Add the required amount of complementary herbicide to the water, agitating continuously,
 2. continue filling the spray tank with water and add the required amount of **PENTIUM 960 EC** just before the tank is filled, to its full level.
- Ensure thorough agitation of the mixture in the tank during mixing and spraying.

- Spray mixtures must be sprayed out immediately and not allowed to stand in the spray tank overnight.
- Thoroughly flush out spraying equipment at the end of the spraying operation.

Post Spray Equipment Cleaning

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

Application recommendation:

- Use accurately calibrated equipment with properly arranged suitable nozzles and an efficient agitation mechanism.
- Prepare a fine, even and firm seedbed free of weeds, trash and clods.
- Use 200 litres spray mixture per hectare for overall ground application and 30 to 40 litres per hectare for aerial application.
- **PENTIUM 960 EC** can also be shallowly incorporated early in the season to improve reliability of weed control.
- **10 to 20 mm rain within 7 to 10 days after application is necessary for good results.**
- Under dry conditions, weed seedlings may emerge. These are usually stunted and can be controlled with a shallow cultivation, which also mixes the herbicide with the top 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 emergence.
- Harrowing after application may reduce weed control if untreated soil is thrown into deep planter furrows.
- **PENTIUM 960 EC** has no post-emergence activity and can be applied post-emergence to the crop after a cultivation, when no weeds are present.
- Ensure that sufficient fertilizer is placed near the seed at planting, to promote vigorous seedling growth.

Aerial Application:

Aerial application of **PENTIUM 960 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). 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:

- Flying height: The height of the spray boom should be maintained at 3 to 4 meters above the target. Do not spray when aircraft is in a climb, at the top of, or during a dive, or when banking.
- Use suitable atomising equipment (hydraulic nozzles or rotary atomisers) that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product either through endodrift (within target field) or exodrift (outside target field). The operator must use a setup that will produce a droplet spectrum with the lowest possible Relative Span. All nozzles/atomisers should be positioned 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.
- Aerial application of this product must not be done under turbulent, unstable conditions during the heat of the day when rising thermals and downdraughts occur.
- Also note that the application of this product 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:
 - reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage),
 - damage to other sensitive crops and/or non-target areas through the movement of the suspended spray cloud away from the target field.
- Ensure that the 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, and that relevant data will be compiled in a spray log and kept for future reference.

Pre-emergence aerial application of broad leaf crops:

- **Volume:** A spray mixture volume of 30 to 40 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:** Droplet coverage of 20 to 30 droplets per cm² must be recovered at the target.
- **Droplet size:** A droplet spectrum with a VMD of 350 to 400 micron is recommended. Ensure that the production of fine droplets (less than 150 micron with high drift & evaporation potential) is restricted to a minimum.

APPLICATION RATES

Refer to “USE RESTRICTIONS” and “DIRECTIONS FOR USE” above.

1.1. GROUNDNUTS, DRY BEANS, KIDNEYBEANS, SUNFLOWERS, COTTON, SOYBEANS AND LUPINS**NOTE**

- The higher application rates of **PENTIUM 960 EC** are recommended for control of Yellow nutsedge (*Cyperus esculentus*) and Crabfinger-grass (*Digitaria sanguinalis*) and on soils with > 1.0 % organic matter.

Table 1.1: PENTIUM 960 EC recommendations for use in broadleaf crops:

Soil Type	% Clay	PENTIUM 960 EC ℓ / ha
Sand / loamy sand / sandy loam	0 to 20	0.6 to 0.8
Sandy clay loam	21 to 30	0.8 to 1.0
Sandy clay loam / sandy clay	> 30 %	1.0 to 1.3

1.2. GROUNDNUTS**Table 1.2: PENTIUM 960 EC plus Sundry 500 WP recommendations for use in Groundnuts:**

Soil Type % Clay	Dosage per hectare	Remarks
11 to >30	0.65 to 1.0 ℓ PENTIUM 960 EC PLUS 70 to 80 g Sundry 500 WP	Apply at planting, or within 48 hours after planting. Use the lower dosage rates on more sandy soils and higher rates on heavier soils as indicated above. Sundry 500 WP may adversely affect groundnuts or under certain climatic conditions. In certain scenarios yield and quality may be affected adversely. These conditions include wet conditions (>20 mm rain), especially in combination with cold temperatures, sandy soils (< 10 % clay) and/or overcast weather within 28 days after planting. However, the exact parameters causing such damage cannot be determined accurately due to yearly variation between farms and fields and cultivar susceptibility. By using this product, the user is therefore warned that he accepts risk of crop injury. Refer to the Sundry 500 WP label for WARNINGS, PRECAUTIONS, USE RESTRICTIONS and DIRECTIONS FOR USE.
Re-cropping intervals:		
Groundnuts and Soybeans		14 days
All other crops		4 months

1.3. SOYBEANS

Table 1.3: PENTIUM 960 EC Plus Sundry 500 WP recommendations for use in Soybeans:

Soil Type % Clay	Dosage per hectare	Remarks
11 to >30	0.65 to 1.0 ℓ PENTIUM 960 EC PLUS 80 to 100 g Sundry 500 WP	Apply at planting, or within 48 hours after planting. Use the lower dosage rates on more sandy soils and higher rates on heavier soils as indicated above. Seed size: Smaller sized seed may be more susceptible to herbicide damage than larger seeds. Apply the PENTIUM 960 EC plus Sundry 500 WP mixture pre-emergence on groundnuts or soybeans either 14 days prior to planting or at planting, or immediately after planting. Do not apply later than 48 hours after planting the crop. If adhered to this, the risk of crop injury will be reduced but the residual efficacy and thus control of weeds in the planting row may be compromised. Refer to the Sundry 500 WP label for WARNINGS, PRECAUTIONS, USE RESTRICTIONS and DIRECTIONS FOR USE
Re-cropping intervals:		
Groundnuts and Soybeans		14 days
All other crops		4 months

Table 1.4: Weeds normally controlled in Groundnuts and Soybeans with a tank mixture of PENTIUM 960 EC Plus 80 g Sundry 500 WP per hectare:

Annual grasses:	
<i>Eleusine indica</i>	Goose grass
Broadleaved weeds:	
<i>Amaranthus hybridus</i>	Common pigweed
<i>Chenopodium album</i>	White goosefoot
<i>Chenopodium carinatum</i>	Green goosefoot
<i>Crotalaria sphaerocarpa</i>	Mealie Crotalaria
<i>Schkuhria pinnata</i>	Dwarf marigold
<i>Tribulus terrestris</i>	Devil's thorn
Weeds controlled variably:	
<i>Datura ferox</i>	Large thorn apple
<i>Tagetes minuta</i>	Khakiweed

Table 1.5: Weeds normally controlled in Groundnuts and Soybeans with a tank mixture of PENTIUM 960 EC Plus 100 g Sundry 500 WP per hectare:

Annual grasses:	
<i>Brachiaria eruciformis</i>	Sweet signal grass
<i>Chloris virgate</i>	Feathertop Chloris
<i>Digitaria sanguinalis</i>	Crab finger grass
<i>Echinochloa crusgalli</i>	Barnyard grass
<i>Eleusine indica</i>	Goose grass
<i>Panicum maximum</i>	Common buffalo grass
<i>Panicum schinzii</i>	Sweet buffalo grass
<i>Setaria pumila (=pallide-fusca)</i>	Red bristle grass
<i>Setaria verticillata</i>	Sticky bristle grass
<i>Tragus racemosus</i>	Large carrot seed grass
<i>Urochloa panicoides</i>	Herringbone grass
Broadleaved weeds:	
<i>Amaranthus deflexus</i>	Perennial pigweed
<i>Amaranthus hybridus</i>	Common pigweed
<i>Amaranthus spinosus</i>	Thorny pigweed
<i>Amaranthus thunbergii</i>	Red pigweed
<i>Chenopodium album</i>	White goosefoot
<i>Chenopodium carinatum</i>	Green goosefoot
<i>Cleome menophylla</i>	Spindlepod
<i>Crotalaria sphaerocarpa</i>	Mielie Crotalaria
<i>Flaveria bidentis</i>	Smelter's bush
<i>Portulaca oleraceae</i>	Purslane
<i>Schkuhria pinnata</i>	Dwarf marigold
<i>Tribulus terrestris</i>	Devil's thorn
Weeds controlled variably:	
<i>Anthemis cotula</i>	Stink mayweed
<i>Bidens pilosa</i>	Common blackjack
<i>Commelina benghalensis</i>	Bengal wandering jew
<i>Cosmos bipinnatus</i>	Cosmos
<i>Datura ferox</i>	Large thorn apple
<i>Datura stamonium</i>	Common thorn apple
<i>Stellaria media</i>	Chickweed
<i>Tagetes minuta</i>	Khakiweed
<i>Xanthium strumarium</i>	Cocklebur

NOTE

As **Sundry 500 WP** controls annual broadleaved weeds, other broadleaved weed species not listed above may be controlled to a greater or lesser extent. The registration holder however does not accept any liability in respect of the control of unlisted weeds.

1.6 Pre-emergence application of PENTIUM 960 EC in a tank mixture with Metricane 700 WDG or Metribuzin 480 SC in soybeans.

NOTES

- Certain soybean cultivars may be sensitive to **Metricane 700 WDG** and **Metribuzin 480 SC** such as Edgar, Dumela, Ibis, Highveld Top and Komati. **DO NOT** use this tank mixtures on these cultivars or on cultivars that is used for multiplication of mother seeds or cultivars on which **Metricane 700 WDG** and **Metribuzin 480 SC** has not been tested. Please consult your seed supplier before application.
- **Metricane 700 WDG** and **Metribuzin 480 SC** should not be applied in soils with a pH higher than 7 or lower than 4.5, in soils that is deficient of minerals or in soils that is flooded as crop injury may occur.
- **DO NOT** apply tank mixture in soils containing less than 10 % or more than 35 % clay.
- Please refer to the **Metricane 700 WDG** or **Metribuzin 480 SC** label for a list of additional weeds controlled by these products, as well as for **WARNINGS, PRECAUTIONS, USE RESTRICTIONS and DIRECTIONS FOR USE.**

PENTIUM 960 EC 780 to 1000 ml / ha	PLUS		
	Metricane 700 WDG 92 g / ha	OR	Metribuzin 480 SC 300 to 400 ml / ha*
WEEDS CONTROLLED			
Botanical name		Common name	
<i>Amaranthus hybridus</i>		Common pigweed	
<i>Citrullus lanatus</i>		Wild watermelon	
<i>Datura ferox</i>		Large thorn apple	
<i>Datura stramonium</i>		Common thorn apple	
<i>Digitaria sanguinalis</i>		Crab fingergrass	
<i>Eleusine indica</i>		Goose grass	
<i>Eleusine coracana</i>		Goose grass	
<i>Panicum leavifolium</i>		Sweet buffalo grass	
<i>Panicum shinzii</i>		Sweet buffalo grass	
<i>Portulaca oleracea</i>		Purslane	
<i>Tagetes minuta</i>		Tall Khaki weed	
<i>Urochloa panicoides</i>		Annual signalgrass	
Re-cropping intervals:			
Maize, Carrots, Tomatoes, Beetroot, Asparagus and Soybeans			6 months
Cruciferae, Cucurbits, Peas, Beans, Wheat, Onions, Lettuce, Tobacco and Strawberries			12 months

Metribuzin 480 SC - * 300 ml / ha = 11 to 20 % clay; 400 ml / ha = 21 to 35 % clay.

2. SUNFLOWERS

NOTES

- Please refer to the **Radical 250 EC** label for **WARNINGS, PRECAUTIONS, USE RESTRICTIONS and DIRECTIONS FOR USE.**

Table 2: PENTIUM 960 EC plus Radical 250 EC recommendations for use in Sunflowers:

Soil Type & % Clay	PENTIUM 960 EC l / ha	Radical 250 EC l / ha
5 to 20	0.6 to 0.8	1.0
> 20	0.8 to 1.3	1.25

REMARKS
Do not use Radical 250 EC:

- in seed, birdseed or confectionary type sunflowers.
- on sunflowers which have been planted in very shallow soil.

3. POTATOES

NOTES

- **Pre-emergence in respect of weeds:**

Apply 1.2 litres per hectare, under dry land conditions, pre-emergence of both potatoes and weeds, after the first summer rains.

4. MAIZE

4.1 Post-emergence application of PENTIUM 960 EC in a tank mixture with Terbucide Plus 900 WDG that can be used after a pre-emergence application of Pentium Plus 915 EC in a tank mixture with Terbucide Plus 900 WDG as in the table below.

NOTES

- Apply at least 150 litres water per hectare during the pre-emergence application and 200 litres water per hectare during the post-emergence application.
- The lower rates should be used on sandy soils and the higher rates on loamy / sandy clay soil.
- Please refer to **Terbucide Plus 900 WDG** and **Pentium Plus 915 EC** labels for a list of additional weeds controlled by these products, as well as for **WARNINGS, PRECAUTIONS, USE RESTRICTIONS and DIRECTIONS FOR USE.**

PRE-EMERGENCE APPLICATION		
<i>Pentium Plus 915 EC</i> 700 to 900 ml / ha	PLUS	<i>Terbucide Plus 900 WDG</i> 300 g / ha
FOLLOWED BY		
POST-EMERGENCE APPLICATION		
PENTIUM 960 EC 400 to 500 ml / ha	PLUS	<i>Terbucide Plus 900 WDG</i> 400 g / ha
WEEDS CONTROLLED		
Botanical name	Common name	
<i>Acanthospermum hispidum</i>	Upright starbur	
<i>Citrullus lanatus</i>	Wild watermelon	
<i>Crotalaria sphaerocarpa</i>	Mealie crotalaria	
<i>Cyperus esculentus*</i>	Yellow nutsedge	
<i>Datura ferox</i>	Large thorn apple	
<i>Digitaria sanguinalis</i>	Crab fingergrass	
<i>Eleusine indica</i>	Goose grass	
<i>Ipomoea purpurea</i>	Common morning glory	
<i>Panicum schinzii (= laevifolium)</i>	Sweet buffalo grass	
<i>Portulaca oleracea</i>	Purslane	
<i>Schkuhria pinnata</i>	Dwarf marigold	
<i>Tagetes minuta</i>	Tall Khaki weed	
<i>Tribulus terrestris*</i>	Dubbeltjie	
Re-cropping intervals:		
The listed re-cropping intervals are valid only if the correct dosage rate of Terbucide Plus 900 WDG (Atrazine + Terbutylazine) according to soil type was applied and normal or above average rainfall occurred, after application.		
Grain sorghum	6 months	
Sunflowers, Groundnuts, Soybeans, Potatoes, Dry beans, Forage sorghum and Small grains	18 months	
Other crops not listed	24 months	
Maize & Sugarcane	None	

* Variable control of these weeds.

4.2 Post-emergence application of PENTIUM 960 EC in a tank mixture with Terbusien Super 600 SC or Terbucide Plus 900 WDG and Lumen 420 EC.

NOTES

- Apply post-emergence after the crop has emerged when the weeds are between the 4 to 6 leaf stage.
- At plant – It is recommended to follow a pre-emergence herbicide programme.
- Ensure total coverage of the weed foliage.
- Do not apply **Lumen 420 SC** when maize or weeds are under stress (cold, drought, etc.).
- **Lumen 420 SC** may cause chlorosis of maize leaves. These symptoms are of a transitory nature and yield will not be affected.
- Do not apply **Lumen 420 SC** when maize or weeds are under stress (cold, drought, etc.).
- Apply in at least 200 litres water per hectare, ensuring thorough coverage.
- Refer to the **Terbucide Plus 900 WDG** and **Lumen 420 EC** labels for a list of additional weeds controlled by these products, as well as for **WARNINGS, PRECAUTIONS, USE RESTRICTIONS and DIRECTIONS FOR USE.**

PENTIUM 960 EC 510 ml / ha	OR		PLUS	PLUS	PLUS
	Terbucide Plus 900 WDG 540 g / ha	Terbusien Super 600 SC 800 ml / ha	Lumen 420 SC 180 ml / ha	Destinaire® 1 %	Interlock® 0.3 %
WEEDS CONTROLLED					
Botanical name			Common name		
<i>Acanthospermum hispidum</i>			Upright starbur		
<i>Amaranthus hybridus</i>			Common pigweed		
<i>Argemone ochroleuca</i>			White flowered Mexican poppy		
<i>Bidens pilosa</i>			Common blackjack		
<i>Chenopodium album</i>			White goosefoot		
<i>Cleome monophylla</i>			Spindlepod		
<i>Commelina benghalensis</i>			Bengal wandering Jew		
<i>Crotalaria sphaerocarpa</i>			Mealie Crotalaria		
<i>Cyperus esculentus*</i>			Yellow nutsedge		
<i>Dactyloctenium aegypticum</i>			Crowfoot		
<i>Datura ferox</i>			Large thorn apple		
<i>Datura stramonium</i>			Thorn apple		
<i>Digitaria sanguinalis</i>			Crab fingergrass		
<i>Dysphania x bonteii</i>			-		
<i>Echinochloa colona</i>			Marsh grass		
<i>Eleusine coracana</i>			Goose grass		
<i>Eleusine indica</i>			Goose grass		
<i>Galinsoga parviflora</i>			Small-flowered quickweed		
<i>Ipomoea obscura</i>			Small white morning glory		
<i>Ipomoea purpurea</i>			Morning glory		
<i>Nicandra physaloides</i>			Apple of Peru		
<i>Malva parviflora</i>			Small mallow		
<i>Panicum schinzii (= laevifolium)</i>			Sweet buffalo grass		
<i>Physalis angulate</i>			Wild gooseberry		
<i>Portulaca oleracea</i>			Purslane		
<i>Richardia brachiensis</i>			Mexican richardia		
<i>Schkuhria pinnata</i>			Dwarf marigold		
<i>Setaria pumila (=pallide-fusca)</i>			Palmgrass		
<i>Setaria pumila</i>			Garden bristle grass		
<i>Tagetes minuta</i>			Tall Khaki weed		
<i>Tribulus terrestris*</i>			Dubbeltjie		
<i>Xanthium strumarium*</i>			Cocklebur		
Re-cropping intervals: See above under 4.1.					

* Variable control of these weeds.

4.3 Post-emergence application of PENTIUM 960 EC plus Terbucide Plus 900 WDG plus Cantron® 480 SC, plus Villa 51 in maize for extended control of annual grass weeds.

NOTES

- Apply this post-emergence application as a follow up to a pre-emergence application of **Terbucide Plus 900 WDG** in a tank mixture with **Pentium Plus 915 EC OR Metolachlor 915 EC OR Metolachlor 800 EC OR Premium 840 EC PLUS Cantron® 480 SC** as indicated on the registered labels.
- Apply tank mixture post-emergence in the 2- to 6-leaf stage for broadleaf weeds, and 2- to 3-leaf stage for grass weeds.
- To improve control of larger broadleaf weeds, Morning glory and other problem weeds add 250 ml **2,4-D Amine 480 SL** to the tank mixtures as listed below (**DO NOT** add any surfactant when **2,4-D Amine 480 SL** is used in a tank mixture).
- Certain weeds may not be controlled effectively at the lower dosage rates.
- Refer to the **Terbucide Plus 900 WDG** and **Cantron® 480 SC** labels for a list of additional weeds controlled by these products, as well as for **WARNINGS, PRECAUTIONS, USE RESTRICTIONS and DIRECTIONS FOR USE.**

PENTIUM 960 EC 410 to 510 ml / ha	PLUS Terbucide Plus 900 WDG 540 g / ha	PLUS Cantron® 480 SC 210 to 260 ml / ha	PLUS Villa 51 0.1%
WEEDS CONTROLLED Above-mentioned plus:			
Botanical name		Common name	
<i>Amaranthus hybridus</i>		Common pigweed	
<i>Bidens bipinnata</i>		Spanish blackjack	
<i>Bidens pilosa</i>		Blackjack	
<i>Chloris virgata</i> **		Feathertop Chloris	
<i>Citrullus lanatus</i>		Wild watermelon	
<i>Cleome monophylla</i>		Spindlepod	
<i>Commelina benghalensis</i> *		Benghal wandering Jew	
<i>Crotalaria sphaerocarpa</i>		Mealie crotalaria	
<i>Cyperus esculentus</i> **		Yellow 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>Galinsoga parviflora</i>		Gallant soldier	
<i>Hibiscus cannabinus</i> **		Kenaf	
<i>Hibiscus trionum</i>		Bladder weed	
WEEDS CONTROLLED Above-mentioned plus:			
Botanical name		Common name	
<i>Ipomoea purpurea</i>		Common morning glory	
<i>Tagetes minuta</i>		Tall Khaki weed	
<i>Tribulus terrestris</i> **		Dubbeltjie	
<i>Urochloa panicoides</i> **		Herringbone grass	
<i>Xanthium strumarium</i> **		Cocklebur	
Re-cropping intervals: See above under 4.1.			

* Only at highest dosage rate. & ** Variable control of these weeds (up to 80 % suppression for a period of 8 weeks).

4.4 Post-emergence application of PENTIUM 960 EC in a tank mixture with Terbuticide Plus 900 WDG plus Cantron® Smart 500 SC plus Velocity® Super in GLYPHOSATE TOLERANT maize for control of annual broadleaf and grass weeds:

NOTES

- **IMPORTANT:** This recommended spray mixture can only be applied in genetically modified maize cultivars that are certified as being tolerant to the herbicide active ingredient Glyphosate.
- Apply this post-emergence application as a follow up to a pre-emergence application of **Terbuticide Plus 900 WDG** in a tank mixture with **Pentium Plus 915 EC OR Metolachlor 915 EC OR Metolachlor 800 EC OR Premium 840 EC PLUS Cantron® Smart 480 SC** as indicated on the registered labels.
- Apply tank mixture post-emergence in the 2- to 6-leaf stage for broadleaf weeds, and 2- to 3-leaf stage for grass weeds.
- To improve control of larger broadleaf weeds, Morning glory and other problem weeds add 250 ml **2,4-D Amine 480 SL** to the tank mixtures as listed below (**DO NOT** add any surfactant when **2,4-D Amine 480 SL** is used in a tank mixture).
- Certain weeds may not be controlled effectively at the lower dosage rates.
- Refer to the **Cantron® Smart 500 SC** and **Terbuticide Plus 900 WDG** labels for a list of additional weeds controlled by these products, as well as for **WARNINGS, PRECAUTIONS, USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

PENTIUM 960 EC 410 to 500 ml / ha	PLUS	PLUS	PLUS
	Terbuticide Plus 900 WDG 500 g / ha	Cantron® Smart 500 SC 2.5 l / ha	Velocity® Super 2 % OR Velocity® DryMax 1 % OR Class Act® NG 1 to 2 %
WEEDS CONTROLLED Above-mentioned plus:			
Botanical name		Common name	
<i>Amaranthus hybridus</i>		Common pigweed	
<i>Bidens bipinnata</i>		Spanish blackjack	
<i>Bidens pilosa</i>		Blackjack	
<i>Chenopodium album</i>		White goosefoot	
<i>Chloris virgata**</i>		Feathertop Chloris	
<i>Citrullus lanatus</i>		Wild watermelon	
<i>Cleome monophylla</i>		Spindlepod	
<i>Commelina benghalensis*</i>		Benghal wandering Jew	
<i>Crotalaria sphaerocarpa</i>		Mealie crotalaria	
<i>Cyperus esculentus**</i>		Yellow 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>Galinsoga parviflora</i>		Gallant soldier	
<i>Hibiscus cannabinus**</i>		Kenaf	
<i>Hibiscus trionum</i>		Bladder weed	
<i>Ipomoea purpurea</i>		Common morning glory	
<i>Panicum schinzii (= laevifolium)</i>		Sweet buffalo grass	
<i>Portulaca oleracea</i>		Purslane	
<i>Richardia brasiliensis</i>		Mexican richardia	
<i>Tagetes minuta</i>		Tall Khaki weed	
<i>Tribulus terrestris**</i>		Dubbeltjie	
<i>Urochloa panicoides**</i>		Herringbone grass	
<i>Xanthium strumarium**</i>		Cocklebur	

Re-cropping intervals:

See above under 4.1.

* Only at highest dosage rate.

** Variable control of these weeds (up to 80 % suppression for a period of 8 weeks).

4.5 Post-emergence application of PENTIUM 960 EC plus Cantron® 480 SC plus Terbusien Super 600 SC plus Villa 51 in maize for extended control of annual grass weeds:**NOTES**

- Apply this post-emergence application as a follow up to a pre-emergence application of **Cantron® 480 SC** in a tank mixture with **Pentium Plus 915 EC OR Metolachlor 915 EC** as indicated on the registered labels.
- To improve control of larger broadleaf weeds, Morning glory and other problem weeds add 250 ml **2,4-D Amine 480 SL** to the tank mixtures as listed below (**DO NOT** add **Villa 51** or any other surfactant when **2,4-D Amine 480 SL** is used in a tank mixture).
- Certain weeds may not be controlled effectively at the lower dosage rates.
- Refer to the **Terbusien Super 600 SC** and **Cantron® 480 SC** labels for dosage rates and a list of additional weeds controlled by this product, as well as for **WARNINGS, PRECAUTIONS, USE RESTRICTIONS and DIRECTIONS FOR USE**

PENTIUM 960 EC 410 to 510 ml / ha	PLUS Cantron® 480 SC 210 to 260 ml / ha	PLUS Terbusien Super 600 SC 800 ml / ha	PLUS Villa 51 0.1 %
WEEDS CONTROLLED			
Above-mentioned plus:			
Botanical name		Common name	
<i>Amaranthus hybridus</i>		Common pigweed	
<i>Bidens bipinnata</i>		Spanish blackjack	
<i>Bidens pilosa</i>		Blackjack	
<i>Chloris virgata</i> **		Feathertop Chloris	
<i>Citrullus lanatus</i>		Wild watermelon	
<i>Cleome monophylla</i>		Spindlepod	
<i>Commelina benghalensis</i> *		Benghal wandering Jew	
<i>Crotalaria sphaerocarpa</i>		Mealie crotalaria	
<i>Cyperus esculentus</i> **		Yellow 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>Galinsoga parviflora</i>		Gallant soldier	
<i>Hibiscus cannabinus</i> **		Kenaf	
<i>Hibiscus trionum</i>		Bladder weed	
<i>Ipomoea purpurea</i>		Common morning glory	
<i>Tagetes minuta</i>		Tall Khaki weed	
<i>Tribulus terrestris</i> **		Dubbeltjie	
<i>Urochloa panicoides</i> **		Herringbone grass	
<i>Xanthium strumarium</i> **		Cocklebur	
Re-cropping intervals:			
See above under 4.1.			

* Only at highest dosage rate.

** Variable control of these weeds (up to 80 % suppression for a period of 8 weeks).

4.6 Post-emergence application of PENTIUM 960 EC plus Cantron® 480 SC plus Gatling 700 SC in maize for extended control of annual grass and broadleaf weeds:

NOTES

- Apply this post-emergence application as a follow up to a pre-emergence application of **Cantron® 480 SC** in a tank mixture with **Pentium Plus 915 EC** or **Metolachlor 915 EC** as indicated on the registered labels.
- To improve control of larger broadleaf weeds, Morning glory and other problem weeds add 250 ml **2,4-D Amine 480 SL** to the tank mixtures as listed below (do not add **Villa 51** or any other surfactant when **2,4-D Amine 480 SL** is used in a tank mixture).
- Certain weeds may not be controlled effectively at the lower dosage rates.
- Higher dosage rates of **Gatling 700 SC** may be applied for control of additional broadleaf weed species and longer residual control of broadleaf weeds. Refer to the **Gatling 700 SC** label for dosage rates **according to soil profile**, and a list of additional weeds controlled by this product, as well as for **USE RESTRICTIONS** and **DIRECTIONS FOR USE**.
- Refer to the **Cantron® 480 SC** and **Gatling 700 SC** labels for a list of additional weeds controlled by these products, as well as for **WARNINGS, PRECAUTIONS, USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

PENTIUM 960 EC 410 ml / ha	PLUS	PLUS	PLUS
	Cantron® 480 SC 210 to 260 ml / ha	Gatling 700 SC 1.0 l / ha	Villa 51 0.1 %
WEEDS CONTROLLED			
Botanical name		Common name	
<i>Amaranthus hybridus</i>		Common pigweed	
<i>Chenopodium album</i>		White goosefoot	
<i>Commelina benghalensis*</i>		Bengal wandering jew	
<i>Eleusine indica</i>		Goose grass	
<i>Portulaca oleracea</i>		Purslane	
<i>Tribulus terrestris</i>		Dubbeltjie	
<i>Urochloa panicoides</i>		Garden Urochloa	
Re-cropping intervals:			
Grain sorghum		12 months	
Sunflowers, Groundnuts, Soybeans, Potatoes, Dry beans, Forage sorghum and Small grains		18 months	
Other crops not listed		24 months	
Maize & Sugarcane		None	

* Only at highest dosage rate.

4.7 Post-emergence application of PENTIUM 960 EC in a tank mixture with Cantron® 480 SC, Terbusien Super 600 SC and Villa 51 that can be used after a pre-emergence application of Cantron® 480 SC and Pentium Plus 915 EC.

NOTES

- Apply this post-emergence application as a follow-up to a pre-emergence application of **Cantron® 480 SC** in a tank mixture with **Pentium Plus 915 EC**.
- Apply at least 150 litres water per hectare during the pre-emergence application and 200 litres water per hectare during the post-emergence application.
- Refer to the **Cantron® 480 SC, Terbusien Super 600 SC** and **Pentium Plus 915 EC** labels for a list of additional weeds controlled by these products, as well as for **WARNINGS, PRECAUTIONS, USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

PRE-EMERGENCE APPLICATION						
PENTIUM PLUS 915 EC 650 ml / ha	PLUS	Cantron® 480 SC 260 ml / ha	PLUS	Interlock® 250 to 350 ml / ha		
FOLLOWED BY						
POST-EMERGENCE APPLICATION						
PENTIUM 960 EC 650 ml / ha	PLUS	Terbusien Super 600 SC 800 ml / ha	PLUS	Cantron® 480 SC 260 ml / ha	PLUS	Villa 51 0.1 %
WEEDS CONTROLLED						
Above-mentioned plus:						
Botanical name			Common name			
<i>Amaranthus hybridus</i>			Common pigweed			
<i>Citrullus lanatus</i>			Wild watermelon			
<i>Commelina benghalensis</i>			Benghal wandering jew			
<i>Convolvulus arvensis</i>			Field bindweed			
<i>Crotalaria sphaerocarpa</i>			Mealie crotalaria			
<i>Cyperus esculentus**</i>			Yellow nutsedge			
<i>Datura ferox</i>			Large thorn apple			
<i>Digitaria sanguinalis</i>			Crab fingergrass			
<i>Eleusine coracana</i>			Goose grass			
<i>Ipomoea purpurea</i>			Common morning glory			
<i>Portulaca oleracea</i>			Purslane			
<i>Setaria verticillata</i>			Bur bristle grass			
<i>Tagetes minuta</i>			Tall Khaki weed			
<i>Xanthium strumarium</i>			Cocklebur			
Re-cropping intervals: See above under 4.1.						

4.8 Post-emergence application of PENTIUM 960 EC plus Cantron® 480 SC plus Terbuticide 600 WDG plus Villa 51 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 **Pentium Plus 915 EC OR Metolachlor 915 EC** as indicated on the registered labels.
- Refer to the **Terbuticide 600 WDG** labels for list of additional weeds controlled by these products, as well as for **WARNINGS, PRECAUTIONS, USE RESTRICTIONS and DIRECTIONS FOR USE.**

PENTIUM 960 EC 260 to 520 ml / ha	PLUS Terbuticide 600 WDG 800 g / ha	PLUS Cantron® 480 SC 210 to 260 ml / ha	PLUS Villa 51 0.1 %
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>Cyperus esculentus*</i>		Yellow nutsedge	
<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: See above under 4.1.			

* Only at highest dosage rate.

4.9 Post-emergence application of PENTIUM 960 EC plus Cantron® 480 SC plus Crown 750 WDG plus Terbuticide 600 WDG or Terbusien Super 600 SC plus Villa 51 or Summit Super for the control of Yellow and Purple nutsedge and certain broadleaf weeds in maize

NOTE

- Apply this post-emergence application as a follow up to a pre-emergence application of **Cantron® 480 SC** in tank mixture with **Pentium Plus 915 EC OR Metolachlor 915 EC** as indicated on the registered labels.
- For optimum control of Nutsedge, apply **Cantron® 480 SC** plus **Crown 750 WDG** plus **Terbuticide 600 WDG** or **Terbusien Super 600 SC** on actively growing Nutsedge under moist conditions, 3 to 5 weeks after planting. Ensure that the application is made after the majority of the Nutsedges have germinated but before flowering. New germination of Nutsedge may occur if application was performed too early. Later applications, when the Nutsedge is in flower, will also give sub-optimal results.
- Refer to the **Crown 750 WDG, Terbuticide 600 WDG or Terbusien Super 600 SC** labels for **WARNINGS, PRECAUTIONS, USE RESTRICTIONS and DIRECTIONS FOR USE.**

	PLUS	PLUS	PLUS	PLUS
PENTIUM 960 EC 260 to 520 ml / ha	Crown 750 WDG 50 g / ha	Terbuticide 600 WDG 800 g / ha OR Terbusien Super 600 SC 800 ml / ha	Cantron® 480 SC 260 ml / ha	Villa 51 0.1 % OR Summit Super 0.15 % to 0.3 %
WEEDS CONTROLLED				
THE FOLLOWING WEEDS ARE NORMALLY CONTROLLED AT THE DOSAGE RATE AS INDICATED ABOVE:				
Botanical name		Common name		
<i>Acanthospermum hispidum</i>		Upright starbur		
<i>Amaranthus hybridus</i>		Common pigweed		
<i>Amaranthus spinosus</i>		Thorny pigweed		
<i>Bidens pilosa</i>		Common blackjack		
<i>Cleome monophylla</i>		Single leaved cleome		
<i>Chenopodium album</i>		White goosefoot		
<i>Chenopodium carinatum</i>		Green goosefoot		
<i>Commelina benghalensis</i> *		Wandering Jew		
<i>Cyperus esculentus</i> *		Yellow nutsedge		
<i>Cyperus rotundus</i> *		Purple nutsedge		
<i>Datura ferox</i>		Large thorn apple		
<i>Galinsoga parviflora</i>		Gallant soldier		
<i>Ipomoea purpurea</i>		Common morning glory		
<i>Ipomoea hederacea</i>		Ivy-leaved morning glory		
<i>Portulaca oleracea</i>		Purslane		
<i>Richardia brasiliensis</i>		Tropical Richardia		
<i>Schkuhria pinnata</i>		Dwarf marigold		
<i>Portulaca oleracea</i>		Purslane		
<i>Richardia brasiliensis</i>		Tropical Richardia		
<i>Tagetes minuta</i>		Tall Khaki weed		
<i>Xanthium strumarium</i> *		Cocklebur		
Re-cropping intervals:				
The listed re-cropping intervals are valid only if the correct dosage rate of Terbuticide 600 WDG OR Terbusien Super 600 SC (Atrazine + Terbutylazine) according to soil type was applied and normal or above average rainfall occurred, after application.				
Grain sorghum			12 months	
Sunflowers, Groundnuts, Soybeans, Potatoes, Dry beans, Forage sorghum and Small grains			18 months	
Other crops not listed			24 months	
Maize			1 month	

* Only at highest dosage rate.

4.10 Post-emergence application of PENTIUM 960 EC plus Cantron® 480 SC plus Bromoxynil 225 EC plus Terbuticide 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 tank mixture with **Pentium Plus 915 EC OR Metolachlor 800 EC** or **Metolachlor 915 EC** or as indicated on the registered labels.
- **Do not** add **Villa 51** or any other wetting agent to any mixture containing **Bromoxynil 225 EC** as this may cause damage to the crop.
- Refer to the **Bromoxynil 225 EC** and **Terbusien Super 600 SC** or **Terbuticide 600 WDG** labels for a list of additional weeds controlled by these products, as well as for **WARNINGS, PRECAUTIONS, USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

PENTIUM 960 EC 400 to 520 ml / ha	PLUS		PLUS	
	Cantron® 480 SC 210 to 260 ml / ha	Bromoxynil 225 EC 500 ml / ha	Terbuticide 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 intervals:				
The listed re-cropping intervals are valid only if the correct dosage rate of Terbuticide 600 WDG OR Terbusien Super 600 SC (Atrazine + Terbutylazine) according to soil type was applied and normal or above average rainfall occurred, after application.				
Grain sorghum			6 months	
Sunflowers, Groundnuts, Soybeans, Potatoes, Dry beans, Forage sorghum and Small grains			18 months	
Other crops not listed			24 months	

* Only at highest dosage rate.

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

4.11 Post-emergence application of PENTIUM 960 EC plus Cantron® 480 SC plus Slash Plus 540 SL plus Terbuticide 600 WDG plus in GLYPHOSATE TOLERANT maize cultivars:

NOTES

- **IMPORTANT:** This tank mixture of **PENTIUM 960 EC plus Cantron® 480 SC plus Slash Plus 540 plus Terbuticide 600 WDG** may only be applied on certified maize cultivars containing **GLYPHOSATE TOLERANT** genetic material.
- This treatment can be applied as a stand-alone post-emergence application or as a follow up to a pre-emergence application of **Cantron® 480 SC** in tank mixture with **Pentium Plus 915 EC OR Metolachlor 915 EC**, as indicated on the registered labels.
- Use the higher dosage rate for more difficult weeds or higher weed pressure situations. Apply to young actively growing weeds.
- Refer to the **Slash Plus 540 SL** and **Terbuticide 600 WDG** labels for **WARNINGS, PRECAUTIONS, USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

PENTIUM 960 EC 330 to 490 ml / ha	PLUS Slash Plus 540 SL 1300 to 1700 ml / ha	PLUS Terbuticide 600 WDG 800 g / ha	PLUS Cantron® 480 SC 210 to 260 ml / ha
WEEDS CONTROLLED			
Botanical name		Common name	
<i>Acanthospermum hispidium</i>		Upright starbur	
<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>Chenopodium carinatum</i>		Green goosefoot	
<i>Commelina benghalensis</i> *		Bengal wandering Jew	
<i>Cyperus esculentus</i> *		Yellow nutsedge	
<i>Datura ferox</i>		Large thorn apple	
<i>Digitaria sanguinalis (adscendens)</i>		Crab finger grass	
<i>Eleusine indica</i>		Goose grass	
<i>Galinsoga parviflora</i>		Gallant soldier	
<i>Ipomoea obscura</i>		Wild Petunia	
<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:			
The listed re-cropping intervals are valid only if the correct dosage rate of Terbuticide 600 WDG (Terbutylazine) according to soil type was applied and normal or above average rainfall occurred, after application.			
Grain sorghum			18 months
Sunflowers, Groundnuts, Soybeans, Potatoes, Dry beans, Forage sorghum and Small grains			12 months
Other crops not listed			24 months

* Only at highest dosage rate.

4.12 Post-emergence applications of PENTIUM 960 EC that can be used after a pre-emergence application of Pentium Plus 915 EC.

NOTES

- Use the higher application rates of **Pentium Plus 915 EC** for improved control of *Cyperus esculentus* (Yellow nutsedge), or for improved control of heavy infestations of *Digitaria sanguinalis* (Crabfinger-grass), or where **Pentium Plus 915 EC** is pre-plant incorporated, or where organic matter in the soil exceeds 1.0 %.
- Apply **PENTIUM 960 EC** in a tank mixture with **Terbusien Super 600 SC** early post-emergence, after the first cultivation.
- Early post-emergence treatments give more effective broadleaf weed control on soils with > 30 % clay.
- Under adverse weather conditions or with poor initial control, on soils with 31 to 40 % and 41 to 50 % clay, the application rates of **Terbusien Super 600 SC** can be increased to 4.0 and 5.0 litres per hectare, respectively.
- **If Triazine sensitive crops such as groundnuts, kidney beans, cotton, dry beans, soybeans, sunflowers, wheat, vegetables, cotton and tobacco are planted as follow-up crops, the application rates of Agrazine 500 SC and Terbusien Super 600 SC should not exceed 2.0 litres per hectare. These low rates may still damage follow-up crops on the very sandy soils of the North-Western Free State or on calcareous soils and weed control may not always be satisfactory.**
- **If heavy rain occurs on light, sandy soils (< 15 % clay and < 0.5 % organic matter) poor weed control may result and a split application is preferred.**
- Use a suitable penetrant with all post-emergence applications, with the exception of mixtures containing **2,4-D Amine 480 SL**.
- Consult the **Terbusien Super 600 SC, Agrazine 500 SC and 2,4-D Amine 480 SL** labels for **WARNINGS, PRECAUTIONS, USE RESTRICTIONS and DIRECTIONS FOR USE.**

Soil Type	% Clay	PRE-EMERGENCE	POST-EMERGENCE	
		<i>Pentium Plus 915 EC</i> ℓ / ha	PENTIUM 960 EC ℓ / ha	PLUS <i>Terbusien Super 600 SC</i> ℓ / ha
Sand	0 to 10	0.4 to 0.5	0.3	2.2
Loamy sand / sandy loam	11 to 20	0.5 to 0.7	0.3	2.5
Sandy clay loam	21 to 30	0.7 to 0.8	0.35	3.0
Sandy clay loam / sandy clay	31 to 40	0.8 to 0.9	0.35 to 0.5	3.0
Sandy clay / turf	41 to 50	0.9 to 1.0	0.35 to 0.5	3.0
Re-cropping intervals: The listed re-cropping intervals are valid only if the correct dosage rate of Terbusien Super 600 SC (Atrazine + Terbutylazine) according to soil type was applied and normal or above average rainfall occurred, after application.				
Grain sorghum				6 months
Sunflowers, Groundnuts, Soybeans, Potatoes, Dry beans, Forage sorghum and Small grains				18 months
Other crops not listed				24 months

4.13 **PENTIUM 960 EC plus Terbusien Super 600 SC preceded by EPTC 720 EC (L 4859).**

NOTES

- Apply **EPTC 720 EC** at normal recommended rates on soils up to 30 % clay and follow up early post-emergence with a tank mixture containing **PENTIUM 960 EC** and **Terbusien Super 600 SC**.
- Refer to the **Terbusien Super 600 SC** and **EPTC 720 EC WARNINGS, PRECAUTIONS, USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

Soil Type	% Clay	PENTIUM 960 EC ℓ / ha	PLUS Terbusien Super 600 SC ℓ / ha
Sand	0 to 10	0.6	2.2
Loamy sand / sandy loam	11 to 20	0.8	2.5
Sandy clay loam	21 to 30	0.9	3.0
Re-cropping intervals: The listed re-cropping intervals are valid only if the correct dosage rate of Terbusien Super 600 SC (Atrazine + Terbutylazine) according to soil type was applied and normal or above average rainfall occurred, after application.			
Grain sorghum			6 months
Sunflowers, Groundnuts, Soybeans, Potatoes, Dry beans, Forage sorghum and Small grains			18 months
Other crops not listed			24 months
Maize & Sugarcane			None

4.14 **Post-emergence application of PENTIUM 960 EC in a tank mixture with Terbusien Super 600 SC preceded by Pentium Ultra 660 SC.**

NOTES

- **Pentium Ultra 660 SC** can only be applied post-emergence if broadleaf weeds have not developed beyond the 4-leaf stage and grasses have not yet emerged. Where grasses have already emerged and broadleaf weeds have developed beyond the 4-leaf stage, these weeds must first be destroyed by cultivation and **Pentium Ultra 660 SC** then applied on to clean soil surface. When **Pentium Ultra 660 SC** is applied post-emergence to the weeds, a suitable surfactant, e.g., **Villa 51**, should be added to the spray mixture.
- In the Northwest Province and North-western Free State, on 11 to 20 % clay soils where the carry-over effect of **triazines** to groundnuts or other sensitive crops needs to be avoided, a maximum application rate of 2.7 litres per hectare **Pentium Ultra 660 SC** is recommended. On soils with high lime content these rates might however still damage follow-up crops.
- Refer to the **Pentium Ultra 660 SC** and **Terbusien Super 600 SC** labels for a list of additional weeds controlled by these products, as well as for **WARNINGS, PRECAUTIONS, USE RESTRICTIONS** and **DIRECTIONS FOR USE**.
- **IMPORTANT:** Ensure that sufficient fertilizer is band-placed near the seed at planting to promote vigorous seedling growth.

Table 1: Pentium Ultra 660 SC applied pre-emergence.

Soil type	% Clay	Overall application ℓ / ha
Light sand / sand	0 to 10	1.25
Loamy sand / sandy loam	11 to 20	1.7
Sandy clay loam	21 to 35	2.1
Sandy clay	>35	2.5

Table 2: Post emergence application of Terbusien Super 600 SC plus Pentium 960 EC for extended residual control of weeds after the initial pre-emergence application as listed in Table 1.

Soil type	% Clay	Terbusien Super 600 SC l / ha	Pentium 960 EC ml / ha
Light sand / sand	0 to 10	1.1	280
Loamy sand / sandy loam	11 to 20	1.3	380
Sandy clay loam	21 to 35	1.4	450
WEEDS NORMALLY CONTROLLED BY TANK MIXTURE (Pre-emergence application):			
Broadleaf weeds:			
<i>Acanthospermum australe</i>		Eight-seeded prostrate starbur	
<i>Acanthospermum glabratum</i>		Five-seeded prostrate starbur	
<i>Acanthospermum hispidum</i>		Upright starbur	
<i>Amaranthus deflexus</i>		Perennial pigweed	
<i>Amaranthus hybridus</i>		Common pigweed	
<i>Amaranthus thunbergii</i>		Red pigweed	
<i>Bidens bipinnata</i>		Spanish blackjack	
<i>Bidens pilosa</i>		Blackjack	
<i>Chenopodium album</i>		White goosefoot	
<i>Chenopodium carinatum</i>		Green goosefoot	
<i>Cleome monophylla</i>		Spindlepod	
<i>Cleome rubella</i>		Pretty lady	
* <i>Commelina benghalensis</i>		Bengal wandering Jew	
* <i>Cosmos bipinnatus</i>		Cosmos	
<i>Crotalaria sphaerocarpa</i>		Mealie Crotalaria	
* <i>Datura ferox</i>		Large thorn apple	
* <i>Datura stramonium</i>		Thorn apple	
<i>Galinsoga parviflora</i>		Gallant soldier	
<i>Gisekia pharnaceoides</i>		Gisekia	
<i>Hibiscus trionum</i>		Bladderweed	
<i>Nicandra physaloides</i>		Apple of Peru	
<i>Physalis angulata</i>		Wild gooseberry	
<i>Portulaca oleracea</i>		Purslane	
<i>Richardia brasiliensis</i>		Tropical Richardia	
<i>Schkuhria pinnata</i>		Dwarf marigold	
<i>Tagetes minuta</i>		Khaki weed	
Grasses:			
<i>Brachiaria eruciformes</i>		Sweet signal grass	
<i>Chloris virgata</i>		Feathertop Chloris	
<i>Dactyloctenium aegyptium</i>		Crowfoot	
<i>Digitaria sanguinalis</i>		Crab fingergrass	
<i>Echinochloa crusgallii</i>		Barnyard grass	
<i>Eleusine indica</i>		Goose grass	
<i>Panicum maximum</i>		Common buffalo grass	
<i>Panicum schinzi</i>		Sweet buffalo grass	
<i>Setaria pumila (=pallide-fusca)</i>		Red bristle grass	
<i>Setaria verticillata</i>		Sticky bristle grass	
<i>Sorghum bicolor</i>		Common wild sorghum	
<i>Tragus racemosus</i>		Large carrotseed grass	
<i>Urochloa panicoides</i>		Herringbone grass	
* If dry conditions prevail for a period of 7 to 14 days after pre-emergence application these weed species may not be adequately controlled, especially on heavy soils: Under abnormal wet conditions late-season weed control may be inadequate.			
Re-cropping intervals: The listed re-cropping intervals are valid only if the correct dosage rate of Terbusien Super 600 SC (Atrazine + Terbutylazine) according to soil type was applied and normal or above average rainfall occurred, after application.			
Grain sorghum			6 months

Sunflowers, Groundnuts, Soybeans, Potatoes, Dry beans, Forage sorghum and Small grains	18 months
Other crops not listed	24 months
Maize & Sugarcane	1 month

4.15 Post-emergence application of PENTIUM 960 EC plus Cantron® 480 SC plus Nicosulfuron 750 WDG plus Terbucide 600 WDG or Terbusien Super 600 SC plus Villa 51 for control of *Sorghum* species and certain broadleaf weeds in maize.

NOTES

- This treatment can be applied as a stand-alone post-emergence application or as a follow up to a pre-emergence application of **Cantron® 480 SC** in tank mixture with **Pentium Plus 915 EC OR Metolachlor 915 EC** as indicated on the registered labels.
- **This mixture cannot be applied by means of aerial application.**
- Apply with dropped nozzles (directed spray) in order to avoid spraying directly into plant funnel and to ensure that the weeds are not shielded from the spray by the crop's leaves.
- Adhere to all **WARNINGS, PRECAUTIONS, USE RESTRICTIONS** and **DIRECTIONS FOR USE** as indicated on the **Nicosulfuron 750 WDG, Terbucide 600 WDG or Terbusien Super 600 SC** labels. Refer to these labels for additional weeds controlled.

PENTIUM 960 EC 260 to 520 ml / ha	PLUS	PLUS		PLUS
	Nicosulfuron 750 WDG 60 g / ha	Terbucide 600 WDG 800 g / ha	OR Terbusien Super 600 SC 800 ml / ha	Cantron® 480 SC 260 ml / ha
PLUS 0.1 % Villa 51				
WEEDS NORMALLY CONTROLLED From seedling (1 to 2 leaves) to stage as indicated.				
Botanical name		Common name		Maximum size of weeds at time of application
Grasses:				
<i>Panicum schinzii</i>		Sweet buffalo grass		Up to tillering stage
<i>Rottboellia cochinchinensis</i>		Guineafowl grass		Up to 4 leaves
<i>Setaria pumila (=pallide-fusca)</i>		Red bristle grass		Up to 4 leaves
Broadleaf weeds:				
<i>Acanthospermum hispidum</i>		Upright starbur		6 leaf
<i>Amaranthus hybridus</i>		Common pigweed		4 leaves
<i>Amaranthus thunbergii</i>		Red pigweed		4 leaves
<i>Amaranthus deflexus</i>		Perennial pigweed		4 leaves
<i>Bidens pilosa</i>		Common blackjack		6 leaf
<i>Cleome monophylla</i>		Spindlepod		6 leaves
<i>Commelina benghalensis*</i>		Wandering Jew		6 leaf
<i>Datura ferox</i>		Large thorn apple		3 leaves
<i>Datura stramonium</i>		Thorn apple		4 leaves
<i>Galinsoga parvilifera</i>		Gallant soldier		6 leaf
<i>Portulaca oleracea</i>		Purslane		6 leaf
<i>Richardia brasiliensis</i>		Tropical Richardia		6 leaf
<i>Schkuhria pinnata</i>		Dwarf marigold		3 leaves
<i>Tagetes minuta</i>		Tall khakiweed		4 leaves
<i>Tribulus terrestris</i>		Common dubbeltjie		4 leaves
<i>Xanthium strumarium*</i>		Cocklebur		6 leaf

Sorghum species:		
<i>Sorghum bicolor</i>	Wild grain sorghum	Up to 7 leaves
<i>Sorghum halepense</i>	Johnson grass	Up to 7 leaves
Re-cropping intervals:		
The listed re-cropping intervals are valid only if the correct dosage rate of Terbucide 600 WDG and Terbusien Super 600 SC (Atrazine + Terbutylazine) according to soil type was applied and normal or above average rainfall occurred, after application.		
Grain sorghum		12 months
Sunflowers, Groundnuts, Soybeans, Potatoes, Dry beans, Forage sorghum and Small grains		18 months
Other crops not listed		24 months

* Only at highest dosage rate.

4.16 Post-emergence application of PENTIUM 960 EC plus Ortron 750 WDG plus Terbusien Super 600 SC plus Villa 51 in maize for extended control of annual grass weeds.

NOTES

- Apply this post-emergence application as a follow up to a pre-emergence application of **Ortron 750 WDG** in a tank mixture with **Pentium Plus 915 EC**, **Metolachlor 915 EC** OR **Pentium Ultra 660 SC** as indicated on the registered labels.
- Apply tank mixture post-emergence in the 2- to 6-leaf stage for broadleaf weeds, and 2- to 3-leaf stage for grass weeds.
- Certain weeds may not be controlled effectively at the lower dosage rates.
- Refer to **Ortron 750 WDG**, **Terbusien Super 600 SC** and **Villa 51** labels for additional weed species that can be controlled, as well as **WARNINGS, PRECAUTIONS, USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

PENTIUM 960 EC 410 to 510 ml / ha *	PLUS		
	Ortron 750 WDG 165 g/ha	Terbusien Super 600 SC 800 ml / ha	Villa 51 0.1 %
WEEDS CONTROLLED			
Botanical name		Common name	
<i>Acanthospermum hispidum</i>		Upright starbur	
<i>Amaranthus hybridus</i>		Common pigweed	
<i>Brachiaria eruciformis</i>		Sweet signal grass	
<i>Chenopodium album</i>		White goosefoot	
<i>Chenopodium carinatum</i>		Green goosefoot	
<i>Cleome monophylla</i>		Spindlepod	
<i>Commelina benghalensis</i> **		Benghal wandering Jew	
<i>Cyperus esculentus</i> ***		Yellow nutsedge	
<i>Digitaria sanguinalis</i>		Crab fingergrass	
<i>Datura ferox</i>		Large thorn apple	
<i>Echinochloa colona</i>		Marsh grass	
<i>Eleusine indica</i>		Goose grass	
<i>Eragrostis curvula</i>		Weeping love grass	
<i>Hibiscus cannabinus</i>		Kenaf	
<i>Hibiscus trionum</i>		Bladder weed	
<i>Nicandra physaloides</i>		Apple-of-Peru	
<i>Panicum schinzii</i>		Sweet buffalo grass	
<i>Physalis angulata</i>		Wild gooseberry	
<i>Polygonum aviculare</i>		Prostrate knotweed	
<i>Schkuhria pinnata</i>		Dwarf Marigold	
<i>Setaria pumila (=pallide-fusca)</i>		Red bristle grass	
<i>Setaria verticillata</i>		Sticky bristle grass	
<i>Tagetes minuta</i>		Tall Khaki weed	
<i>Triumfetta pilosa</i>		-	
<i>Xanthium strumarium</i> ***		Cocklebur	

Re-cropping intervals:	
The listed re-cropping intervals are valid only if the correct dosage rate of Terbusien Super 600 SC (Atrazine + Terbutylazine) according to soil type was applied and normal or above average rainfall occurred, after application.	
Grain sorghum	6 months
Sunflowers, Groundnuts, Soybeans, Potatoes, Dry beans, Forage sorghum and Small grains	18 months
Other crops not listed	24 months

* Use the low rate on sandy soils and the higher rate on loamy / sandy clay soil.

** Only at highest dosage rate.

*** Variable control of these weeds (up to 80 % suppression for a period of 8 weeks).

4.17 **Post-emergence application of Pentium 960 EC, Ortron 750 WDG and Terbucide Plus 900 WDG, preceded by a pre-emergence application of Pentium Plus 915 EC, Ortron 750 WDG and Terbucide Plus 900 WDG in maize for control of various weeds.**

NOTES

- **Ortron 750 WDG** can be applied as part of a pre-emergence tank mixture application or as pre- and post-emergence tank mixture application.
- Apply the tank mixture post-emergence in the 2- to 6-leaf stage for broadleaf weeds, and 2- to 3-leaf stage for grass weeds.
- Certain weeds may not be controlled effectively at the lower dosage rates.
- Refer to the **Ortron 750 WDG, Pentium Plus 915 EC, Terbucide Plus 900 WDG** labels for a list of additional weeds controlled by these products, **WARNINGS, PRECAUTIONS, USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

PRE-EMERGENCE APPLICATION						
Pentium Plus 915 EC 410 to 510 ml / ha	PLUS	Ortron 750 WDG 165 g / ha	PLUS	Terbucide Plus 900 WDG 540 g / ha	PLUS	Interlock® 200 to 300 ml / ha
FOLLOWED BY						
POST-EMERGENCE APPLICATION						
PENTIUM 960 EC 570 to 650 ml / ha *	PLUS	Ortron 750 WDG 165 g / ha	PLUS	Terbucide Plus 900 WDG 540 g / ha	PLUS	Villa 51 0.1 %
WEEDS CONTROLLED						
Botanical name			Common name			
<i>Acanthospermum hispidum</i>			Upright starburst			
<i>Amaranthus hybridus</i>			Common pigweed			
<i>Bidens pilosa</i>			Common blackjack			
<i>Commelina benghalensis</i>			Benghal wandering Jew			
<i>Crotalaria sphaerocarpa</i>			Mealie crotalaria			
<i>Cyperus esculentus**</i>			Yellow nutsedge			
<i>Datura ferox</i>			Large thorn apple			
<i>Datura stramonium**</i>			Common thorn apple			
<i>Digitaria sanguinalis</i>			Crab fingergrass			
<i>Eleusine indica</i>			Goose grass			
<i>Eleusine coracana</i>			Goose grass			
<i>Ipomoea purpurea**</i>			Common morning glory			
<i>Panicum schinzii</i>			Sweet buffalo grass			
<i>Setaria verticillata</i>			Sticky bristle grass			
<i>Tagetes minuta</i>			Tall Khaki weed			
<i>Tribulus terrestris</i>			Dubbeltjie / Devil's thorn			
<i>Xanthium strumarium</i>			Cocklebur			

Re-cropping intervals:

The listed re-cropping intervals are valid only if the correct dosage rate of **Terbucide Plus 900 WDG (Atrazine + Terbutylazine)** according to soil type was applied and normal or above average rainfall occurred, after application.

Grain sorghum	6 months
Sunflowers, Groundnuts, Soybeans, Potatoes, Dry beans, Forage sorghum and Small grains	18 months
Other crops not listed	24 months

* Use the low rate on sandy soils and the higher rate on loamy / sandy clay soil.

** Variable control of these weeds.

4.18 Post-emergence application of PENTIUM 960 EC plus Ortron 750 WDG plus Terbucide Plus 900 WDG plus Crown 750 WDG plus Villa 51 in maize for control of various weeds.

NOTES

- Apply the tank mixture post-emergence in the 2- to 6-leaf stage for broadleaf weeds, and 2- to 3-leaf stage for grass weeds.
- Certain weeds may not be controlled effectively at the lower dosage rates.
- Refer to **Ortron 750 WDG, Terbucide Plus 900 WDG, Crown 750 WDG** and **Villa 51** labels for a list of additional weeds controlled by these products, **WARNINGS, PRECAUTIONS, USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

PENTIUM 960 EC 410 to 510 ml / ha *	PLUS			
	Ortron 750 WDG 165 g / ha	Terbucide Plus 900 WDG 540 g / ha	Crown 750 WDG 50 g / ha	Villa 51 0.1 %
WEEDS CONTROLLED				
Botanical name		Common name		
<i>Acanthospermum hispidum</i>		Upright starburst		
<i>Amaranthus hybridus</i>		Common pigweed		
<i>Cyperus esculentus</i> **		Yellow nutsedge		
<i>Datura stramonium</i> **		Common thorn apple		
<i>Ipomoea purpurea</i>		Common morning glory		
<i>Schkuhria pinnata</i>		Dwarf Marigold		
<i>Tagetes minuta</i> **		Tall Khaki weed		
<i>Xanthium strumarium</i> **		Cocklebur		
Re-cropping intervals:				
The listed re-cropping intervals are valid only if the correct dosage rate of Terbucide Plus 900 WDG (Atrazine + Terbutylazine) according to soil type was applied and normal or above average rainfall occurred, after application.				
Grain sorghum		6 months		
Sunflowers, Groundnuts, Soybeans, Potatoes, Dry beans, Forage sorghum and Small grains		18 months		
Other crops not listed		24 months		

* Use the low rate on sandy soils and the higher rate on loamy / sandy clay soil.

** Variable control of these weeds.

4.19 Post-emergence application of Pentium 960 EC plus Ortron 750 WDG plus Terbucide Plus 900 WDG plus Nicosulfuron 750 WDG plus Villa 51 in maize for control of various weeds.

NOTES

- Apply **PENTIUM 960 EC** post-emergence in the 2- to 6-leaf stage for broadleaf weeds, and 2- to 3-leaf stage for grass weeds.
- Certain weeds may not be controlled effectively at the lower dosage rates.
- Refer to **Terbucide Plus 900 WDG**, **Nicosulfuron 750 WDG** and **Villa 51** labels for a list of additional weeds controlled by these products, **WARNINGS**, **PRECAUTIONS**, **USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

PENTIUM 960 EC 410 to 510 ml / ha *	PLUS			
	Ortron 750 WDG 165 g / ha	Terbucide Plus 900 WDG 540 g / ha	Nicosulfuron 750 WDG 60 g / ha	Villa 51 0.1 %
WEEDS CONTROLLED				
Botanical name		Common name		
<i>Amaranthus hybridus</i>		Common pigweed		
<i>Commelina benghalensis</i>		Benghal wandering Jew		
<i>Eleusine indica</i> **		Goose grass		
<i>Hibiscus trionum</i>		Bladder weed		
<i>Galinsoga parviflora</i>		Gallant soldier		
<i>Panicum schinzii</i>		Sweet buffalo grass		
<i>Portulaca oleracea</i>		Purslane		
<i>Rumex acetosella</i>		Sheep's sorrel		
<i>Sorghum bicolor</i>		Wild grain sorghum		
<i>Sorghum halepense</i>		Johnson grass		
<i>Tagetes minuta</i>		Tall Khaki weed		
<i>Triticum aestivum</i>		Volunteer wheat		
<i>Tribulus terrestris</i>		Dubbeltjie / Devil's thorn		
<i>Xanthium strumarium</i>		Cocklebur		
Re-cropping intervals:				
The listed re-cropping intervals are valid only if the correct dosage rate of Terbucide Plus 900 WDG (Atrazine + Terbutylazine) according to soil type was applied and normal or above average rainfall occurred, after application.				
Grain sorghum				6 months
Sunflowers, Groundnuts, Soybeans, Potatoes, Dry beans, Forage sorghum and Small grains				18 months
Other crops not listed				24 months

* Use the low rate on sandy soils and the higher rate on loamy / sandy clay soil.

** Variable control of these weeds.

5. GRAIN- AND FORAGE SORGHUM

PENTIUM 960 EC can be used in sorghum provided the seed has been pre-treated, as prescribed, with a suitable, registered seed treatment such as **Theory 960 EC** to prevent phytotoxicity by **PENTIUM 960 EC**. Please confirm with the seed company before proceeding.

5.1 PENTIUM 960 EC applied pre-emergence in sorghum after seed treatment.

NOTE

- An application rate of 2.0 litres per hectare is recommended on turf soils, for improved control of Sweet signal grass and Yellow nutsedge.
- Prevent the formation of a soil crust through a shallow cultivation as soon as possible.
- Very wet conditions during the first 4 to 6 weeks after **PENTIUM 960 EC** application may damage the sorghum, but it is normally outgrown.

- The presence of seedling diseases may result in **PENTIUM 960 EC** damage to the sorghum.
- Post emergence applications of **Agrazine 500 SC** or **Terbusien Super 600 SC** can be applied in tank mixture with **2,4-D Amine 480 SL** for broad leaf control in sorghum. Consult the **Agrazine 500 SC** or **Terbusien Super 600 SC** labels for **WARNINGS, PRECAUTIONS, USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

Soil Type	% Clay	PENTIUM 960 EC ℓ / ha
Sand / loamy sand / sandy loam	0 to 20	Not recommended
Sandy clay loam	21 to 30	0.8
Sandy clay loam / sandy clay	31 to 40	1.0
Turf	> 40	1.0 to 1.3

5.2 Pre-emergence application rates of PENTIUM 960 EC followed by a post-emergence application of Terbugold 600 SC in grain sorghum.

NOTES

- **Terbugold 600 SC** may be applied early post-emergence in Grain sorghum as a follow-up treatment after the pre-emergence application of **PENTIUM 960 EC**.
- **Pre-treatment of the sorghum seed with the safener Theory 960 EC, will be required before PENTIUM 960 EC can be applied pre-emergence.**
- Always add the surfactant **Villa 51** to post-emergence **TERBUGOLD 600 SC** spray mixtures.
- The higher dosage rate of **PENTIUM 960 EC** on heavier soils can be used to improve the control of Yellow nutsedge (*Cyperus esculentus*) and Sweet signal grass (*Brachiaria eruciformis*) on turf.
- Application of sufficient fertilizer, band placed near the seed at planting, is recommended to enhance vigorous seedling growth.
- Refer to the **Terbugold 600 SC** label for **WARNINGS, PRECAUTIONS, USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

Soil type	% Clay	PRE-EMERGENCE		POST-EMERGENCE	
		PENTIUM 960 EC ℓ / ha	Interlock® 200 to 300 ml / ha	Terbugold 600 SC ℓ / ha	Villa 51 0.1 %
Sand / loamy sand	0 to 15	Not recommended		Not recommended	
Sandy loam	16 to 20	0.5		2.6	
Sandy clay loam	21 to 30	0.6		3.0	
Heavier soil (turf soils included)	> 35	0.7 to 1.0	3.0		
Re-cropping intervals:					
Grain sorghum				12 months	
Sunflowers, Groundnuts, Soybeans, Potatoes, Dry beans, Forage sorghum and Small grains				18 months	
Other crops not listed				24 months	

6. SUGARCANE

Pre-emergence application.

Table 6.1: PENTIUM 960 EC can be applied pre-emergence as follows.

Application rates and mixtures	Comments
PENTIUM 960 EC 1.0 to 1.6 ℓ / ha	Apply higher rates if clay content > 35 %, to improve control of <i>Panicum maximum</i> and <i>Cyperus esculentus</i> and for longer residual control.
PENTIUM 960 EC 2.0 ℓ / ha	Apply on soils with > 35 % clay and > 1 % organic matter.
PENTIUM 960 EC As above PLUS 2.0 to 3.0 ℓ / ha Ametryn 500 SC	For improved broadleaf control use the low rate of Ametryn 500 SC on light to medium soils and the high rate on medium to heavy soils. <u>Re-cropping intervals:</u> A re-cropping interval of 3 months apply to all crops, except sugarcane , for this tank mixture to prevent damage to follow up crops. Sugarcane does not have a re-cropping interval.
PENTIUM 960 EC As above followed post-emergence by MCPA 400 SL OR 2,4-D Amine 480 SL	Consult the MCPA 400 SL or 2,4-D Amine 480 SL labels for the complete particulars.

Post-emergence application (Sugarcane).

Table 6.2: PENTIUM 960 EC can be applied post-emergence, if it is applied in a tank mixture with an herbicide with post-emergence activity as recommended below.

Application rates and mixtures	Comments
PENTIUM 960 EC As for pre-emergence PLUS Ametryn 500 SC at 6.0 ℓ / ha PLUS 0.2 % non-ionic surfactant	Apply overall up to 5-leaf stage of sugarcane and as a directed spray later. <i>Panicum maximum</i> control with this treatment may be variable. <u>Re-cropping intervals:</u> A re-cropping interval of 3 months apply to all crops, except sugarcane , for this tank mixture to prevent damage to follow up crops. Sugarcane does not have a re-cropping interval.
PENTIUM 960 EC As for pre-emergence PLUS Ametryn 500 SC at 4.0 to 5.0 ℓ / ha PLUS MCPA 400 SL at 3.5 ℓ / ha OR 2,4-D Amine 480 SL at 3.0 ℓ / ha PLUS 0.2 % non-ionic surfactant	Direct spray between cane rows especially after the 5-leaf stage. Use the higher Ametryn 500 SC rate for severe grass infestations. <i>Panicum maximum</i> control with this treatment may be variable. <u>Re-cropping intervals:</u> A re-cropping interval of 3 months apply to all crops, except sugarcane , for this tank mixture to prevent damage to follow up crops. Sugarcane does not have a re-cropping interval.

7. TOBACCO (Summer rainfall region only).

- Apply **PENTIUM 960 EC** within 3 days after transplanting while the plants are still wilted. When the tobacco is turgid, the spray must be directed to prevent it from entering the funnel, where the growing point may be damaged. If actively growing leaves are sprayed, scorching may occur. If **PENTIUM 960 EC** is sprayed on gravelly or soils with less than 10 % clay, the spray should be directed at least 10 cm on both sides away from the plant row to prevent leaching to the root zone of the tobacco.
- The **PENTIUM 960 EC** can be activated by applying overhead irrigation of 10 to 15 mm within 2 to 3 days after application, on soils with less than 35 % clay and 20 to 30 mm on soils with more than 35 % clay.

Table 7: PENTIUM 960 EC application rates in Tobacco.

<i>Soil Type</i>	<i>% Clay</i>	<i>PENTIUM 960 EC ℓ / ha</i>
Sand	0 to 10	0.5
Loamy sand / sandy loam	11 to 20	0.7
Sandy clay loam	21 to 35	1.0
Sandy clay	> 35	1.4

NOTE

- Only strong and healthy plants should be transplanted.
- Tobacco should be properly transplanted. Roots that are exposed to **PENTIUM 960 EC** at application will result in adversely affected plants.

8. FORESTRY (PINE & EUCALYPT PLANTATIONS)

Table 8: PENTIUM 960 EC dosage rates in forestry applications.

<i>Soil Type</i>	<i>% Clay</i>	<i>PENTIUM 960 EC ℓ / ha</i>
Sand / loamy sand / sandy loam	0 to 20	1.0
Sandy clay loam	21 to 30	1.3
Sandy clay loam / sandy clay	>30	1.6 to 2.0

NOTE

- Apply **PENTIUM 960 EC** on a well-prepared weed-free seedbed immediately following transplanting of the young trees.
- Where grass weeds are present after planting of the trees, follow the **PENTIUM 960 EC** application one week later with an application of **Forward 100 EC** (L 9036) (**Propaquizafop**), as recommended.

9. TREE NUT ORCHARDS

9.1 Pre-emergence application of PENTIUM 960 EC in a tank mixture with Terbuticide 600 WDG for the control of weeds in Tree nut orchards.

NOTES

- Trials should be conducted on tree nuts orchards that is at least three (3) years old.
- The application should be made during spring with 200 litres water per hectare.
- Avoid contact of spray mixture with the foliage of the crop.
- **Terbuticide 600 WDG** does not control established weeds or weeds that develop from underground vegetative material, e.g., rootstocks. Thus, apply a post-emergence weed burndown application of **Brass 200 SL** according to the label recommendations first, before applying **PENTIUM 960 EC** in a tank mixture with **Terbuticide 600 WDG** for residual weed control.
- Refer to the **Terbuticide 600 WDG** label for **WARNINGS, PRECAUTIONS, USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

PENTIUM 960 EC 3.0 ℓ / ha	PLUS	
	Terbuticide 600 WDG 3.4 kg / ha	Interlock® 200 to 300 ml / ha
WEEDS CONTROLLED		
Botanical name	Common name	
<i>Amaranthus hybridus</i>	Common pigweed	
<i>Bidens pilosa</i>	Blackjack	
<i>Chenopodium album</i>	White goosefoot	
<i>Chenopodium carinatum</i>	Green goosefoot	
<i>Cleome monophylla</i>	Spindle pod	
<i>Datura ferox</i>	Large thorn apple	
<i>Digitaria sanguinalis</i>	Crab finger grass	
<i>Schkuhria pinnata</i>	Dwarf marigold	
<i>Tagetes minuta</i>	Tall Khaki weed	
<i>Tribulus terrestris</i>	Dubbeltjie / Devil's thorn	
<i>Urochloa mosambicensis</i>	Bushveld signalgrass	
Re-cropping intervals:		
The listed re-cropping intervals are valid only if the correct dosage rate of Terbuticide600 WDG (Terbuthylazine) according to soil type was applied and normal or above average rainfall occurred, after application.		
Grain sorghum	12 months	
Sunflowers, Groundnuts, Soybeans, Potatoes, Dry beans, Forage sorghum and Small grains	18 months	
Other crops not listed	24 months	
Maize	1 month	

9.2 Pre-emergence application of PENTIUM 960 EC in a tank mixture with Sundry 500 WP for the control of weeds in Tree nut orchards.

NOTES

- Tree nut orchards should be at least three (3) years old.
- The application should be made during spring with 200 litres water per hectare.
- Avoid contact of spray mixture with the foliage of the crop. Refer to the **Sundry 500 WP** label for **WARNINGS, PRECAUTIONS, USE RESTRICTIONS** and **DIRECTIONS FOR USE**.

PENTIUM 960 EC 3.0 ℓ / ha	PLUS	
	Sundry 500 WP 0.4 kg / ha	Interlock® 200 to 300 ml / ha
WEEDS CONTROLLED		
Botanical name	Common name	
<i>Amaranthus hybridus</i>	Common pigweed	
<i>Bidens pilosa</i>	Blackjack	
<i>Chenopodium album</i>	White goosefoot	
<i>Chenopodium carinatum</i>	Green goosefoot	
<i>Cleome monophylla</i> *	Spindle pod	
<i>Datura ferox</i>	Large thorn apple	
<i>Digitaria sanguinalis</i>	Crab finger grass	
<i>Tagetes minuta</i>	Tall Khaki weed	
<i>Tribulus terrestris</i>	Dubbeltjie / Devil's thorn	
Re-cropping intervals:		
Soybeans & Groundnuts	14 days	
All other crops	4 months	

* Variable control of these weeds.

WEEDS GENERALLY CONTROLLED BY PENTIUM 960 EC:	
<i>Brachiaria eruciformis</i>	Sweet signal grass
<i>Chloris virgata</i>	Feather-top Chloris
<i>Dactyloctenium aegyptium</i>	Crowfoot
<i>Digitaria sanguinalis</i>	Crabfinger-grass
<i>Digitaria nuda</i>	Naked crabfinger grass
<i>Echinochloa crusgalli</i>	Barnyard 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 pumila (=pallide-fusca)</i>	Red bristle grass
<i>Setaria verticillata</i>	Bur bristle grass
<i>Tragus berteronianus</i>	Small carrotseed grass
<i>Tragus racemosus</i>	Large carrotseed grass
<i>Urochloa mosambicensis</i>	Bushveld herringbone grass
<i>Urochloa panicoides</i>	Herringbone grass
WEEDS VARIABLY CONTROLLED BY PENTIUM 960 EC:	
<i>Amaranthus hybridus</i>	Common 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>	Wandering Jew
<i>Cyperus esculentus</i> *	Yellow nutsedge
<i>Datura ferox</i>	Large thorn apple
<i>Datura stramonium</i>	Thorn apple
<i>Galinsoga parviflora</i>	Gallant soldier
<i>Nicandra physaloides</i>	Apple of Peru
<i>Portulaca oleracea</i>	Purslane

NOTE

* The control of Yellow nutsedge (*Cyperus esculentus*) is dependent on a thorough ploughing immediately before planting, application 1 to 2 days after planting, which is followed by about 10 to 20 mm rain within 7 to 10 days after ploughing. More rain is required on heavy soils.

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

- **RADICAL 250 EC** (L 9159) = **RAPID 250 EC** (L 9160) (**Flurochloridone**),
- **SUNDRY 500 WP** (L 9299) = **SYMPHONY 500 WP** (L 9300) (**Flumioxazin**),
- **CANTRON® 480 SC** (L 8365 / N-AR 1323 / W 130604) = **ASTRON® 480 SC** (L 8366) = **CANONNE 480 SC** (L 8735) (**Mesotrione**),
- **CANTRON® SMART 500 SC** (L 9834) = **ASTRON® SMART 500 SC** (L 9832) = **CANON SMART 500 SC** (L 9937) (**Mesotrione + Glyphosate**),
- **PLATINUM PLUS 915 EC** (L 7844) = **METOLACHLOR 915 EC** (L 7841 / N-AR 1361),
- **TERBUCIDE PLUS 900 WDG** (L 9888) = **TERBUWEED DUO 900 WDG** (L 9890) = **TERBUMAIS PLUS 900 WDG** (L 9998) (**Atrazine + Terbutylazine**),
- **METOLACHLOR 800 EC** (L 7433) = **METOLACHLOR 800 EC** (L 7137),
- **PREMIUM 840 EC** (L 8066) = **LEAP 840 EC** (L 8064 / N-AR 1103) (**acetochlor + benoxacor**),
- **TERBUCIDE 600 WDG** (L 8799 / W 1301046) = **TERBUWEED 600 WDG** (L 8800) = **TERBUMAIS 600 WDG** (L 8798) (**Terbutylazine**),
- **GATLING 700 SC** (L 8349) = **BRENNO 700 SC** (L 8391),
- **NICORON 750 WDG** (L 8045 / N-AR 1335) = **NICOSULFURON 750 WDG** (L 8059),
- **HALO 750 WDG** (L 8283 / N-AR 1337) = **CROWN 750 WDG** (L 8282) (**Halosulfuron**),
- **SLASH PLUS 540 SL** (L 8819) = **PANGA PLUS 540 SL** (L 8818) = **LYNCH PLUS 540 SL** (L 8816) (**Glyphosate**),
- **LUMEN 420 SC** (L 10645) = **LOUPE 420 SC** (L 10621) = **LUMINA 420 SC** (L 10819) (**Tembotrione**),
- **ORTRON 750 WDG** (L 10707) = **GRANTRON 750 WDG** (L 10706) (**Mesotrione**),
- **TERBUGOLD 600 SC** (L 10507) = **TERBUCLEAR 600 SC** (L 10506) = **PARTISAN GOLD 600 SC** (L 10747) (**Terbutylazine + S-metolachlor**),
- **PENTIUM PLUS 915 EC** (L 9741) = **PALLADIUM PLUS 915 EC** (L 9359) = **PARTISAN PLUS 915 EC** (L 9942) (**S-metolachlor**),
- **PENTIUM ULTRA 660 SC** (L 9924) = **PALLADIUM ULTRA 660 SC** (L 9922) = **PARTISAN ULTRA 660 SC** (L 9973) (**S-metolachlor + Atrazine**),
- **EXTEND 800 WDG** (L 9108) = **DEVELOP 800 WDG** (L 9109) (**Diuron**),
- **VELOCITY® SUPER** (L 9603 / W 130996) = **AMS-SUPER** (L 9758),
- **VELOCITY®-DRYMAX** (L 9454 / W 130995 / N-AR 1528) = **AMS-GRANULE** (L 9610),
- **VILLA 51 (L8050 / W 130454 / N-AR 1090)** = **WEN 51 (L8351)** and
- **BRASS 200 SL** (L 9279) = **BOUND 200 SL** (L 9280 / N-AR 1735) (**Glufosinate ammonium**).

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TERBUGOLD 600 SC, PENTIUM ULTRA 660 SC, PENTIUM PLUS 915 EC, METRICANE 700 WDG, VELOCITY®-DRYMAX, AMS-GRANULE, VELOCITY® SUPER, AMS-SUPER VILLA 51, WEN 51 and EPTC 720 EC are registered products of UNIVERSAL CROP PROTECTION (PTY) LTD.

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