

WARNINGS

- Handle with care.
- Poisonous if swallowed.
- Keep out of reach of children, uninformed persons and animals.
- Store in a cool, dry place away from food and feeds.
- Harmful to fish.
- **Re-entry:** do not enter treated area within one day of application unless wearing protective clothing.
- **Aerial application:** notify all the inhabitants in the immediate vicinity of the area that is to be sprayed and issue the necessary warnings. Do not spray over water or adjacent areas or allow the spray drift to contaminate these areas.
- **In case of poisoning call a doctor and show him/her this label.**

Although this herbicide 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 climatic and storage conditions; quality of dilution water; compatibility with other substances not indicated on the label and the occurrence or resistance of the weeds against the herbicide 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, environment or harm to man or animal or for lack of performance of the herbicide 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 the event of any uncertainty.

PRECAUTIONS

- Avoid inhalation of spray mist.
- Avoid contact with skin, eyes or clothes.
- Wear protective clothing (overall, rubber boots, gloves and face shield) when handling the concentrate.
- Wash with soap and water after use.
- Do not eat, drink or smoke while mixing or applying the product or before washing hands and face.
- Prevent spray drifting to adjacent areas and ensure that grazing, rivers, dams and boreholes are not contaminated.
- Clean the applicator after use. Dispose of the rinsate where it will not contaminate crops, grazing, rivers, dams and boreholes.
- Rinse the empty container three times with a volume of water equal to 10 % of that of the container. Add the rinsate to the contents of the spray tank and destroy the empty container by making holes in it.
- Do not use the empty container for any other purpose.
- Prevent contamination of food, feed, drinking water and eating utensils.

SYMPTOMS OF HUMAN POISONING

Exposure may cause moderate irritation of eyes, skin, or respiratory tract. A skin sensitization (allergic) reaction may occur in some individuals. Exposure to the active ingredient is reported to cause headache or nausea, usually subsiding within 24 hours.

FIRST AID TREATMENT

Inhalation: remove patient from exposure, keep warm and at rest. Obtain medical attention.

Skin contact: wash skin immediately with cold water, followed by soap and water.

Eye contact: immediately irrigate with eye wash solution or clean water for at least 15 minutes. Obtain medical attention.

Ingestion: if victim is fully conscious, immediately give a large quantity of water to drink and induce vomiting. Never give anything by mouth to an unconscious person. Get medical advice.

NOTE TO PHYSICIAN

There is no specific antidote if this product is ingested. If a large amount has been ingested and emesis is inadequate, lavage stomach. The active ingredient of this product has a high affinity for activated charcoal. Five mg/kg activated charcoal suspension (50 g/400 ml water) can be given to absorb the remaining toxicant. Treat symptomatically.

RESISTANCE WARNING

For resistance management **BUCCANEER 960** is a group code K3 herbicide. Any weed population may contain individuals naturally resistant to **BUCCANEER 960** and other group code K3 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds may not be controlled by **BUCCANEER 960** or any other group K3 herbicides.

To delay herbicide resistance:

1. Avoid exclusive repeated use of herbicides from the same herbicide group code. Alternate or tank mix with products from different herbicide codes.
2. Integrate control methods (chemical, cultural and biological) into weed control programs. For specific information on resistance management contact your local distributor.



BUCCANEER 960

Reg No/Nr: L 7178 Act/Wet 36 of/van 1947

An emulsifiable concentrate herbicide for the pre-emergence control of certain grasses and yellow nutsedge in sunflowers, soy beans, dry beans, kidney beans, green beans, groundnuts, lupins, potatoes, sugarcane and post-emergence of maize.

'n Emulgeerbare konsentraat voor-opkom onkruidodder vir die beheer van sekere grasse en geeluintjies in aartappels, suikerriet, sonneblomme, sojabone, droëbone, nierbone, groenbone, grondbone en lupiene asook vroeg na-opkoms in mielies.

| | | |
|-----------------------------------|-----------|------------------------------------|
| HRAC: HERBICIDE GROUP CODE | K3 | HRAC: ONKRUIDDODERGROEPKODE |
|-----------------------------------|-----------|------------------------------------|

ACTIVE INGREDIENT /AKTIEWE BESTANDDEEL

Metolachlor (chloroacetanilide) 960 g/l Metolachloor (chloroasetanilied)

Manufacture Date:
Vervaardigingsdatum

Batch No.:
Lotnommer

NET MASS/ INHOUD

SEE ENCLOSED LEAFLET FOR FULL PARTICULARS
SIEN INGESLOTE VOUBILJET VIR VOLLE BESONDERHEDE

Registration holder/Registrasiehouer:

CASTLE AG-CHEM (PTY) LTD/(EDMS) BPK

Co. Reg. No. 2007/033120/07/ Mpy. Reg. Nr. 2007/033120 /07

P.O. Box 1523, Durban, 4000. Tel: 031 0033486

Poison Information Centre: 082 446 8946

UN No.: 3082



HARMFUL
SKADELIK



USE RESTRICTIONS

- **DO NOT APPLY BUCCANEER 960 AS A PRE-EMERGENCE TREATMENT IN MAIZE**
- Do not use **BUCCANEER 960** on poorly drained and/or compacted soils and/or very sandy or high fine sand content soils; soils that are poorly aerated, shallow or that compact easily or soils that have a compaction layer or soil borne diseases. If any uncertainty exists treat a small area and monitor for any crop damage or non-performance. Do not use **BUCCANEER 960** on flood irrigated soils.

IMPORTANT

If other herbicides are used in combination with **BUCCANEER 960**, ensure that their use instructions are adhered to.

DIRECTIONS FOR USE: Use only as directed.

Compatibility

Do compatibility tests prior to spraying to ensure that the desired products can be mixed. If uncertain contact the supplier.

Mixing instructions

Half-fill the spray tank with water, add the required amount of **BUCCANEER 960** to the spray tank while stirring. Fill tank with water to the required volume. Ensure that clean water with a pH 5–6,5 is used. Spray mixture must be stirred continuously while mixing and spraying. Spray mixture out immediately and do not keep overnight.

When mixing other products with **BUCCANEER 960**, add other products first, with the exception of paraquat or glyphosate which must be added last. Half fill the spray tank with water; add the other products while stirring continuously. Add water just short of the required volume then add **BUCCANEER 960**. Stir well, add paraquat or glyphosate and fill the tank with water to the required volume. Ensure agitation all the time. Do not let tank mixture stand overnight. Spray as soon as possible after mixing.

Ground application

Apply in 150–300 ℓ water per ha. Apply within 3 days after planting. Ensure accurate calibration of spraying equipment. Use fan-type spray nozzles and spacing should be such as to ensure even distribution of the product. For the best results apply **BUCCANEER 960** to a moist, well prepared seedbed. If applied to dry soil and it does not rain within 7–10 days, **BUCCANEER 960** must be incorporated into the top 10–20 mm of the soil.

Aerial application

Aerial application of **BUCCANEER 960** may only be done by a registered aerial application operator using a correctly calibrated, registered aircraft according to the instructions of South African National Standard 10118:2009 (Aerial Application of Pesticides). Ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met:

- **Volume:** a spray mixture volume of 30 ℓ/ha 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:** 20–30 droplets per cm² must be recovered at the target area.
- **Droplet size:** a droplet spectrum with a VMD of 350–400 microns is recommended. Limit the production of fine droplets less than 150 microns (high drift and evaporation potential) to a minimum.
- **Flying height:** maintain the height of the spray boom at 3–4 metres above the target. Do not spray when aircraft dives, is in a climb or when banking
- Use suitable atomising equipment that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product. The spraying system must produce a droplet spectrum with the lowest possible Relative Span.
- Position all the atomisers within the inner 60–75 % 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/h.
- Stop spraying under turbulent, unstable and dry conditions during the heat of the day.
- Spraying under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions (relative humidity 80 % and above) may lead to the following:
 - 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 drifting of the suspended spray cloud away from the target field.
- Ensure that the aerial spray operator knows exactly which fields to spray.
- Obtain an assurance from the aerial spray operator that the above requirements will be met and that relevant data will be compiled in a logbook and kept for future reference.

Centre pivot irrigation application

Ensure thorough cultivation of the land. Apply within 3 days of planting. Ensure that no weeds have germinated between planting and application. Ensure an even distribution of the product and that the equipment is accurately calibrated. Depending on soil type, apply between 12,5–25 mm of water (on light soils 12,5 mm and heavier loamy/clay soils 25 mm water). Ensure that spray- mixture reaches the target area and that no spray drifts onto adjacent areas. Ensure even application and that there is not excessive or too little overlapping which may result in crop damage or poor weed control. Use a positive displacement pump to apply the herbicide into the irrigation system.

Only apply through an irrigation system that has an anti-siphon mechanism and check valve system to prevent contamination of the well during shutdown and over flow of solution tank. To ensure mixing of product, inject ahead of any right angle turn in the main line. Synchronization of chemical pump and water pump is important to ensure simultaneous shutting off.

Centre pivot irrigation mixing instructions

Mix one part **BUCCANEER 960** with a minimum of one part water. A higher dilution mixture will result in more accurate calibration.

Application Rates and recommendations

Sugarcane:

Pre-emergence application:

Apply 1,5 – 2,5 l **BUCCANEER 960** / ha as a pre-emergence application on all soil types. Use the higher application rate on soils with > 35 % clay content or if *Panicum maximum* is a problem or to improve the control of yellow nutsedge (*Cyperus esculentus*) and/or for longer residual control.

If the organic content of the soil is higher than 1 % and the clay content is **more than 35 %**, then apply **BUCCANEER 960** at 2,0 l / ha.

MAIZE:

BUCCANEER 960 has no post-emergence effect on weeds. It could be applied post-emergence of the crop, but pre-emergence of the weeds. It is recommended that when **BUCCANEER 960** is used as a post-emergence application of the crop, it must be applied directly after a cultivation when no weeds are present. Weeds that are present after the cultivation will not be controlled.

BUCCANEER 960 can be used in maize as a post-emergence application of the crop, but pre-emergence of the weeds to prolong the residual grass control of a previous metolachlor 915 S application which was done pre-emergence of the crop, directly after planting.

| SOIL TYPE | DOSAGE l / ha | REMARKS |
|----------------|---------------|---|
| 0 – 10 % clay | 0,35 | Pre-emergence of weeds: |
| 11 – 20 % clay | 0,45 | <i>Mainly annual grasses.</i> |
| 21 - 30 % clay | 0,54 | Use the higher rate if organic matter is exceeding 1 %. |
| > 31 % clay | 0,54 - 0,75 | |

NB. Do not apply 2,4-D amine in tank mixtures with **BUCCANEER 960** on maize.

POTATOES

| SOIL TYPE | DOSAGE l / ha | REMARKS |
|----------------|---------------|--|
| All soil types | 1.9 | Pre-emergence (weeds) application: Apply under dry land conditions, pre-emergence of potatoes and weeds, after the first summer rains. Early post-emergence (weeds) application: Apply after the first summer rains, under dry land conditions, pre-emergence of potatoes and early post emergence of weeds. Do not apply after 10 % emergence of potatoes. Under irrigation, BUCCANEER 960 can be applied at 1.5 l/ha |

DRY BEANS, GREEN BEANS, GROUNDNUTS, KIDNEY BEANS, LUPINS, SUNFLOWERS AND SOY BEANS

For the best results apply **BUCCANEER 960** on a well prepared, fine, moist seedbed immediately after planting. Soft rain or irrigation (10–20 mm) to leach the herbicide into the soil within 7 days of application is necessary for good weed control especially where yellow nutsedge (*Cyperus esculentus*) is present. If yellow nutsedge is the predominant weed species use a suitable herbicide.

| Soil type | Clay (%) | BUCCANEER 960 (l/ ha) |
|----------------|----------|-----------------------|
| Sand | 0–10 | 0.75–1.00 |
| Loamy Sand | 11–20 | 1.00–1.25 |
| Sand Clay Loam | 21–30 | 1.25–1.50 |
| Sand Clay | >31 | 1.50–2.00 |

Important: use the higher rate for better yellow nutsedge and crab finger grass control, and where the soil organic material content is more than 1 %.

WEEDS THAT ARE CONTROLLED

The following weed species are normally controlled by a pre-emergence application if the correct dosages are used. Yellow nutsedge control is only obtained under ideal circumstances; e.g. good cultivation prior to planting and light rain (10–20 mm) after application and before germination of nutsedge (*Cyperus esculentus*).

Botanical name:

Brachiaria eruciformis
Chloris virgata
Dactyloctenium aegyptium
Digitaria sanguinalis
Echinochloa crus-gali
Eleusine corocana
Panicum maximum
Panicum schinzii
Pseudobrachiaria deflexa
Setaria pallide-fusca
Setaria verticillata
Sorghum verticilliflorum
Tragus berteronianus
Tragus racemosus
Urochloa mosambicensis
Urochloa panicoides

Common name:

sweet signal grass
feathertop chloris
crowfoot
crab finger-grass
barnyard grass
goose grass
common buffalo grass
sweet buffalo grass
false signal grass
red bristle grass
sticky bristle grass
common wild-sorghum
small carrot seed grass
large carrot seed grass
bushveld herringbone grass
herringbone grass

Control of the following weeds is variable:

Botanical name:

Ageratumconyzoides
Amaranthus hybridus
Amaranthus spinosus
Amaranthus thunbergii
Chenopodium carinatum
Cleome monophylla
Commelina benghalensis
Datura ferox
Datura stramonium

Common name:

invading Ageratum
common pigweed
thorny pigweed
red pigweed
green goosefoot
spindlepod
wandering Jew
large thorn apple
thorn apple

| | |
|--|-----------------|
| <i>Gallinsoga parviflora</i> | gallant soldier |
| <i>Lactuca serriola</i> | wild lettuce |
| <i>Nicandra physaloides</i> | apple of Peru |
| <i>Portulaca oleracea</i> | purslane |
| <i>Solanum nigrum</i> | nightshade |
| <i>Senecio madascariensis</i> | ragwort |
| Sedges: <i>Cyperus esculentus</i> | yellow nutsedge |

WAARSKUWINGS:

- Hanteer versigtig.
- Skadelik indien ingeneem.
- Bêre buite bereik van kinders, oningeligte persone en diere.
- Berg in 'n koel, droë plek weg van voedsel en voer.
- Giftig vir visse.
- **Herbetredingsinterval:** Moet nie behandelde gebied binne 1 dag na behandeling binnegaan nie tensy beskermende klere gedra word.
- **Lugtoediening:**
- Stel al die inwoners in die onmiddellike omgewing van die gebied wat bespuit gaan word in kennis en reik die nodige waarskuwings uit. Moet nie oor water of aangrensende gebiede spuit of die spuitnewel toelaat om dit te besoedel nie.
- **In geval van vergiftiging ontbied 'n geneesheer en toon hierdie etiket aan hom/haar.**

Alhoewel hierdie middel omvattend onder 'n groot verskeidenheid toestande getoets is, waarborg die registrasiehouer nie dat dit onder alle toestande doeltreffend sal wees nie aangesien die werking en effek daarvan beïnvloed kan word deur faktore soos abnormale grond-, klimaats- en bergingstoestande; kwaliteit van verdunningswater, verenigbaarheid met ander stowwe wat nie op die etiket aangedui is nie en die voorkoms van weerstand van die onkruid teen die betrokke middel, sowel as die metode, tyd en akkuraatheid van toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei, die omgewing, of vir nadelige effek op mens of dier of vir 'n gebrek aan prestasie van die betrokke middel as gevolg van die versuim van die gebruiker om etiketaanwysings na te kom of as gevolg van die ontstaan van toestande wat nie kragtens die registrasie voorsien kon word nie. Raadpleeg die verskaffer in die geval van enige onsekerheid.

VOORSORGMATREËLS:

- Vermy inaseming van dampe.
- Vermy kontak van die spuitstof met vel, oë en klere.
- Dra beskermde klere (oogbeskerming (gesigskerf) en rubberhandskoene) wanneer konsentraat hanteer word
- Was uself met seep en water na toediening en na toevallige velkontak
- Vermy besoedeling van voedsel, voer, drinkwater en eetgerei.
- Moet nie eet, drink of rook terwyl die produk hanteer, vermeng word ,of toegedien word nie.
- Vermy oorwaai van spuitnewel na ander gewasse, weiding, riviere, damme en gebiede wat nie onder behandeling is nie.
- Maak spuittoerusting deeglik skoon na gebruik en gooi waswater weg waar dit nie gewasse, weiding, riviere of damme sal besoedel nie.
- Keer die leë houer om oor die spuit- of mengtenk en dreineer vir minstens 30 sekondes nadat die vloeï tot 'n gedrup verminder het. Spoel die houer daarna driekeer uit met 'n volume water gelykaanstaande aan 'n minimum van 10 % van die inhoud van die houer. Gooi die spelwater by die inhoud van die spuittenk. Vernietig die houer deur gate in te slaan.
- Moet leë houer vir enige ander doel gebruik nie.
- Vermy besoedeling van voedsel, voer, drinkwater en eetgerei.

SIMPOME VAN MENSLIKE VERGIFTIGING:

Blootstelling mag matige irritasie van oë, vel of asemhaling stelsel veroorsaak. 'n Vel gevoeligheid (Allergiese) reaksie mag voorkom by sekere individue. Blootstelling aan die aktiewe bestanddeel kan hoofpyn of naarheid, veroorsaak mar dit gann gewoonlik binne 24 uur weg,

NOODHULPBEHANDELING:

Inaseming: Verwyder persoon van blootstelling na 'n goed geventileerde plek. Kry mediese hulp.

Velkontak: Was besoedelde vel dadelik met water gevolg met seep en koue water.

Oogkontak: Spoel oë met oogspoeloplossing of skoon water vir ten minste 15 minute. Kry mediese hulp.

Inname: Moet nie braking veroorsaak nie. Gee medisinale houtskool herhaaldelik met baie water. Moet nooit iets per mond aan 'n bewustelose persoon gee nie. Kry mediese hulp.

NOTA AAN GENEESHEER:

Geen spesifieke teenmiddel is bekend nie. Behandel simptome. As 'n groot hoeveelheid ingeneem is en braaking is onvoldoende pas maag spoeling toe. Die aktiewe bestanddeel van hierdie produk het 'n hoë affiniteit vir geaktiveerde houtskool. Vyf mg/Kg geaktiveerde houtskool suspensie (50 g/ 400 ml water) kan gegee word om die oorblywende toksien te absorber. Behandel simptome .

WEERSTANDSWAARSKUWING:

BUCCANEER 960 is 'n groepkode K3 onkruidodder. Enige populasie van 'n spesifieke onkruid mag individue insluit wat 'n natuurlike weerstand teen **BUCCANEER 960** of enige ander groepkode K3 onkruidodders het. Indien hierdie onkruidodders herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die onkruidpopulasie oorheers. Hierdie weerstandbiedende onkruid sal waarskynlik nie deur **BUCCANEER 960** of enige ander groepkode K3 onkruidodder beheer word nie.

Om weerstand teen onkruidodders te vertraag:

Vermi die eksklusiewe herhaaldelike gebruik van onkruidodders met dieselfde groepkode.

Wissel af met, of gebruik tenkmengsels van produkte in verskillende onkruidoddergroepkodes. Integreer ander beheermaatreëls (chemie, verbouing, biologies) in onkruidodderprogramme.

Vir spesifieke inligting oor weerstandsbestuur kontak die registrasiehouer van hierdie produk.

GEBRUIKSBEPERKINGS:

- **MOENIE BUCCANEER 960 VOOROPKOMS BEHANDELING OP MIELIES TOEDIEN NIE.**
- Moenie **BUCCANEER 960** op swak gedreineerde gronde en /of gekompakteerde gronde en / of baie sanderige of gronde met hoë fyn sand inhoud ; of gronde wat swak deurlug is, of vlak en maklik kompakteer of met gekompakteerde laag of grond wat grond gedragte siektes bevat, gebruik nie. As enige twyfel bestaan behandel 'n klier area en monitor vir enige gewas skade of swak onkruid beheer. Moenie gebruik waar vloed besproeiing toegepas word nie.

BELANGRIK

As enige ander onkruidodders in kombinasie met **BUCCANEER 960** gebruik word moet die aanbevelings van die produkte nagekom word.

GEBRUIKSAANWYSINGS: Gebruik slegs soos aangedui

Verenigbaarheid:

Die verenigbaarheid van **BUCCANEER 960** met ander verkose produkte moet eers getoets word alvorens toediening. Indien twyfel bestaan kontak die verskaffer.

Menginstruksies:

Maak die spuittenk halfvol met skoon water en voeg die benodigde hoeveelheid **BUCCANEER 960** by terwyl die water in die tenk geroer word. Vul die tenk verder totdat die verlangde volume verkry is. Gebruik slegs skoon water met 'n pH van 5 tot 6.5. Roer aanhoudend gedurende die meng- en spuitproses. Spuitmengsel moet dadelik gebruik word en nie oornag laat staan nie.

Indien **BUCCANEER 960** in die spuittenk met ander produkte vermeng word, moet dié produkte eerste in die spuittenk gevoeg word, behalwe in die geval van parakwat of glifosaat van laaste by die spuiten gevoeg moet word. Maak spuittenk halfvol voeg die ander produkte by terwyl aanhoudend geroer word. Voeg dan verder water by tot amper die verlangde hoeveelheid en voeg dan die benodigde **BUCCANEER 960** by . Sorg dat aanhoudend geroer word.

Grondtoediening:

Dien toe in ten minste 150 l tot 200 l water per ha. Dien toe binne 3 dae na plant. Verseker akkurate Kalibrasie van spuittoerusting. Die keuse en rangskikking van waaiertipe spuitpunte moet sodanig wees dat 'n egalig verspreiding en optimale herwinning van die onkruidodder op die grond verkry word. Vir beste resultate dien **BUCCANEER 960** toe op 'n goed voorbereide saadbed wat klam is. Indien **Bucaneer 960** op droë grond toegedien is en reën nie binne 4 tot 7 dae val nie, moet die **BUCCANEER 960** in die boonste 10 tot 20 mm van die grond ingewerk word.

Lugtoediening:

- Lugtoediening van **BUCCANEER 960** kan slegs deur 'n geregistreerde Lugbespuitingsoperateur met 'n korrek gekalibreerde, geregistreerde vliegtuig volgens die instruksies van SAWS 10118 (Aerial Application of Agricultural Pesticides) uit die lug bespuit word. Verseker dat die spuitmengsel eweredig oor die teikenarea versprei word, en die verlies aan spuitmengsel tydens toediening tot 'n minimum beperk word. Dit is daarom belangrik om aan die volgende vereistes te voldoen: **Volume:** 'n Spuitmengsel volume van 30 ℓ / ha word aanbeveel. Hierdie produk is nie teen 'n verlaagde volume getoets nie. Die registrasiehouer kan nie effektiwiteit waarborg, of verantwoordelik gehou word vir enige nadelige effekte indien hierdie produk teen 'n laer volume, as hierbo aanbeveel, toegedien word nie.
- **Druppelbedekking:** 20 - 30 druppels / cm² moet op die teikenarea herwin word.
- **Druppelgrootte:** 'n Druppelspektrum met 'n VMD van 350 - 400 mikron word aanbeveel. Beperk die produksie van druppels kleiner as 150 mikron (hoë drywing en verdampingspotensiaal) tot 'n minimum.
- **Vlieghoogte:** Handhaaf die hoogte van die spuitbalk bo die teiken op 3 - 4 m. Moet nie spuit wanneer die vliegtuig duik, uitklim of draai nie.
- Gebruik geskikte **atomiseringsapparaat** wat die vereiste druppelgrootte en bedekking sal produseer, maar die minste verlies van produk verseker. Die spuitstelsel moet 'n druppelspektrum met die kleinste moontlike Relatiewe Span produseer.
- Plaas al die atomiseerders in die binneste 60 - 75 % van die vlerkspan om te verhoed dat druppels binne-in die **vlerkpuntvorteks** beweeg.
- Die verskil in **temperatuur** tussen die nat- en droëboltermometer van 'n swaaighigrometer, moet nie 8 °C oorskry nie.
- Staak bespuiting indien die **windspoed** 15 km / uur oorskry.
- Staak bespuiting tydens **turbulente**, onstabiele en droë toestande gedurende die hitte van die dag.
- Bespuiting onder temperatuur **inversie toestande** (deur bo of binne die inversie laag te spuit) en/of **hoë lugvog toestande** (relatiewe humiditeit 80 % en meer) mag tot volgende probleme aanleiding gee:
 - verlaagde effektiwiteit aangesien die druppels as 'n wolk in die lug bly hang en moontlik verdamp (onvoldoende bedekking op teiken).
 - skade aan nie-teiken gewasse of sensitiewe areas as gevolg van wegdrywing van die spuitwolk na nie-teiken area.
- Verseker dat die Lugbespuitingsoperateur presies weet watter lande bespuit moet word.
- Dit is noodsaaklik om 'n versekering van die Lugbespuitingsoperateur te verkry dat aan al die bogenoemde vereistes voldoen sal word en dat data van belang in 'n logboek saamgevat is vir toekomstige verwysing.

Spilpunt Besproeiings Toediening

Verseker deeglike bewerking van die land. Dien toe binne 3 dae na plant. Verseker dat geen onkruid ontkiem het tussen plant en toediening. Maak seker die produk word eweredig toegedien word en dat die toerusting korrek gekalibreer is. Afhangend van die grond tiepe dien tussen 12,5 en 25 mm water toe. (op ligte gronde dien 12,5 mm en op swaarde leem / klei gronde 25 mm toe). Sorg dat die spuitmengsel die teiken gebied bereik en dat daar geen wegdrywing van spuitmiddel na aangrensende areas is. Verseker eweredige verspreiding van die spuit mengsel en dat daar nie oormatige oorvleueling of te min oorvleueling is nie, wat gewas skade of swak beheer mag veroorsaak. Gebruik positiewe verplaaingspomp om die produk in die besproeiing stelsel toe te dien.

Dien toe slegs deur besproeiestelsel wat toegerus is met 'n teen- sifon meganisme en kontrole klep sisteem om besoedeling van die water bron (boorgat, put) tydens afskakeling te voorkom en te verhoed dat die oplossing tenk nie oorloop nie.

Om goei vermenging van die produk te verseker plaas inspuiter na enige reghoekige buiging in die hoof lyn. Sinchronisasie van die chemikalië pomp en die water pomp is belangrik om gelyktydige afskakeling te bewerkstellig.

Spilpunt besproeiing meng aanwysings.

Meng een deel **Bucaneer 960** met ten minste een deel water. 'n Hoër verdunning sal vir beter kalibrasie sorg.

Aanbevelings en toedieningshoeveelhede:

Suikerriet:

Vooropkoms toediening:

Dien 1,5 – 2,5 ℓ **BUCCANEER 960** / hatoe op alle grontipes as 'n vooropkomstoediening. Gebruik die hoër dosis op gronde met 'n klei-inhoud van meer as 35 % of waar *P. maximum* 'n probleem is of om die beheer van geeluitjies te verbeter en/of vir langer residuele beheer.

Indien die organiese materiaal-inhoud van die grond meer as 1 % is en die klei-inhoud hoër as 35 % is , moet **BUCCANEER 960** teen 2,0 ℓ / ha toegedien word

Mielies:

BUCCANEER 960 het geen na-opkom beheer op onkruid. Dit mag na-opkom van die gewas maar voor-opkom van die onkruid toegedien word. Dit word aanbeveel waar **BUCCANEER 960** as 'n na-opkom van die gewas, maar voor-opkom van die onkruid gebruik word in mielies, moet so 'n toediening geskied direk na 'n skoffelbewerking waar geen onkruid oorgelaat is nie. Onkruid wat nog teenwoordig is na die skoffel bewerking, sal nie beheer word nie.

BUCCANEER 960 mag na-opkom van mielies, maar voor-opkom van die onkruid gebruik word om die residuele werking teen grasse van 'n vorige voor-opkom behandeling van Metolachlor 915 S wat vooropkoms van die gewas toegedien was, teen grasse te verleng.

| GRONDTIPE | DOSIS ℓ / ha | OPMERKINGS |
|----------------|--------------|---|
| 0 – 10 % klei | 0,35 | Vooropkoms van onkruid: Hoofsaaklik eenjarige grasse: Gebruik die hoër dosis indien die organiese materiaalinhoud van die grond meer as 1 % is. |
| 11 – 20 % klei | 0,45 | |
| 21 - 30 % klei | 0,54 | |
| > 31 % klei | 0,54 - 0,75 | |

Moet Nie 2,4 -D in tenk mengsels met Bucaneer 960 op melies toedien nie.

AARTAPPELS:

| GRONDTIPE | DOSIS ℓ / ha | OPMERKINGS |
|-------------------|--------------|---|
| Alle grond Tiepes | 1.9 | Vooropkloms(onkruid) toedienings: Dien toe onder droëland toestande, vooropkoms van onkruid en aartappels na die eerste somer reëns. Vroeg Na-opkoms (onkruid) toediening: Dien toe na die eerste somer reëns onder droëland toestande, vooropkoms van aartappels en vroeg naopkoms van onkruid. Moet nie toedien na 10% opkoms van die aartappels. Onder besproeiing mag BUCCANEER 960 teen 1,5 ℓ/ha toegedien word. |

DRÔE BONE, GROEN BONE, GRONDBONE, NIER BONE, LUPIENE, SONNEBLUM, EN SOYABONE.

Vir die beste resultate dien **BUCCANEER 960** toe op 'n goed voorbereide fyn, klam saadbed direk na plant. Sagte reën Of beproeiing van 10 tot 20 mm om die **BUCCANEER 960** in die grond te loog, word benodig binne 7 dae na toediening om goeie onkruid beheer te verseker, veral waar geel uintjies (*Cyperus esculentus*) voorkom. AS geel uintjie oorheers gebruik 'n spesefieke middel daarvoor.

| Grond Tiepe | Klei % | Bucanner 960 ℓ / ha |
|----------------|-----------|---------------------|
| Sand | 0 tot 10 | 0.75 tot 1.00 |
| Leem Sand | 11 tot 10 | 1.00 tot 1.25 |
| Sand Klei Leem | 21 tot 30 | 1.25 tot 1.50 |
| Sanerige Klay | >31 | 1.50 tot 2.00 |

Belangrik: gebruik die hoer dosis vir beter beheer van geel uintjies en kruisvingergras en waar die grond organiese materiaal 1 % oorskry

ONKRUIDE BEHEER

Die volgende onkruid word gewoonlik beheer met vooropkoms behandeling indien die korrekte dosis gebruik word. Geel Uintjies behver word net verky onder ideale toestande Bv. Goei bewerking voor plant en ligte reën (10 tot 20 mm) na toediening en voor ontkiëming van die geel uintie. (*Cyperus esculentus*)

Botaniese naam:

Brachiaria eruciformis
Chloris virgata
Dactyloctenium aegyptium
Digitaria sanguinalis
Echinochloa crus-gali
Eleusine corocana
Panicum maximum
Panicum schinzii
Pseudobrachiaria deflexa
Setaria pallide-fusca
Setaria verticillata

Gewone naam:

Litjiesinjalgras
 Witpluimchloris
 Hoenderspoor
 Kruisvingergras
 Hanepootmanna
 Jongosgras
 Gewone buffelsgras
 Soetbuffelsgras
 Bastersinjalgras
 Rooiborselgras
 Klitsborselgras

| | |
|---------------------------------|---------------------|
| <i>Sorghum verticilliflorum</i> | Gewone wildesorghum |
| <i>Tragus berteronianus</i> | Kleinwortelsaadgras |
| <i>Tragus racemosus</i> | Grootwortelsaadgras |
| <i>Urochloa mosambicensis</i> | Bosveldbeesgras |
| <i>Urochloa panicoides</i> | Beesgras |

Beheer van die volgende onkruid sal wissel afhange van weerstoestand. Hierdie onkruid sal slegs beheer word indien die korrekte toedieningshoeveelheid toegedien is en indien toestande gunstig is vir ontkieming.

Breëblaaronkruid:

Botaniese naam:

Ageratumconyzoides
Amaranthus hybridus
Amaranthus spinosus
Amaranthus thunbergii
Chenopodium carinatum
Cleome monophylla
Commelina benghalensis
Datura ferox
Datura stramonium
Gallinsoga parviflora
Lactuca serriola
Nicandra physaloides
Portulaca oleracea
Solanum nigrum
Senecio madascariensis
Uintjies:
Cyperus esculentus

Gewone naam:

Indringer-Ageratum
Gewone misbredie
Doringmisbredie
Roommisbredie
Groen hondebossie
Rusperbossie
Wandelende Jood
Grootstinkblaar
Stinkblaar
Knopkruid
Wildeslaai
Basterappelliefie
Porslein
Nastergal
Bankrotbos
Geeluintjie



BUCCANEER 960

Reg No/Nr: L 7178 Act/Wet 36 of/van 1947

An emulsifiable concentrate herbicide for the pre-emergence control of certain grasses and yellow nutsedge in sunflowers, soy beans, dry beans, kidney beans, green beans, groundnuts, lupins, potatoes, sugarcane and post-emergence of maize.

'n Emulgeerbare konsentraat voor-opkom onkruidodder vir die beheer van sekere grasse en geeluintjies in aartappels, suikerriet, sonneblomme, sojabone, droëbone, nierbone, groenbone, grondbone en lupiene asook vroeg na-opkoms in mielies.

| | | |
|-----------------------------------|-----------|-------------------------------------|
| HRAC: HERBICIDE GROUP CODE | K3 | HRAC: ONKRUIDDODER GROEPKODE |
|-----------------------------------|-----------|-------------------------------------|

ACTIVE INGREDIENT /AKTIEWE BESTANDDEEL

Metolachlor (chloroacetanilide) 960 g/l Metolachloor (chloroasetanilied)

Manufacture Date:
Vervaardigingsdatum

Batch No.:
Lotnommer

NET MASS/ INHOUD

**SEE ENCLOSED LEAFLET FOR FULL PARTICULARS
SIEN INGESLOTE VOUJILJET VIR VOLLE BESONDERHEDE**

Registration holder/Registrasiehouer:

CASTLE AG-CHEM (PTY) LTD/(EDMS) BPK

Co. Reg. No. 2007/033120/07/ Mpy. Reg. Nr. 2007/033120 /07

P.O. Box 1523, Durban, 4000. Tel: 031 0033486

Poison Information Centre: 082 446 8946

UN No.: 3082

