



# MENTOR

BEFORE USING THIS PRODUCT, READ THE LABEL CAREFULLY

GEbruiksAnwysings Ingesluit  
VERWYS NA BESONDERHEDE  
SOOS OP HOUER / SHK GEDRUK

Lotnummer  
Datum van vervaardiging

## MENTOR

HERBICIDE

Reg. No. L8313, Act/Wet No. 36 of/van 1947

2. 29/01/2013

**An emulsifiable concentrate herbicide for the control of weeds in the crops as indicated.**

**'n Emulgeerbare konsentraat onkruidodder vir die beheer van onkruid in die gewasse soos aangedui.**

HRAC HERBICIDE GROUP CODE	K3	HRAC ONKRUIDDODDERGROEPKODE
<b>ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL</b>		
S-metolachlor (chloro-acetanilide)	960 g/l	S-metolachlor (chloorasetanilied)

Registration Holder / Registrasiehouer  
**Meridian Agrochemical Company (Pty.) Ltd. / (Edms.) Bpk.**  
 Reg. No. 2000/010819/07  
 P.O. Box / Posbus 436, Modderfontein, 1645, South Africa / Suid- Afrika

5l

UN Number: 3082

HARMFUL / SKADELIK

## WARNINGS

- Handle with care.
- Poisonous if swallowed.
- Toxic to fish.
- Keep out of reach of children, animals and uninformed people.
- Store under lock and key in a cool, dry, well-ventilated area away from food, feed, seed, fertilizers and other types of agricultural remedies.
- May cause skin and eye irritation.
- Avoid skin and eye contact.
- Wear protective clothing when handling the concentrate.
- Do not spray over, or allow any spray drift to contaminate, water and adjacent areas.
- Comply with the instructions for use in order to avoid risks to man and the environment.
- Store in the original, tightly closed container away from sun and damp.
- **In case of poisoning, contact a doctor and make this label available to them.**
- **Re-entry:** Do not enter the treated area within 1 day after application unless wearing protective clothing.
- **Aerial application:** Notify all inhabitants in the immediate vicinity of the area to be treated 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 effective under all conditions. The activity and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the weed against the remedy, as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal, or for lack of performance of the remedy concerned due to failure by the user to follow the label instructions, or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.**

## PRECAUTIONS

- Do not inhale spray mist.
- Do not contaminate surface water or ditches with any chemicals or used containers.
- Product must be stored sealed in the original product container.
- Do not smoke, eat or drink whilst handling this product or before washing hands and face and changing clothes.
- Prevent contamination of food, feed, drinking water as well as eating utensils
- Avoid skin, eye or clothing contact with the concentrate or spray mixture.
- Wear protective clothing (impermeable gloves, and eye / face protection) while handling this product.
- Wash with soap and water directly after use.
- Thoroughly wash protective equipment and contaminated clothing after use.
- Wash immediately after accidental skin contact with soap and water.
- In case of eye contact, immediately flush with plenty of water.
- Invert the empty container over the spraying or mixing tank and allow it to drain for at least thirty seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to at least 30% of the volume of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner.
- Avoid spray drift onto other crops, grazing, rivers, dams or other areas not under treatment.
- Clean all equipment thoroughly following use and dispose of the wash water where it will not pollute the environment or contaminate crops, grazing, rivers or dams. Clean all mixing and application equipment after use and before using it for other products.

- Keep children and animals away from stacked and waste material.
- Destroy the empty container by perforation and flattening and dispose of it in a safe way in accordance with local regulations. Do not use it for any other purpose.

#### **SYMPTOMS OF HUMAN POISONING**

No cases of human poisoning have been recorded. Under laboratory conditions, the symptoms of poisoning were sedation, dyspnoea, exophthalmos, curved posture and ruffled fur.

Symptoms of poisoning may also include: Irritation on skin and mucous membranes, eye irritation, allergic skin reactions and skin sensitisation. Ingestion of large volumes of **MENTOR** may also cause nausea, vomiting, abdominal distress and diarrhoea.

#### **FIRST AID TREATMENT**

If poisoning is suspected, immediately call a physician. Remove the patient from further contact with the pesticide and place them in a well-ventilated area. Have the product container, label or Safety Data Sheet with you when calling a poison control center, physician or when going for treatment.

**Eyes:** Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Remove contact lenses. **Seek medical assistance immediately.**

**Skin:** Immediately flush body with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. Do not rub skin. Wash contaminated clothing before re-use. Seek medical assistance should irritation persist.

**Ingestion: Never give anything by mouth to an unconscious person.** If swallowed **do NOT induce vomiting.** **Seek medical assistance immediately** and show the label, safety data sheet or container to the medical practitioner.

**Inhalation:** Remove patient to fresh air. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. **Seek medical assistance immediately.**

#### **NOTE TO PHYSICIAN**

No specific antidote is known. Treat symptomatically and supportively. Keep the patient under constant observation. Perform gastric lavage and catharsis if the patient is not unconscious. Ingestions of <10 mg per kg body weight may be treated by the administration of 30 to 60 g activated charcoal in 150 to 300 ml water.

#### **USE RESTRICTIONS**

Consult the sales agent of your local Distributor for on farm advice before using **MENTOR**.

**Do not apply MENTOR as a pre-emergence treatment on Maize.**

**MENTOR** may damage certain crops under the following conditions:

- ❖ Inbred parent plants of crop cultivars as well as experimental or newly released cultivars. First consult the manufacturer, distributor or seed supplier in this regard.
- ❖ Tobacco which is planted on very sandy and / or gravelly soils, or where flood irrigation is practiced.
- ❖ Grain sorghum and forage sorghum:

- Grown in soils with a high percentage (>60%) of fine sand and / or poor structure which are inclined to compact with rain as these soils are poorly aerated or,
  - Grain sorghum and Forage sorghum which is planted deeper than 50 mm.
  - Forage sorghum which is planted on very sandy and / or gravelly soils, or where flood irrigation is practiced.
  - Grain sorghum and forage sorghum on fields with a high incidence of soil-borne diseases and / or where monoculture is practiced.
  - Forage and Grain sorghum which has not been pre-treated with a suitably registered seed treatment to prevent phytotoxicity by acetanilide products.
- ❖ Dry beans on fields with a high incidence of soil-borne diseases and / or where monoculture is practiced.
  - ❖ Dry beans in hot, dry conditions, especially in the presence of a compaction layer in the soil. Under these conditions, beans may also be susceptible to wind damage.
  - ❖ Dry beans on waterlogged, shallow, sandy soils of less than 100 mm depth, with an impermeable clay subsoil.

**MENTOR** may only be used on forage sorghum which are sorghum x sorghum hybrids and sorghum x Sudan grass hybrids. Hybrids with *Pennisetum* spp. and hybrids containing the BMR genes should not be treated with **MENTOR**.

**MENTOR** may be used on Grain and Forage sorghum which has been treated with a suitably registered seed treatment for the prevention of phytotoxicity by acetanilide product.

**Damage to triazine sensitive crops may occur under the following conditions:**

- ❖ Where soils have been treated with Lime to correct the soil pH, the possibility of crop damage increases dramatically in fields where triazines were previously applied. This is due to the triazine molecules being replaced on the clay complex with calcium cations and the triazine thus becoming more available in the soil-water complex.
- ❖ Only maize should be planted in the season directly after soil pH adjustment with lime.
- ❖ No triazine sensitive crops should be planted in the season after the soil pH adjustment has been done with lime. This applies even if the triazines were applied at crop rotation rates in previous years.
- ❖ Triazine sensitive crops include all broadleaf crops.
- ❖ These warnings do not guarantee that no damage will be experienced by any crop, even the following maize crop, as large volumes of previously applied triazines may now become available depending on the volume of lime applied and the rainfall experienced.

**Increased efficacy, phytotoxicity and residual action may occur under the following conditions:**

- ❖ Increasing the soil pH levels above 7.0 could produce conditions for increased efficacy and reduced selectivity. This increased pH may also result in an increased soil residual action by certain herbicides, influencing the choice of follow-up crops – especially those grown under irrigation.
- ❖ In situations where pH adjustments have been done, take care where sulphonyl urea herbicides, triazolopyrimidine sulphonanilide herbicides and imidazolinone herbicides, which are all sensitive to soil pH fluctuations, have been used or are about to be used.

Do not apply to any crop or situation not mentioned in this label.

Do not apply this product in combination or tank mixture with any other product or agricultural

remedy which is not specifically listed on this label. Meridian Agrochemical Company (Pty) Ltd accepts no responsibility for any negative effects experienced if the instructions on this label are not adhered to, unless a Meridian representative was consulted beforehand.

When using other products in a tank mixture with **MENTOR** always consult the labels of those particular products regarding directions and restrictions for their application and crop rotation recommendations.

Consult a Meridian Agritech representative for details.

### **RESISTANCE WARNING**

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

#### **To delay herbicide resistance:**

- Avoid exclusive repeated use of herbicides from the same herbicide Group Code. Alternate or tank mix with registered products from different herbicide Group Codes.
- Integrate other control methods (chemical, cultural, biological) into weed control programmes.
- Maintain herbicide use records for each field.
- Prevent the movement of resistant weed seeds and vegetation to other fields by cleaning harvesting and tillage equipment and by planting clean seed.
- When grazing, start with lands with the lowest weed resistance before moving to lands with a high resistance as the animals may spread the seed.
- Inspect all lands annually in order to identify the development of resistance from an early stage.

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

The presence of resistant weeds is difficult to detect prior to use and, therefore, neither the Registration Holder nor the Distributor can accept responsibility for any losses as a result of **MENTOR** not controlling resistant weeds. Do not apply **MENTOR** alone in situations where weed resistance has been confirmed. Sub-standard application of **MENTOR** will lead to inferior weed control and may assist in development of herbicide resistance. It is of the utmost importance to inspect treated areas at regular intervals in order to identify the occurrence of herbicide-resistant weeds timeously.

A local farm strategy for preventing and managing resistance should be adopted. Guidelines have been produced by the Herbicide Resistance Action Group (HRAC) and copies are available from HRAC, your distributor or agents, independent crop advisor or Meridian Agritech.

### **MODE OF ACTION**

S-metolachlor is a cell division inhibitor. It is reported that chloroacetamide inhibits synthesis of very long chain fatty acids. S-metolachlor is a selective herbicide, absorbed predominantly by the hypocotyls and shoots and inhibits germination.

### **DIRECTIONS FOR USE**

**Use only as directed.**

## COMPATIBILITY

The compatibility of **MENTOR** with other products depends on the formulations of the respective products as well as the quality of the spray water to be used. As formulations change from time to time it is recommended that a physical compatibility test be done prior to the tank mixture being made. Do not mix with any products not listed in this label. **MENTOR** is compatible with **ICHIBAN 100 EW, ZENIT, METRIBUZIN 750 WG, PREMIERE, ATRAZINE 900 WG, EQUATE SL, SCORCHER** and **MCPA 750 DMAX**.

## MIXING INSTRUCTIONS

### Replace the cap after use.

Half-fill the spray tank with suitable water, then add the required amount of **MENTOR** to the water in the tank while agitating. Fill the spray tank to the desired volume. Should tank mixtures with other herbicides be made, follow the respective manufacturers' label recommendations.

When **MENTOR** is tank mixed with **MCPA 750 DMAX** or **EQUATE SL**, these compounds should be added to the water first. **MENTOR** should then be added last, just before the required volume is reached. When **SCORCHER** is included in a tank mixture it should be added last, only after all the other products have been added, and properly mixed just prior to the final volume being obtained.

### Ensure constant and thorough agitation during mixing and spray operations.

**Tank mixtures must be sprayed out immediately and not be allowed to stand in the spray tank overnight.** Spraying equipment must be thoroughly flushed out at the end of the spraying operation.

## APPLICATION METHODS

### Post plant pre-emergence

When planting into moist soil, **MENTOR** must be applied within **three days of planting** (but preferably at planting) on a fine, even, firm, freshly prepared seedbed that is free of weeds, excessive plant trash and large clods. In order to obtain good results, the application must be followed by rain or irrigation before the weeds emerge. If rainfall or irrigation does not occur in time, and the weeds begin to emerge and develop, a shallow cultivation should be carried out to destroy those weeds and to mix the herbicide with the top 10 – 20 mm of soil.

When planting into dry soil (insufficient moisture for germination), **MENTOR** must be applied as close to, but definitely before, the first rain. Weeds that have emerged at the time of the application will not be controlled.

### Post-emergence (maize)

**MENTOR** has a very limited post emergence effect. It may, however, be applied post-emergence to the crop immediately after a cultivation i.e. when no weeds are present. Weeds that are present after the cultivation will not be controlled by an application of **MENTOR**.

### Ground application:

**MENTOR** may be applied with any medium or high volume sprayer which is properly calibrated and fitted equipped with an efficient agitation mechanism. The choice and arrangement of fan-type spray nozzles should be such as to ensure even distribution and optimal recovery of the herbicide. The recommended amount of **MENTOR** should be applied in at least 200 l water / ha.

## **AERIAL APPLICATION (PRE- AND POST EMERGENCE)**

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

### **Equipment**

- Use suitable atomising equipment that will produce the desired droplet size and coverage of the target area and will ensure the minimum loss of product through drift.
- The operator must use a nozzle set-up that will produce a droplet spectrum with the lowest possible relative span.
- All nozzles and atomisers should be positioned within the inner 60-75% of the wingspan to prevent droplets from entering the wingtip vortices.

### **Application Parameters**

- A minimum volume of 30 ℓ (pre-emergence) and 35 ℓ (post-emergence) spray mixture per ha is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy nor be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended.
- A droplet coverage of 20 – 30 droplets per square cm (pre-emergence) and 30 – 45 droplets per square cm (post-emergence) must be recovered at the target.
- A droplet spectrum with a VMD of 350 – 400 microns (pre-emergence) and 300 – 350 microns (post-emergence) is recommended. Ensure that the production of fine droplets, with a VMD less than 150 microns, is restricted to a minimum.
- The height of the spray boom should be maintained at between 3 and 4m above the target.
- Do not spray when the aircraft is in a climb, at the top of a turn or during a dive or when banking.

### **Meteorological Conditions**

- The difference between the wet and dry bulb readings, as determined using a whirling hygrometer, must not exceed 8 °C.
- Do not spray under turbulent, unstable conditions or during the heat of the day when rising thermals and downdraughts occur.
- Do not spray under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions as this may cause:
  - i. Reduced efficacy due to suspension and evaporation of small droplets in the air (Which leads to inadequate coverage).
  - ii. Damage to other sensitive crops and/or non-target areas through drifting of the spray cloud away from the targeted area.
- Do not spray when the wind speed exceeds 15 km per hour.

### **General**

- Ensure that fields are accurately marked and that the aerial spray operator knows exactly which fields to spray.
- Obtain an assurance from the aerial spray operator that the above requirements will be met and that the relevant data will be compiled in a logbook and kept for future reference.
- **MENTOR** may be applied aerially as prescribed provided that the spray mixture is distributed evenly over the target area and the loss of spray material during application is restricted to a minimum.

## **CENTRE PIVOT APPLICATION**

**MENTOR** may be applied in irrigation water pre-emergence (after planting but before weeds or crops emerge) at the rates recommended on this label. Only centre pivot systems that apply water uniformly should be used. Prepare a mixture with a minimum of one part water to one part herbicide and inject this mixture into the centre pivot system using a positive

displacement pump. Injecting a larger volume of a more dilute mixture per hour will usually provide a more accurate calibration of metering equipment. Maintain sufficient agitation in order to keep the herbicide in suspension. Apply in 12.5 – 25 mm water. Use the lower water volume on coarser textured soils and the higher volume on finer textured soils. Greater than 25 mm of water at application may reduce the weed control by moving the herbicide to below the effective zone in the soil.

**The following precautions must be followed for centre pivot applications:**

- ❖ Apply only through irrigation systems containing anti-siphon and check valves to prevent contamination of the well during shutdown and overflow of the solution tank.
- ❖ Inject ahead of any right angle turn in the main line in order to ensure adequate mixing.
- ❖ All chemical injection pumps and water pumps must have interlocking controls to ensure simultaneous shut-off.
- ❖ Application when drift may occur, such as from windy conditions, when systems joints and connections are leaking, or when nozzles are not providing uniform distribution, may cause crop injury.
- ❖ When sprinkler patterns do not overlap sufficiently, unacceptable weed control may result. Where sprinkler distribution patterns overlap excessively, crop injury or unacceptable residues may result.

**RECOMMENDATIONS**

**GROUNDNUTS, SUNFLOWERS AND BEANS (DRY BEANS AND KIDNEY BEANS AND SOYBEANS)**

**TABLE 1: APPLICATION RATE: MENTOR FOR CROPS AS MENTIONED ABOVE**

SOIL TYPE	% CLAY	MENTOR (mℓ / ha)
Sand / Loamy sand / Sandy Loam	0-20	600 – 800
Sandy clay loam	21-30	800 – 1000
Sandy clay loam / Sandy clay	>30	1000 - 1300

Use the higher application rate of **MENTOR** for improved control of **yellow nutsedge** (*Cyperus esculentus*) or where heavy infestations of **crab fingergrass** (*Digitaria sanguinalis*) exist, or where the organic matter content of the soil exceeds 1.0%.

**MENTOR** can be used pre-emergence on glyphosate tolerant cotton and Soybeans in combination with **BOUNTY SL** applied post-emergence.

**TABLE 2: APPLICATION RATE: MENTOR + EQUATE SL ON DRY BEANS**

SOIL TYPE	% CLAY	MENTOR (mℓ / ha)	EQUATE SL (mℓ / ha)
Sand / Loamy sand	0-15	600	300
Sandy loam / Sandy clay loam	16 - 25	600	400
Sandy clay loam / Sandy clay	26-35	800	500
Sandy clay / Turf	>35	Not recommended	Not recommended



**TABLE 3: APPLICATION RATE: MENTOR + EQUATE SL ON GROUNDNUTS AND SOYBEANS**

SOIL TYPE	% CLAY	MENTOR (mℓ / ha)	EQUATE SL (mℓ / ha)
Sand / Loamy sand / Sandy loam	0-25	500 - 800	400
Sandy clay loam / Sandy clay	26-35	800 - 1000	500
Sandy clay / Turf	>35	Not recommended	Not recommended

**Notes for Tables 2 and 3**

- ❖ The tank mixture of **MENTOR** plus **EQUATE SL** may damage the crop when used on a soil with a pH (H<sub>2</sub>O) of more than 7.0.
- ❖ The control of certain weeds may be negatively affected under the following conditions:
  - a) A poorly prepared seedbed.
  - b) Soils with a pH (H<sub>2</sub>O) of less than 5.0
  - c) Dry conditions directly following application, or a lack of sufficient rain on heavy soils.
- ❖ The application rate of **MENTOR** may be increased in Table 3 in accordance with the increase of clay content within each soil type group. See the **EQUATE SL** label for full details.

**GRAIN SORGHUM AND FORAGE SORGHUM**

**MENTOR** may be used in grain sorghum and forage sorghum provided that the sorghum seed has been adequately treated as prescribed with **SAFENIM**. The application rates in Table 3 are recommended for the control of annual grasses and partial control of *Cyperus esculentus*.

**MENTOR** may only be used on forage sorghum which are sorghum x sorghum hybrids and sorghum x Sudan grass hybrids. Hybrids with *Pennisetum* spp. and hybrids containing the BMR genes should not be treated with **MENTOR**.

**TABLE 4: MENTOR APPLICATION RATES WHEN APPLIED ON SAFENIM TREATED SORGHUM**

SOIL TYPE	% CLAY	MENTOR (mℓ / ha)
Sand / Loamy sand / Sandy Loam	0-20	Not recommended
Sandy clay loam	21-30	800
Sandy clay	31-40	900
Turf	>40	900 – 1300

**Notes:**

- ❖ On turf soils, *Brachiaria eruciformis* may require 1.3 ℓ / ha of **MENTOR** for good control. This application rate may also improve the control of *Cyperus esculentus*.
- ❖ Use the higher application rates of **MENTOR** where heavy infestations of *Digitaria sanguinalis* (crab fingergrass) exist.
- ❖ If grain and forage sorghum seed are not adequately pre-treated with **SAFENIM**, **MENTOR** will cause severe injury to the crop.
- ❖ If a soil crust is formed, this should be broken up immediately by means of shallow cultivation.
- ❖ **MENTOR** may damage grain and forage sorghum temporarily when high soil moisture conditions occur 4 – 6 weeks after planting. The crop will usually outgrow this injury without any detrimental effect on yield.

### TOBACCO (summer rainfall region only)

Apply **MENTOR** as a full cover spray within 3 days after transplanting of the tobacco while the plants are still wilted. When **MENTOR** is applied to turgid tobacco plants, the spray must be directed in such a way that it does not enter the funnel of the plant where it may damage the growing point. Where **MENTOR** is applied onto the leaves of actively growing tobacco scorching may occur. On light soils (0 – 10% clay), **MENTOR** must only be applied between plant rows in such a way that an untreated strip with a width of approximately 20 – 25 cm on top of the ridge (i.e. 10 cm on both sides of the plant row) is left.

Existing weeds must be removed before **MENTOR** is applied. This may be done mechanically, by hand or by application of **SCORCHER** immediately before transplanting. Any growing weeds present at the time of application of **MENTOR** will not be controlled.

Where tobacco is planted on ridges, use 110° nozzles and position the nozzles between the ridges. This will ensure an even distribution of the herbicide.

In order to activate the **MENTOR**, overhead irrigation of at least 10 mm, but not more than 15 mm (on soils with less than 35.0% clay) and at least 20 mm, but not more than 30 mm (on soils with greater than 35.0% clay), should be applied within 2 – 3 days following the **MENTOR** application. **Only strong and healthy plants should be transplanted.**

Tobacco plants with roots exposed to **MENTOR** at the time of application will be adversely affected. Therefore, ensure that planting is carried out properly.

**TABLE 5: MENTOR APPLICATION RATES ON TOBACCO**

SOIL TYPE	% CLAY	MENTOR (mℓ / ha)
Sand	0-10	500
Loamy sand / Sandy loam	11-20	700
Sandy clay loam	21-35	1000
Sandy clay	>35	1400

### EUCALYPTUS SPP. AND PINE PLANTATION

**MENTOR** may be applied immediately after transplanting the young trees into a well-prepared seed bed.

Should grass weeds already be present at the time of planting, it is recommended that a tank mixture of **SCORCHER** and **MENTOR** be applied prior to planting.

Apply **SCORCHER** at the rates as recommended by the manufacturer. The **SCORCHER** will control the emerged weeds and create a pre-emergence situation for the **MENTOR** to act effectively.

If grass weeds are present after the trees have been planted, the **MENTOR** application may be followed 1 week later by a suitably registered herbicide as recommended by the manufacturer to control the emerged grasses.

**TABLE 6: MENTOR APPLICATION RATES ON EUCALYPTUS SPP. AND PINE PLANTATIONS**

SOIL TYPE	% CLAY	MENTOR (mℓ / ha)
Sand / Loamy sand / Sandy loam	0-20	1000
Sandy clay loam	21-30	1300
Sandy clay loam / Sandy clay	>30	1600 - 2000

#### Note

- ❖ Use the higher rate where organic matter content of the soil exceeds 1.0%

## MAIZE

### Residual grass control

Residual grass control after a pre-emergence application of **SIGNET 915 EC** may be prolonged with a post-emergence application of **MENTOR**. This application must be made after a thorough cultivation as emerged grass weeds will not be controlled.

**TABLE 7: MENTOR POST-EMERGENCE APPLICATION RATES ON MAIZE**

SOIL TYPE	% CLAY	MENTOR (mℓ / ha)
Sand	0-10	350
Loamy sand / Sandy loam	11-20	300
Sandy clay loam	21-30	350
Sandy clay loam / Sandy clay	31-40	350 - 500
Sandy clay / Turf	41-50	350 - 500

### Notes

- ❖ If the **SIGNET** plus **MENTOR** split treatment is selected (compare treatment **PREMIERE + SIGNET 915 EC**: page 6-8 of the **PREMIERE** label) on soils containing greater than 30% clay, the rate of **MENTOR** may be varied according to the degree of pre-emergence control achieved and the prevailing weather conditions.
- ❖ The higher dosage rate of **MENTOR** may be used if grass weeds have started to emerge at the time of the post-emergence application.

### Post-emergence application on glyphosate tolerant maize:

**MENTOR** may be applied in a tank mixture with **PREMIERE** and **BOUNTY SL** on glyphosate tolerant maize in order to provide knock-down and residual weed control.

**PREMIERE** must be applied post-emergence as follows:

- ❖ When the target grasses are between the 2 and 3 leaf stage.
- ❖ When the target broadleaf weeds are between the 2 and 6 leaf stage.

Any individual plants that do not contain the glyphosate tolerant gene will die when sprayed with glyphosate-based products such as **BOUNTY SL**. The utmost care should therefore be taken not to apply this tank mixture to non-glyphosate tolerant maize.

When tank mixing **MENTOR** with **PREMIERE** and **BOUNTY SL**:

- ❖ Ammonium sulphate containing products must be used to correct the water quality status of the water.
- ❖ No adjuvants should be used.
- ❖ No other triazine may be added to this tank mixture.
- ❖ The **BOUNTY SL** and **PREMIERE** labels should be carefully adhered to.

**MENTOR** plus **PREMIERE** may not be applied with any other glyphosate containing product other than **BOUNTY SL**.

## SUGARCANE

### Pre-emergence application

Apply 1000 – 1600 mℓ / ha **MENTOR** on all soil types as a pre-emergence treatment. The higher rate is recommended on soils with greater than 30% clay and on soil types where:

- ❖ *Panicum maximum* is a problem and / or

- ❖ For improved control of *Cyperus esculentus* and / or
- ❖ For longer residual control.

Apply **MENTOR** at 2000 ml / ha if the organic matter content of the soil exceeds 1.0% and the clay content exceeds 30%.

As it is not always possible to apply the herbicide prior to weed emergence, it is recommended to add 1500 ml / ha **SCORCHER** to the above-mentioned **MENTOR** spray mixture where weeds have started to emerge.

In order to obtain good broadleaf weed control, it is recommended that **MCPA 750 DMAX** be added to the **MENTOR**.

#### Post-emergence application:

Since **MENTOR** has no post-emergence activity, it will not control emerged weeds. It may, however, be applied post-emergence provided that it is applied in a tank mixture with a suitable post-emergence herbicide which will control the emerged weeds. Such treatments are as recommended below:

- ❖ **MENTOR + DIURON 80 WG + SCORCHER.**  
Apply per ha: 1000 – 1600 ml **MENTOR** in a tank mixture with 2 – 2.5 kg **DIURON 80 WG** + 1500 ml **SCORCHER**.  
Do not add a surfactant to this treatment.

#### Note:

- The above-mentioned post-emergence treatments should be applied not later than the 3-leaf stage of the grass weeds.
- The above-mentioned post-emergence treatments containing **SCORCHER** may be applied up to the 3 leaf stage of the crop.
- Use the higher rate of **DIURON 80 WG** for longer residual control.
- Apply **MENTOR** at 2000 ml / ha if the organic matter content of the soil exceeds 1.0% and the clay content exceeds 35%.

#### WEEDS CONTROLLED:

The following weed species are normally controlled by a pre-emergence application of **MENTOR** at the dosage rates indicated above alone as well as in tank mixture with **EQUATE SL** and **METRIBUZIN 75WG** as indicated:

Scientific name	Common name
<i>Bidens pilosa</i>	Blackjack
<i>Brachiaria eruciformis</i>	Sweet signal grass
<i>Chloris virgata</i>	Feathertop Chloris
<i>Digitaria sanguinalis</i>	Crab fingergrass
<i>Panicum maximum</i>	Common buffalo grass
<i>Schkuhria pinnata</i>	Dwarf marigold
<i>Tragus racemosus</i>	Large carrotseed grass
<i>Urochloa panicoides</i>	Herringbone grass

Control of the following weeds may be variable:

Scientific name	Common name
<i>Amaranthus hybridus</i>	Common pigweed
<i>Amaranthus thunbergii</i>	Red pigweed
<i>Cyperus esculentus</i>	Yellow nutsedge
<i>Datura ferox</i>	Large Thornapple
<i>Portulaca oleracea</i>	Purslane

## NOTE

Please refer to the product label for **EQUATE SL** and **METRIBUZIN 75WG** for a list of additional weeds which may be controlled.

**MENTOR** applications control various weeds as listed above. Other weeds that were not present during the developing trials of these treatments may also be controlled to a certain degree. The registration holder accepts no responsibility for unlisted weeds.

### Important: Yellow nutsedge (*Cyperus esculentus*)

The control of *Cyperus esculentus* can be improved provided that the following conditions are met:

- Planting is preceded immediately by a thorough ploughing with a mouldboard plough.
- A relatively fine, firm and even seedbed is prepared.
- Herbicide application is followed by at least 10 – 20 mm of soft penetrating rain or irrigation in order to leach the herbicide into the soil prior to the emergence of *Cyperus esculentus* (normally 7 – 10 days after ploughing). These conditions are more likely to occur during the latter half of the planting season (November). More rain or irrigation is required on heavier soils to obtain good results. This is the reason that poor control is sometimes experienced on turf soils.
- Rainfall following herbicide application, but before emergence of *Cyperus esculentus* is needed for optimum *Cyperus esculentus* control. Therefore, application of **MENTOR** should be made at or immediately after planting into moist soil.
- When planting into dry soil (insufficient moisture for *Cyperus esculentus* germination), the application should be timed as close as possible to, but definitely before, the first rains.

### Grass control:

Grass killers belonging to the chloroacetamide group of herbicides (including **MENTOR**) are absorbed via the coleoptiles of grass weeds. Thus, for good grass control, the herbicide needs to be present at lethal concentrations in the top  $\pm$  50 mm of the soil profile. The adsorptive capacity of a soil for these herbicides, as well as the amount of water that moves through the soil profile with rain / irrigation, determines the resultant concentration of these herbicides in the top layers of the soil profile. Due to the low adsorption capacity of sandy soils (0-15% clay, <1.0% organic matter), the amount of these herbicides can be reduced to sub-lethal concentrations in the top  $\pm$  50 mm after the occurrence of permeating rain (25 mm or more within 1 day). Persistent rain (50 mm or more distributed over 3 – 7 days) will have the same result. It may therefore happen that grasses germinate if such conditions prevail. Split applications are recommended if **MENTOR** is used on such soils. Permeating and / or persistent rain after the split application will have the same result.

### ACKNOWLEDGEMENT OF TRADEMARKS

Atrazine 900 WG (L 8890)	Meridian Agrochemical Company (Pty) Ltd
Bounty SL (L 7268)	Meridian Agrochemical Company (Pty) Ltd
Diuron 80 WG (L 9653)	Meridian Agrochemical Company (Pty) Ltd
Equate SL (L 7158)	Meridian Agrochemical Company (Pty) Ltd
Ichiban 100 EW (L 9248)	Meridian Agrochemical Company (Pty) Ltd
MCPA 750 DMAX (L 9020)	Meridian Agrochemical Company (Pty) Ltd
Premiere (L 9116)	Meridian Agrochemical Company (Pty) Ltd
Safenim (L 8682)	Meridian Agrochemical Company (Pty) Ltd
Scorcher (L 9085)	Meridian Agrochemical Company (Pty) Ltd
Signet 915 EC (L 9071)	Meridian Agrochemical Company (Pty) Ltd
Zenit (L 9073)	Meridian Agrochemical Company (Pty) Ltd

## WAARSKUWINGS

- Hanteer versigtig.
- Giftig indien ingesluk.
- Giftig vir visse.
- Hou buite bereik van kinders, diere en oningeligte persone.
- Bêre agter slot-en-grendel in 'n koel, droë, goed-geventileerde plek, weg van voedsel, voer, saad, kunsmis en ander landboumiddels.
- Mag vel- en oogirritasie veroorsaak.
- Vermoed vel- en oogkontak.
- Dra beskermende klere wanneer produk hanteer word.
- Moenie bo-oor water en aangrensende gebiede spuit nie, of toelaat dat wegdrywing hierdie gebiede besoedel nie.
- Voldoen aan die gebruiksaanwysings om sodoende risiko aan mens en omgewing te verhoed.
- Bêre in die oorspronklike, digsluitende houër, weg van son en klammigheid.
- **In geval van vergiftiging, kontak 'n dokter en wys hierdie etiket aan hom/haar.**
- **Herbetreding:** Moenie behandelde gebied binne 1 dag betree, tensy beskermende oorklere 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. Moenie oor aangrensende gebiede of oor water spuit, of die spuitstof daarheen laat oorwaai nie.

**Alhoewel hierdie middel omvattend onder 'n groot verskeidenheid toestande getoets is, waarborg die registrasiehouer nie dat dit onder alle toestande doeltreffend sal wees nie. Die werking en doeltreffendheid daarvan kan beïnvloed word deur faktore soos abnormale grond-, klimaats- en bergingstoestande; kwaliteit van verdunningswater, verenigbaarheid met ander stowwe wat nie op die etiket aangedui word nie en die voorkoms van weerstand van die onkruid teen die betrokke middel, sowel as die metode, tyd en akkuraatheid van die toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei, die omgewing of vir nadelige invloede 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

- Moenie die dampe of spuitnewel inasem nie.
- Moenie oppervlakwater of slote met enige chemikalieë of gebruikte houers besoedel nie.
- Produk moet in die oorspronklike geseëde produkhouer gestoor word.
- Moenie rook, eet of drink tydens vermenging of toediening van die produk of voordat hande en gesig gewas is nie.
- Voorkom die besoedeling van voedsel, voer, drinkwater en eetgerei.
- Vermoed kontak van die konsentraat of spuitmengsel met vel, oë of klere.
- Dra beskermende klere (ondeurdringbare handskoene en oog/gesigskerm) terwyl produk hanteer word.
- Was met seep en water direk na gebruik.
- Was beskermende toerusting en besoedelde klere na gebruik.
- Was onmiddellik met seep en water na toevallige velkontak.
- In geval van oogkontak, spoel deeglik met genoegsame water.
- Keer die leë houër om oor die spuittenk of mengbak en dreineer vir minstens 30 sekondes nadat die vloei tot 'n gedrup verminder het. Spoel die houër daarna **drie keer** uit met 'n volume water gelykstaande aan 'n minimum van een derde van die inhoud van die houër. Gooi die spoelwater by die inhoud van die spuittenk voordat die houër op die voorgeskrewe manier vernietig word.
- Vermoed wegdrywing van spuitnewel na ander gewasse, weiding, riviere, damme en

gebiede wat nie behandel moet word nie. Maak alle toerusting deeglik na gebruik skoon en gooi spoelwater uit waar dit nie die omgewing, gewasse, weidings, riviere en damme sal besoedel nie. Maak alle meng- en spuittoerusting na gebruik skoon en ook voordat dit vir ander produkte gebruik word.

- Hou kinders en diere weg van opgestapelde houers en afvalmateriaal.
- Vernietig die leë houer deur gate daarin te kap en plat te maak en daarvan op 'n veilige manier ontslae te raak in ooreenstemming met plaaslike regulasies. Moet dit vir geen ander doel gebruik nie.

### **SIMPTOME VAN MENSLIKE VERGIFTIGING**

Geen gevalle van menslike vergiftiging is al aangemeld nie. Onder laboratoriumtoestande was die simptome van menslike vergiftiging sedasie, asemnood, ooguitpeuling, gebuigde liggaamshouding en deurmekaar hare.

Simptome van vergiftiging mag ook die volgende insluit: Irritasie van vel en slymvliesmembrane, oogirritasie, allergiese velreaksie en velsensitasie. Indien groot hoeveelhede **MENTOR** ingesluk word, mag dit naarheid, braking, maagpyn en maagwerking veroorsaak.

### **NOODHULPBEHANDELING**

Kontak 'n dokter indien vergiftiging vermoed word. Verwyder die pasiënt van verdere kontak met die plaagmiddel en hou persoon in goed-geventileerde plek.

Hou die produkhouer, etiket of Veiligheid-Inligtingsblad byderhand wanneer die gifbeheersentrum of dokter geskakel word of wanneer vir behandeling gaan.

**Oë:** Spoel oë met baie water vir 15 minute uit terwyl ooglede oopgehou word indien nodig. Verwyder kontaklense. **Verkry onmiddellik mediese bystand.**

**Vel:** Spoel liggaam onmiddellik met groot hoeveelhede water. Verwyder besoedelde klere en skoene. Was geaffekteerde dele met seep en water. Moenie vel vryf nie. Was besoedelde klere voor hergebruik. Verkry mediese bystand indien irritasie voortduur.

**Ingesluk: Moenie enige iets per mond aan 'n bewustelose persoon ingee nie.** Indien ingesluk **MOENIE braking induseer nie.**

**Verkry onmiddellik mediese bystand** en wys die etiket, Veiligheid-Inligtingsblad of produkhouer aan die geneesheer.

**Inaseming:** Verwyder pasiënt na area met vars lug. Lê persoon neer en hou pasiënt warm en rustig. Indien asemhaling vlak is of opgehou het, verseker dat lugweë oop is en pas kunsmatige asemhaling toe.

**Verkry onmiddellik mediese bystand.**

### **NOTA AAN GENEESHEER**

Geen spesifieke teenmiddel is bekend nie. Behandel simptome en ondersteunend. Hou pasiënt onder konstante waarneming. Indien pasiënt nie bewusteloos is nie, doen maagspoeling en suiwering. Indien <10 mg per kg liggaamsgewig ingeneem is, mag 30 tot 60g geaktiveerde houtskool in 150 tot 300 ml water toegedien word.

### **GEBRUIKSBEPERKINGS**

Raadpleeg die verkoopsagent of jou plaaslike Verspreider vir op-die-plaas advies voordat **MENTOR** gebruik word.

**Moenie MENTOR as 'n vooropkoms behandeling op Mielies gebruik nie.**

**MENTOR** mag onder die volgende toestande skade aan sekere gewasse aanrig:

- ❖ Ingeteelde ouerplante van gewaskultivars asook eksperimentele of nuut-vrygestelde kultivars. Raadpleeg eerstens die vervaardiger, verspreider of saadvoorsiener in hierdie verband.
- ❖ Tabak wat in baie sanderige gronde en/of gruisgronde geplant is, of waar vloedbesproeiing plaasvind.
- ❖ Graan- en voersorghum:
  - Wat in gronde met 'n hoë persentasie (>60%) fyn sand en/of swak struktuur het wat geneig is om te verdig na reën omdat hierdie gronde swak deurlug is.
  - Dieper as 50 mm geplant is.
  - Voersorghum wat in baie sanderige en/of gruisgrond geplant is, of waar vloedbesproeiing gedoen word.
  - Wat in lande met 'n hoë voorkoms van grondgedraagde siektes en/of waar monokultuur toegepas word.
  - Wat nie vooraf met 'n geskikte, geregistreerde saadbehandelingsmiddel behandel is om fitotosisiteit by asetaniliedprodukte te voorkom nie.
- ❖ Droëbone in lande met 'n hoë voorkoms van grondgedraagde siektes en/of waar monokultuur toegepas word.
- ❖ Droëbone in warm, droë toestande, veral wanneer 'n verdigte laag in die grond voorkom. Onder hierdie toestande kan droëbone gevoelig wees vir windskaide.
- ❖ Droëbone onder versuiptoestande op vlak, sanderige gronde minder as 100 mm diep, met 'n ondeurdringbare klei-ondergrond.

**MENTOR** mag slegs op voersorghum gebruik word wat sorghum x sorghum kruisings en sorghum x Sudangras kruisings is. Kruisings met *Pennisetum* spp. en kruisings wat die BMR gene bevat mag nie met **MENTOR** behandel word nie.

**MENTOR** mag op graan- en voersorghum gebruik word wat vooraf met 'n geskikte, geregistreerde saadbehandelingsmiddel behandel is om fitotosisiteit by asetaniliedprodukte te voorkom.

**Beskadiging aan triasien-sensitiewe gewasse mag onder die volgende toestande plaasvind:**

- ❖ Waar gronde met kalk behandel is om die grond pH reg te stel, sal die gewasskade dramaties verhoog in lande waar triasienes voorheen toegedien is. Dit is a.g.v. die triasienmolekules wat in die kleikompleks met kalsiumkatione vervang word en die triasien dus meer beskikbaar in die grondwater-kompleks word.
- ❖ Slegs mielies mag in die seisoen direk na die pH-regstelling met kalk geplant word.
- ❖ Geen triasien sensitiewe gewasse moet geplant word in die seisoen nadat die grond pH regstelling met kalk gemaak is nie. Hierdie geld selfs indien triasienes teen wisselbou dosisse die vorige jaar gespuit is.
- ❖ Triasien sensitiewe gewasse sluit alle breëblaargewasse in.
- ❖ Hierdie waarskuwings waarborg nie dat geen skade aan enige gewas, selfs die daaropvolgende mielie-aanplanting, gaan voorkom nie, aangesien groot hoeveelhede triasienes beskikbaar mag raak afhangend van die hoeveelheid kalk wat toegedien word en die reënval wat voorgekom het.

**Verhoogde effektiwiteit, fitotoksisiteit en verlengde nawerking mag onder die volgende toestande voorkom:**

- ❖ Verhoging van grond pH- vlakke bokant 7.0 kan toestande skep vir verhoogde effektiwiteit en verlaagde selektiwiteit. Die verhoogde pH mag verhoogde grondnawerking by sekere onkruidodders veroorsaak wat die keuse van opvolggewasse beïnvloed – veral dié onder besproeiing.
- ❖ In situasies waar pH regstellings gemaak is, neem kennis waar sulfonielureum,



triasolopirimidiensulfonanalied- en imidasolinoononkruidodders, wat almal sensitief is vir grond pH skommeling, gebruik is of gebruik gaan word.

Moenie op enige gewas of situasie aanwend wat nie in die voorskrijetiket verskyn nie

Moenie hierdie produk in kombinasie of tenkmengsel met enige ander produk of landboumiddel gebruik wat nie spesifiek op hierdie etiket gelys is nie. Meridian Agrochemical Company (Edms.) Bpk. aanvaar geen verantwoordelikheid vir enige negatiewe gevolge indien die instruksies op die etiket nie nagekom word nie, tensy 'n Meridian verteenwoordiger vooraf geraadpleeg is.

Indien ander produkte in 'n tenkmengsel met **MENTOR** gebruik word, raadpleeg altyd die etikette van daardie spesifieke produkte vir die gebruiksaanwysings en -beperkings, asook vir die wisselbou-aanbevelings.

Raadpleeg 'n Meridian Agritech verteenwoordiger vir besonderhede.

### **WEERSTANDSWAARSKUWING**

Vir weerstandsbestuur is **MENTOR** 'n groepkode K3 onkruiddoder. Enige onkruidpopulasie mag individue insluit wat 'n natuurlike weerstand teen **MENTOR** of enige ander groepkodes K3 onkruiddoder het. Die weerstandbiedende individue kan uiteindelik die onkruidpopulasie oorheers indien hierdie onkruidodders herhaaldelik gebruik word. Hierdie weerstandbiedende onkruid sal waarskynlik nie deur **MENTOR** of enige ander groepkodes K3 onkruiddoder beheer word nie.

#### **Om weerstand teen onkruidodders te vertraag:**

- Vermoed die eksklusiewe herhaaldelike gebruik van onkruidodders met dieselfde groepkode. Wissel af met, of gebruik tenkmengsels van, produkte in verskillende onkruiddodergroepkodes.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies) in onkruidbeheerprogramme.
- Hou onkruiddoderrekords van elke kamp.
- Verhoed dat weerstandbiedende onkruidsaad en plantegroei na ander kampe beweeg deur oes- en bewerkingstoerusting skoon te maak en deur skoon saad te plant.
- Indien bewei, begin by die kamp met die laagste onkruidweerstand voordat na 'n kamp met 'n hoër weerstand beweeg word, want diere mag die saad versprei.
- Alle lande moet jaarliks ondersoek word om die ontwikkeling van weerstandigheid op 'n vroeë stadium te identifiseer.

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

Die is moeilik om die teenwoordigheid van weerstandbiedende onkruidde voor gebruik te bepaal en daarom kan nog die Registrasiehouer nog die Verpreider verantwoordelikheid aanvaar vir verliese a.g.v. **MENTOR** wat nie die weerstandbiedende onkruidde beheer nie. Moenie **MENTOR** op sy eie toedien in situasies waar onkruidweerstand bevestig is nie. Substandaard toedienings van **MENTOR** sal tot verswakte onkruidbeheer lei en mag tot die ontwikkeling van onkruiddoder weerstandigheid bydra. Dit is uiters belangrik om die behandelde gebiede noukeurig te ondersoek om te verseker dat onkruiddoder weerstandige onkruidde betyds geïdentifiseer word.

'n Plaasstrategie vir die voorkoming en bestuur van weerstand moet aangeneem word. Riglyne is deur die Onkruiddoder Weerstand Aksiegroep (Herbicide Resistance Action Group (HRAC)) ontwikkel en eksimplare is beskikbaar by HRAC, jou verspreider/agent, onafhanklike gewasraadgewer of by Meridian Agritech.

## **METODE VAN WERKING**

S-metolachlor is 'n seldelings-inhibeerder. Daar word berig dat chloorasetamiede die sintese van baie langketting vetsure inhibeer. S-metolachlor is 'n selektiewe onkruidododer wat hoofsaaklik deur die hipokotiele en lote geabsorbeer word en ontkieming inhibeer.

## **GEBRUIKSAANWYSINGS**

**Gebruik slegs soos aangedui.**

## **VERENIGBAARHEID**

Die verenigbaarheid van **MENTOR** met ander produkte hang van die formulering van die betrokke produkte af, asook die kwaliteit van die spuitwater wat gebruik word. Omdat formulering van tyd tot tyd kan verander, word dit aanbeveel dat 'n fisiese verenigbaarheidstoets uitgevoer word, voordat die tenkmengsel gemaak word. Moenie meng met enige ander produkte wat nie in hierdie etiket verskyn nie. **MENTOR** is verenigbaar met **ICHIBAN 100 EW, ZENIT, METRIBUZIN 750 WG, PREMIERE, ATRAZINE 900 WG, EQUATE SL, SCORCHER** en **MCPA 750 DMAX**.

## **MENGINSTRUKSIES**

**Plaas deksel terug na gebruik.**

Vul die spuittenk halfvol met skoon water en voeg dan die verlangde hoeveelheid **MENTOR** by die spuitwater terwyl dit geroer word. Maak tenk tot by die verlangde volume vol. Indien tenkmengsels met ander onkruidododers gemaak word, moet die onderskeie vervaardigersetikette vir aanbevelings gevolg word. Verseker dat die mengsel voor bespuiting homogeen is en dat roering deurgaans tydens bespuiting plaasvind.

Indien **MENTOR** in tenkmengsels met **MCPA 750 DMAX** of **EQUATE SL** gebruik word, moet hierdie verbinding eerste by die water gevoeg word. **MENTOR** moet laastens bygevoeg word, net voordat die verlangde volume bereik is. Indien **SCORCHER** in 'n tenkmengsel bygevoeg word, moet dit laaste gedoen word, nadat al die ander produkte bygevoeg is, en behoorlik gemeng word net voordat finale volume bereik is.

**Verseker konstante en deeglike roering tydens vermenging en toediening.**

**Tenkmengsels moet onmiddellik uitgespuit word en nie toegelaat word om in die spuittenk oornag te staan nie.** Spuittoerusting moet deeglik aan die einde van spuitproses uitgespoel word.

## **TOEDIENINGSMETODES**

### **Na-plant vooropkoms**

Wanneer in klam grond geplant word, moet **MENTOR** binne **drie dae vanaf plant** (verkieslik tydens plant) toegedien word op 'n fyn, egalige, ferm, goed-voorbereide saadbed, vry van onkruid, oormatige plantreste en groot kluite. Om goeie resultate te verseker, moet die toediening deur reën of besproeiing opgevolg word voordat die onkruid opkom. Indien reën of besproeiing nie betyds gebeur nie, en die onkruid verskyn en ontwikkel, kan 'n vlak bewerking gedoen word om die onkruid te vernietig en die onkruidododer met die top 10 – 20 mm grond te vermeng.

Wanneer in droë gronde (onvoldoende vog vir ontkieming) geplant word, moet **MENTOR** toegedien word so naby aan, maar definitief voordat, die eerste reën val. Onkruid wat ten tyde van die toediening opgekom het, sal nie beheer word nie.

### Na-opkoms (mielies)

**MENTOR** het 'n baie beperkte na-opkoms werking. Dit mag egter na-opkoms op die gewas toegedien word, direk na 'n bewerking, wanneer geen onkruid teenwoordig is nie. Onkruid wat na die bewerking teenwoordig is, sal nie deur **MENTOR** beheer word nie.

### GRONDTOEDIENING:

**MENTOR** mag toegedien word met 'n medium of hoë-volume spuit wat behoorlik gekalibreer is en met 'n effektiewe roeringsmeganisme toegerus is. Die keuse en rangskikking van die platwaaiertipe spuitpunte moet van so 'n aard wees dat egalige verspreiding en optimale herwinning van die onkruid doder verkry word. Die aanbevole hoeveelheid **MENTOR** moet in ten minste 200 l water/ha toegedien word.

### LUGTOEDIENING (Voor- en Na-opkoms)

Lugtoediening mag slegs deur 'n geregistreerde lugbespuitingsoperateur met 'n korrek gekalibreerde, geregistreerde vliegtuig volgens die instruksies van SANS Kode 10118 (Aerial Application of Agricultural Remedies) gedoen word. Dit is belangrik om te verseker dat die spuitmengsel eweredig oor die teikenarea versprei word en dat die verlies aan spuitmengsel tydens toediening tot 'n minimum beperk word. Dit is dus belangrik om aan die volgende vereistes te voldoen:

#### Toerusting

- Gebruik geskikte atomiseringsapparaat wat die vereiste druppelgrootte en bedekking sal produseer, maar wat die minste verlies van produk deur wegdrywing sal verseker.
- Die operateur moet 'n spuitkopstelsel opstel wat 'n druppelspektrum met die kleinste moontlike relatiewe spanwydte sal produseer.
- Al die spuitkoppe en atomiseerders moet in die binneste 60 - 75% van die vlerkspan geplaas word om te verhoed dat die druppels binne-in die vlerkvorteks inbeweeg

#### Toedieningsparameters

- 'n Minimum volume van 30l (vooropkoms) en 35l (na-opkoms) spuitmengsel per hektaar word aanbeveel. Aangesien hierdie produk nie teen 'n verlaagde volume getoets is nie, kan die registrasiehouer nie effektiwiteit waarborg, of verantwoordelik gehou word vir enige nadelige effek indien hierdie produk teen 'n laer volume as hierbo aanbeveel, uit die lug toegedien word nie.
- 'n Druppelbedekking van 20 - 30 (vooropkoms) en 30 - 45 (na-opkoms) druppels per vierkante cm moet op die teikenarea herwin word.
- 'n Druppelspektrum met 'n VMD van 350 - 400 (vooropkoms) en 300 - 350 (na-opkoms) mikron word aanbeveel. Verseker dat die produksie van fyn druppels (kleiner as 150 mikron) tot 'n minimum beperk word.
- Die hoogte van die spuitbalk moet tussen 3 en 4 meter bokant die teiken gehandhaaf word.
- Moenie spuit wanneer die vliegtuig besig is om te klim, te draai, te duik, of terwyl dit uitklim nie.

#### Meteorologiese Toestande

- Die verskil tussen die nat- en droëbollesing, soos met 'n swaaihigrometer bepaal, moet nie 8°C oorskry nie.
- Moenie tydens turbulente, onstabiele en droë toestande, of gedurende die hitte van die dag wanneer stygende en dalende konveksie-windbewegings plaasvind, toedien nie.
- Moenie tydens temperatuurinversie-toestande (deur bokant of binne-in die inversielaag te spuit) en/of gedurende hoë humiditeitstoestande toedien nie, aangesien dit kan lei tot:
  - iii. Verlaagde effektiwiteit a.g.v. suspensie of verdamping van klein druppels in die lug (wat tot onvoldoende bedekking op teiken lei).
  - iv. Skade aan ander sensitiewe gewasse en/of nie-teikenareas deur wegdrywing van die spuitwolk vanaf die teikenarea.

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- Moenie spuit wanneer die windspoed 15 km per uur oorskry nie.

#### Algemeen

- Verseker dat die lande akkuraat gemerk is en dat die spuitoperateur presies weet watter lande gespuit moet word.
- Verkry die versekering van die spuitoperateur dat aan die bogenoemde vereistes voldoen sal word en dat alle relevante data in 'n logboek opgeteken sal word vir toekomstige verwysing.
- **MENTOR** mag deur lugbespuiting toegedien word mits die spuitmengsel eweredig oor die teikengebied versprei word en dat die verlies aan spuitmengsel tydens die toediening tot 'n minimum beperk word.

#### SPILPUNTTOEDIENING

**MENTOR** mag met behulp van besproeiingswater vooropkoms (nadat geplant is, maar voordat onkruid of gewas opgekom het) toegedien word teen die toedieningshoeveelhede soos op die etiket verskyn. Gebruik slegs spilpuntsisteme wat water egalig toedien. Berei 'n mengsel met 'n minimum van een deel water tot een deel onkruiddoder voor en spuit hierdie mengsel met 'n posities-verplasende pomp in die spilpuntsisteme in. Deurdat 'n groter volume van 'n meer verdunde mengsel per uur ingespuut word, sal gewoonlik 'n meer akkurate kalibrasie van die meettoerusting teweegbring. Handhaaf voldoende roering deurgaans om die onkruiddoder in suspensie te hou. Dien toe in 12.5 – 25 mm water. Gebruik die laer watervolume op growwe tekstuur gronde en die hoër volume op gronde met fyner tekstuur. Meer as 25 mm water tydens toediening mag onkruidbeheer verswak deurdat die onkruiddoder onder die effektiewe sone in die grond beweeg.

#### Die volgende voorsorgmaatreëls moet met spilpuntoedienings gevolg word:

- ❖ Dien slegs toe deur 'n spilpunt wat 'n teensifon het en ondersoek kleppe om besoedeling van die waterbron te verhoed gedurende die afsit of met oorvloei van die mengseltenk.
- ❖ Spuit in voor enige reghoekige draai op die hooflyn om voldoende vermenging te verseker.
- ❖ Alle chemiese inspuitpompe en waterpompe moet ineengeskakelde kontroles hê om gelyktydige afsluiting te verseker.
- ❖ Toediening wanneer wegdrywing kan plaasvind, soos winderige toestande, of wanneer laste en verbindings lek, of wanneer spuitpunte nie egalige verspreiding verseker nie, mag gewasskade veroorsaak.
- ❖ Indien spinkelaarspuitpatrone nie voldoende oorvleuel nie, mag swak onkruidbeheer voorkom. Wanneer hierdie spinkelaarspuitpatrone oormatig oorvleuel mag gewasskade of onaanvaarbare residue voorkom.

#### AANBEVELINGS

#### GRONDBONE, SONNEBLUM EN BONE (DROË-, NIER- EN SOJABONE)

**TABEL 1: TOEDIENINGSHOEVEELHEID: MENTOR VIR GEWASSE HIERBO GENOEM**

GRONDTIPE	% KLEI	MENTOR (ml / ha)
Sand / Leemsand / Sandleem	0-20	600 – 800
Sandkleileem	21-30	800 – 1000
Sandkleileem / Sandklei	>30	1000 - 1300

Gebruik die hoër **MENTOR** dosis vir verbeterde beheer van **geeluintjie** (*Cyperus esculentus*) of waar hoë infestasië van **kruisvingergras** (*Digitaria sanguinalis*) voorkom, of waar die organiese materiaalinhoud van die grond 1.0% oorskry.

**MENTOR** kan vooropkoms op glifosaatbestande katoen en sojabone in kombinasie met **BOUNTY SL** na-opkoms toegedien word.

**TABEL 2: TOEDIENINGSHOEVEELHEID: MENTOR + EQUATE SL OP DROËBONE**

GRONDTIPE	% KLEI	MENTOR (mℓ / ha)	EQUATE SL (mℓ / ha)
Sand / Leemsand	0-15	600	300
Sandleem / Sandkleileem	16 - 25	600	400
Sandkleileem / Sanddklei	26-35	800	500
Sandklei / Turf	>35	Nie aanbeveel nie	Nie aanbeveel nie

**TABEL 3: TOEDIENINGSHOEVEELHEID: MENTOR + EQUATE SL OP GRONDBONE EN SOJABONE**

GRONDTIPE	% KLEI	MENTOR (mℓ / ha)	EQUATE SL (mℓ / ha)
Sand / Leemsand / Sandleem	0-25	500 - 800	400
Sandkleileem / Sanddklei	26-35	800 - 1000	500
Sandklei / Turf	>35	Nie aanbeveel nie	Nie aanbeveel nie

**Notas tot Tabel 2 en 3**

- ❖ Die tenkmengsel van **MENTOR** plus **EQUATE SL** mag gewas beskadig indien op grond met 'n pH (H<sub>2</sub>O) van meer as 7.0 gebruik word.
- ❖ Die beheer van sekere onkruid mag onder die volgende toestande negatief beïnvloed word:
  - a) 'n Swak-voorbereide saadbed.
  - b) Gronde met 'n pH (H<sub>2</sub>O) van minder as 5.0.
  - c) Droë toestande direk na toediening of onvoldoende reënval op swaar gronde.
- ❖ Die dosis van **MENTOR** mag in Tabel 3 verhoog word in ooreenstemming met die verhoogde klei-inhoud binne elke grondtipe-groep. Raadpleeg die **EQUATE SL** etiket vir volledige besonderhede.

**GRAAN- EN VOERSORGHUM**

**MENTOR** mag in graan- en voersorghum gebruik word, mits die sorghumsaad behoorlik met **SAFENIM** op die voorgeskrewe manier behandel is. Die dosisse in Tabel 3 word aanbeveel vir die beheer van eenjarige grasse en gedeeltelike beheer van *Cyperus esculentus*.

**MENTOR** mag slegs op voersorghum gebruik word wat sorghum x sorghum kruisings en sorghum x Sudangras kruisings is. Kruisings met *Pennisetum* spp. en kruisings wat die BMR gene bevat mag nie met **MENTOR** behandel word nie.

**TABEL 4: MENTOR TOEDIENINGSHOEVEELHEDE INDIEN OP SAFENIM-BEHANDELDE SORGHUM TOEGEDIEN WORD**

GRONDTIPE	% KLEI	MENTOR (mℓ / ha)
Sand / Leemsand / Sandleem	0-20	Nie aanbeveel nie
Sandkleileem	21-30	800
Sandklei	31-40	900
Turf	>40	900 – 1300

**Notas:**

- ❖ *Brachiaria eruciformis* mag op turfgronde 1.3 ℓ / ha **MENTOR** vir goeie beheer benodig. Hierdie dosis mag ook die beheer van *Cyperus esculentus* verbeter.

- ❖ Gebruik die hoër **MENTOR** dosis waar hoë infestasië *Digitaria sanguinalis* (kruisvingergras) voorkom.
- ❖ Indien graan- en voersorghum nie vooraf deeglik met **SAFENIM** behandel is nie, kan **MENTOR** ernstige gewasskade veroorsaak.
- ❖ Indien 'n grondkors vorm, moet dit onmiddellik opgebreek word deur 'n vlakbewerking.
- ❖ **MENTOR** kan graan- en voersorghum tydelik beskadig wanneer baie nat grondtoestande 4 – 6 weke na plant voorkom. Die gewas sal gewoonlik hierdie beskadiging ontgroeï en dit sal geen effek op die oesopbrengs hê nie.

#### **TABAK (Slegs Somerreëvalstreek)**

Dien **MENTOR** toe as 'n voloppervlakte bespuiting binne 3 dae na uitplant van die tabak terwyl die plante nog verlep is. Indien **MENTOR** op aktiefgroeiende tabakplante gespuit word, moet die spuitbaan so gerig wees dat dit nie die kelkblaar binnedring en s.d. die groeipunt beskadig nie. Waar **MENTOR** op blare van aktiefgroeiende tabakplante toegedien word, mag skroei voorkom. Op ligte gronde (0 – 10% klei), mag **MENTOR** slegs tussen plantrye toegedien word op so 'n wyse dat 'n onbehandelde strook van ongeveer 20 – 25 cm wyd, bo- op die walle gelaat word (d.i. 10 cm aan beide kante van die plantry).

Bestaande onkruid moet eers verwyder word voordat **MENTOR** toegedien word. Dit mag meganies, met die hand of deur die toediening van **SCORCHER** onmiddellik voor uitplant geskied. Enige groeiende onkruid wat teenwoordig is met tyd van toediening van **MENTOR** sal nie beheer word nie.

Waar tabakplante op walle geplant is, gebruik die 110° spuitpunte en posisioneer die spuitpunte tussen die walle. Dit sal egalige verspreiding van die onkruid doder verseker.

Om **MENTOR** te aktiveer moet sprinkelbesproeiing van ten minste 10 mm, maar nie meer as 15 mm (op gronde met minder as 35.0% klei) en ten minste 20 mm, maar nie meer as 30 mm (op gronde met meer as 35.0% klei), toegedien word binne 2 – 3 dae na 'n **MENTOR** toediening. **Slegs sterk en gesonde plante moet uitgeplant word.**

Indien tabakplante se wortels aan **MENTOR** blootgestel word ten tyde van toediening sal dit die plante nadelig beïnvloed. Gevolglik moet verseker word dat uitplant sorgvuldig geskied.

#### **TABEL 5: MENTOR TOEDIENINGSHOEVEELHEDE OP TABAK:**

<b>GRONDTIPE</b>	<b>% KLEI</b>	<b>MENTOR (mℓ / ha)</b>
Sand	0-10	500
Leemsand / Sandleem	11-20	700
Sandkleileem	21-35	1000
Sandklei	>35	1400

#### **EUCALYPTUS SPP.- EN DENNEBOOMPLANTASIE**

**MENTOR** mag onmiddellik na uitplant op die jongbome op 'n goed-voorbereide saadbed toegedien word.

Indien grasonkuid alreeds teenwoordig is met planttyd, word daar aanbeveel om 'n tenkmengsel van **SCORCHER** en **MENTOR** voor plant toe te doen.

Dien **SCORCHER** toe teen die aanbevole dosisse van die vervaardiger. **SCORCHER** sal die onkruid wat opgekom het beheer en 'n vooropkoms situasie vir **MENTOR** skep om effektief te kan werk.

Indien grasonkuid teenwoordig is nadat die bome geplant is, mag die **MENTOR** toediening 1 week later opgevolg word met 'n geskikte geregistreerde onkruid doder soos deur die vervaardiger aanbeveel vir die beheer van grasse wat alreeds opgekom het.

**TABEL 6: MENTOR TOEDIENINGSHOEVEELHEDE OP EUCALYPTUS SPP. – EN DENNEBOOMPLANTASIES**

GRONDTIPE	% KLEI	MENTOR (mℓ / ha)
Sand / Leemsand / Sandleem	0-20	1000
Sandkleileem	21-30	1300
Sandkleileem / Sandklei	>30	1600 - 2000

**Nota**

- ❖ Gebruik die hoër dosis waar die organiese materiaalinhoud van die grond 1.0% oorskry.

**MIELIES**

**Nawerkende grasbeheer**

Nawerkende grasbeheer na 'n vooropkoms toediening van **SIGNET 915 EC** mag verleng word met 'n na-opkoms toediening van **MENTOR**. Hierdie toediening moet gemaak word nadat 'n deeglike bewerking gedoen is, aangesien grasse wat opgekom het, nie beheer sal word nie.

**TABEL 7: MENTOR NA-OPKOMS TOEDIENINGSHOEVEELHEDE OP MIELIES**

GRONDTIPE	% KLEI	MENTOR (mℓ / ha)
Sand	0-10	350
Leemsand / Sandleem	11-20	300
Sandkleileem	21-30	350
Sandkleileem / Sandklei	31-40	350 - 500
Sandklei / Turf	41-50	350 - 500

**Notas**

- ❖ Indien **SIGNET** plus **MENTOR** split-behandeling gekies word (vergelyk **PREMIERE + SIGNET 915 EC** behandeling: bladsy 6-8 in die **PREMIERE** etiket) op gronde wat meer as 30% klei bevat, kan die dosis van **MENTOR** afgewissel word volgens die graad van vooropkomsbeheer verkry en die heersende weersomstandighede.
- ❖ Die hoër **MENTOR** dosis mag gebruik word indien die grasonkruidreeds begin verskyn het met tyd van die na-opkoms toediening.

**Na-opkoms toediening op glifosaatbestande mielies:**

**MENTOR** mag in 'n tenkmengsel met **PREMIERE** en **BOUNTY SL** op glifosaatbestande mielies toegedien word om 'n uitklopaksie en nawerkende onkruidbeheer te verkry.

**PREMIERE** moet na-opkoms soos volg toegedien word:

- ❖ Wanneer die teiken-grasse tussen die 2 en 3 – blaarstadium is.
- ❖ Wanneer die teiken-breëblaaronkruidre tussen die 2 en 6 – blaarstadium is.

Enige individuele plant wat nie die glifosaatbestande geen bevat nie sal sterf wanneer met glifosaat-produkte soos **BOUNTY SL** gespuit word. Uiterste voorsorg moet getref word om nie hierdie tenkmengsel op nie-glifosaatbestande mielies toe te dien nie.

Wanneer **MENTOR** met **PREMIERE** en **BOUNTY SL** in tenkmengsels gebruik word:

- ❖ Ammoniumsulfaatbevattende produkte moet gebruik word om die kwaliteit van die waterstatus reg te stel.
- ❖ Geen bymiddels moet gebruik word nie.
- ❖ Geen ander triasiene mag by hierdie tenkmengsel gevoeg word nie.

- ❖ Die **BOUNTY SL** en **PREMIERE** etikette moet noukeurig aan voldoen word.

**MENTOR** plus **PREMIERE** mag nie met ander glifosaatbevattende produkte anders dan as **BOUNTY SL** toegedien word nie.

#### SUIKERRIET

##### Vooropkoms-toediening

Dien 1000 – 1600 mℓ / ha **MENTOR** op alle grondtipes as 'n vooropkomsbehandeling toe. Die hoër dosis word op grond met 'n klei-inhoud van meer as 30% aanbeveel en op grondtipes waar:

- ❖ *Panicum maximum* 'n probleem is en/of
- ❖ vir verbeterde beheer van *Cyperus esculentus* en/of
- ❖ vir langer nawerkende beheer.

Dien **MENTOR** teen 2000 mℓ / ha toe indien die organiese materiaalinhoud van die grond nie 1.0%, en die klei-inhoud nie 30%, oorskry nie.

Deurdat dit nie altyd moontlik is om die onkruidodder voor die opkoms van die onkruid toe te dien nie, word dit aanbeveel om 1500 mℓ / ha **SCORCHER** by bogenoemde **MENTOR** spuitmengsel te voeg waar onkruid begin opkom het.

Om goeie breëblaaronkruidbeheer te verseker word aanbeveel om **MCPA 750 DMAX** by die **MENTOR** te voeg.

##### Na-opkoms toediening:

Deurdat **MENTOR** geen na-opkoms werking het nie, sal dit nie onkruid beheer wat alreeds opgekom het nie. Dit mag egter na-opkoms toegedien word mits dit in tenkmengsels met geskikte na-opkoms onkruidodders geskied wat die onkruid wat alreeds opgekom het sal beheer. Sulke behandelings word hieronder aanbeveel:

- ❖ **MENTOR + DIURON 80 WG + SCORCHER.**  
Dien toe per ha: 1000 – 1600 mℓ **MENTOR** in 'n tenkmengsel met 2 – 2.5 kg **DIURON 80 WG** + 1500 mℓ **SCORCHER**.  
Moenie 'n benatter by hierdie behandeling voeg nie.

##### Nota:

- Die bogenoemde na-opkoms behandeling moenie later as die 3-blaarstadium van die grasonkruid toegedien word nie.
- Die bogenoemde na-opkoms behandeling wat **SCORCHER** bevat mag tot by die 3-blaarstadium van die gewas toegedien word.
- Gebruik die hoër dosis van **DIURON 80 WG** vir langer nawerkende beheer.
- Dien **MENTOR** teen 2000 mℓ / ha toe indien die organiese materiaalinhoud van die grond nie 1.0%, en die klei-inhoud nie 35%, oorskry nie.

##### ONKRUIDE BEHEER:

Die volgende onkruidsoorte word normaalweg deur 'n vooropkomstoediening van **MENTOR** beheer teen die dosisse soos hierbo aangedui, op sy eie, of in 'n tenkmengsel met **EQUATE SL** en **METRIBUZIN 75WG** soos aangedui:

Wetenskaplike naam	Gewone naam
<i>Bidens pilosa</i>	Gewone knapsekêrel
<i>Brachiaria eruciformis</i>	Litjiesinjalgras
<i>Chloris virgata</i>	Witpluim Chloris



<i>Digitaria sanguinalis</i>	Kruisvingergras
<i>Panicum maximum</i>	Gewone buffelsgras
<i>Schkuhria pinnata</i>	Kleinkakiebos
<i>Tragus racemosus</i>	Groot wortelsaadgras
<i>Urochloa panicoides</i>	Beesgras

Die beheer van die volgende onkruid mag wisselvallig wees:

Wetenskaplike naam	Gewone naam
<i>Amaranthus hybridus</i>	Gewone misbredie
<i>Amaranthus thunbergii</i>	Roomisbredie
<i>Cyperus esculentus</i>	Geeluintjie
<i>Datura ferox</i>	Grootstinkblaar
<i>Portulaca oleracea</i>	Porslein

#### NOTA

Verwys asb. na die produkietiket van **EQUATE SL** en **METRIBUZIN 75WG** vir 'n lys van bykomende onkruid wat beheer mag word.

**MENTOR**-toedienings beheer verskeie onkruid soos hierbo gelys. Ander onkruid wat nie teenwoordig was gedurende die ontwikkelingsproewe nie, mag ook tot 'n mate beheer word. Die registrasiehouer aanvaar geen verantwoordelikheid vir ongelyste onkruid nie.

#### Belangrik: Geeluintjies (*Cyperus esculentus*)

Die beheer van *Cyperus esculentus* kan verbeter word mits aan die volgende voorwaardes voldoen word:

- Die plantproses onmiddellik voorafgegaan word deur 'n deeglike skaarploegbewerking.
- 'n Relatiewe fyn, egalige en ferm saadbed voorberei is.
- Onkruidodertoediening voorafgegaan word met ten minste 10 – 20 mm sagte deurdringende reën of besproeiing om die onkruidodder in die grond in te loog voor die opkoms van *Cyperus esculentus* (normaalweg 7 – 10 dae nadat geploeg is). Die voorkoms van hierdie toestande sal meer geneig wees om voor te kom gedurende die laaste helfte van die plantseisoen (November). Meer reën of besproeiing word op swaar gronde benodig om goeie resultate te verkry. Dit is die rede vir swak beheer wat soms op turfgronde ondervind word.
- Reënval na die onkruidodertoediening, maar voor die opkoms van *Cyperus esculentus* word benodig vir optimale *Cyperus esculentus* beheer. Gevolglik moet die toediening van **MENTOR** tydens of onmiddellik na die die plantproses in klam grond gedoen word.
- Wanneer in droë grond (onvoldoende vog vir *Cyperus esculentus* ontkieming) geplant word, moet die toediening so naby as moontlik, maar beslis voor die eerste reëns, plaasvind.

#### Grasbeheer:

Grasdoeders wat tot die chloorasetamiedgroep van onkruiddoeders (insluitend **MENTOR**) behoort word deur die koleoptiel van die grasonkruid geabsorbeer. Dus, vir goeie grasbeheer, moet die onkruidodder teen dodende konsentrasies in die boonste  $\pm 50$  mm van die grondprofiel teenwoordig wees. Die adsorpsie-kapasiteit van die grond vir hierdie onkruiddoeders, asook die hoeveelheid water wat deur die grondprofiel beweeg met reën/besproeiing, bepaal die gevolglike konsentrasie van hierdie onkruidodder in die boonste lae van die grondprofiel. As gevolg van die lae adsorpsie kapasiteit van sanderige gronde (0-15% klei, <1.0% organiese materiaal), kan die hoeveelheid onkruidodder tot subdodende konsentrasies in die boonste  $\pm 50$  mm na die voorkoms van deurdringende reën (25 mm of meer binne 1 dag) voorkom. Aanhoudende reën (50 mm of meer, verspreid oor 3 – 7 dae) sal dieselfde resultaat hê. Dit kan dus gebeur dat grasse ontkiem indien sulke toestande

voortduur. Splittoedienings word aanbeveel indien **MENTOR** op sulke grond gebruik word. Deurdringende en/of aanhoudende reën nadat splittoedienings gemaak is, sal dieselfde resultaat tot gevolg hê.

#### **ERKENNING VAN HANDELSMERKE**

Atrazine 900 WG (L 8890)	Meridian Agrochemical Company (Edms.) Bpk.
Bounty SL (L 7268)	Meridian Agrochemical Company (Edms.) Bpk.
Diuron 80 WG (L 9653)	Meridian Agrochemical Company (Edms.) Bpk.
Equate SL (L 7158)	Meridian Agrochemical Company (Edms.) Bpk.
Ichiban 100 EW (L 9248)	Meridian Agrochemical Company (Edms.) Bpk.
MCPA 750 DMAX (L 9020)	Meridian Agrochemical Company (Edms.) Bpk.
Premiere (L 9116)	Meridian Agrochemical Company (Edms.) Bpk.
Safenim (L 8682)	Meridian Agrochemical Company (Edms.) Bpk.
Scorcher (L 9085)	Meridian Agrochemical Company (Edms.) Bpk.
Signet 915 EC (L 9071)	Meridian Agrochemical Company (Edms.) Bpk.
Zenit (L 9073)	Meridian Agrochemical Company (Edms.) Bpk.