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# TRIANEX



Reg. no. L10765 Act/Wet 36 of/van 1947

A water dispersible granular herbicide in a water soluble bag for selective pre-emergence control of broadleaf weeds and the suppression of some grasses in barley and wheat in the Western and Eastern Cape as well as post-emergence broadleaf weed control in wheat, barley and oats in the Western and Eastern Cape and wheat in the Eastern Free State.

‘n Waterdispergeerbare korreloonkruidodder in ‘n wateroplosbare sakkie vir die selektiewe vooropkomsbeheer van breëblaaronkruid en onderdrukking van sekere grasse in gars en koring in die Wes- en Oos-Kaap asook na-opkomsbeheer van breëblaaronkruid in koring, gars en hawer in die Wes- en Oos-Kaap en koring in die Oos-Vrystaat.

HRAC HERBICIDE GROUP CODE

2

HRAC ONKRUIDDODER GROEPKODE

## ACTIVE INGREDIENT/AKTIEWE BESTANDEEL

triasulfuron (sulfonyleurea) ..... 750 g/kg ..... triasulfuron (sulfonielurea)

## NET MASS/NETTO MASSA

..... kg

## REGISTRATION HOLDER/REGISTRASIEHOUER

ADAMA South Africa (Pty.) Ltd.  
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**TRIANEX is a trademark of a company of the ADAMA GROUP.  
TRIANEX is ‘n handelsmerk van ‘n maatskappy van die ADAMA GROEP.**

## CONTACT IN EMERGENCY/KONTAK IN NOOD

Griffon Poison Information Centre: +27 82 446 8946  
Tygerberg Poison Information Centre: +27 861 555 777

Batch number .....

Date of manufacture .....

UN no.:3077

Lotnommer

Datum van vervaardiging





## WARNINGS

- Poisonous if swallowed.
- Store under lock and key in a cool place.
- Store away from food and feed.
- Keep out of reach of children, uninformed persons and animals.
- Store away from sun and damp, in original tightly closed containers, in a well ventilated area.
- Very toxic to aquatic organisms and may cause long-term adverse affects in the aquatic environment.
- Avoid storage above 35° C.
- **Re-entry:** Do not enter treated area until spray deposit has dried unless wearing protective clothing.
- **Aerial application:** Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings. Do not spray over or allow the 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 guarantee 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, and 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 the spray mist.
- Avoid skin contact.
- Wash with soap and water after use.
- Wash contaminated clothing after use.
- Do not eat, drink or smoke while mixing or applying the product or before washing hands and face.
- Avoid spray drift onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean the applicator after use. Ensure that all traces of **TRIANEX** are removed. (Read sprayer clean-up).
- Prevent contamination of food, feed, drinking water and eating utensils.
- Dispose of surplus product in responsible manner. Do not bury in, or spray onto, any area under agricultural use.



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- Shake all the pesticide formulation out of the bag into the spray or mixing tank. Turn the bag inside out. Hold the bag over the spray or mixing tank and rinse the bag with running water for thirty seconds. Shake the rinsate off into the tank. Repeat the rinsing twice. Cut the bag into pieces and dispose of/via normal refuse disposal. Do not bury, burn or donate the bag to any other parties that may use it as a container for foodstuffs.

## RESISTANCE MANAGEMENT

For resistance management, **TRIANEX** is a group code **2** herbicide. Any weed population may contain individuals naturally resistant to **TRIANEX** and other group code **2** herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly and exclusively in programs. These resistant weeds may not be controlled by **TRIANEX** or any other group code **2** herbicides.

### To delay herbicide resistance:

- Avoid exclusive repeated use of herbicides from the same herbicide group code.
- Alternate or tank mix with products from different herbicide group codes.
- Integrate other control methods (chemical, cultural, biological) into weed control programs.

The occurrence of resistant weeds is difficult to detect prior to use. If the above measures are not strictly adhered to ADAMA South Africa (Pty.) Ltd. cannot accept responsibility for any losses that may result from the failure of **TRIANEX** to control resistant weeds.

- Always use **TRIANEX** as part of an integrated crop and resistance management program (strategy) in order to prevent weed resistance.
- This crop and resistance management strategy should always include sequences with herbicides of alternative modes of action e.g. **BOXER** or **DRAGON**.
- **TRIANEX** should only be used once a year per field. If it becomes necessary to spray escapee target plants, use herbicides from another chemical class.
- To control and eliminate resistant grasses e.g. ryegrass, the aim should be a total prevention of seeding by these resistant biotypes.
- **TRIANEX** and **BOXER + TRIANEX** or **DRAGON + TRIANEX** should be used as a tool to manage grass weed populations in order to
- prevent or delay resistance to products of various chemical classes
- control various levels of resistance to different products and chemical classes e.g. mainly class A (Fops and Dims) and class B(SUs)

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 adviser or ADAMA South Africa (Pty.) Ltd.

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



## USE RESTRICTIONS

- Do not use **TRIANEX** on soils where the pH (H<sub>2</sub>O) is 7 or higher and/or on soils containing free lime, as the residual activity of **TRIANEX** may be extended and crop rotation options adversely affected beyond normal intervals. (Read the re-cropping instructions).
- Do not apply **TRIANEX** to cereals under sown with legumes.
- Do not apply **TRIANEX** to wheat, barley or oats that are stressed by severe weather conditions, drought, water logging, disease or insect damage.
- Dry conditions after a pre-emergence application of **TRIANEX**, can result in inferior control and suppression of weeds.
- Inferior weed control can be expected with pre-emergence applications of **TRIANEX** on sandy soils if this is followed by heavy rain.
- Continual or heavy rainfall on light soils particular (<15% clay) would lead to inconsistent weed control due to the leaching of the product from the germination zone of the weed seeds.
- Transient stunting of wheat may occur after pre-emergence applications of **TRIANEX**. This will have no effect on yield.
- Pre-emergence applications of **TRIANEX** on soil with excessive rocks, clods and stubble will result in inferior weed control. Excess straw should be either baled or burnt and the burnt ash should be incorporated.
- The best results will be obtained if **TRIANEX** is applied after cultivation properties were performed.

## MINIMUM RE-CROPPING INTERVALS AND CROP ROTATION GUIDELINES

- Crops other than wheat, barley and oats may be very sensitive to low concentrations of **TRIANEX** in the soil. Careful consideration should therefore be given to crop rotation prior to using **TRIANEX**.
- The minimum re-cropping interval is the time between the last application of **TRIANEX** and the anticipated date of planting a subsequent crop.
- To avoid injury to subsequent crops the following re-cropping intervals should be observed after applications of **TRIANEX**.

CROPS	PRE-EMERGENCE APPLICATION OF 37.5 g TRIANEX (MONTHS)	POST-EMERGENCE APPLICATION OF 13 - 15 g TRIANEX (MONTHS)
Wheat	0	0
Barley	8	6



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CROPS	PRE-EMERGENCE APPLICATION OF 37.5 g TRIANEX (MONTHS)	POST-EMERGENCE APPLICATION OF 13 - 15 g TRIANEX (MONTHS)
Oats	8	6
All lupines	11	9
Canola	11	10
Peas	11	9
All clover crops	13	11
All other crops	24	24

- If **TRIANEX** is used in a mixture with BRUSH-OFF consideration should also be given to the minimum re-cropping intervals for BRUSH-OFF.
- If **TRIANEX** is used in a mixture with BOXER or DRAGON, consideration should also be given to the re-cropping intervals for BOXER or DRAGON.

### IMPORTANT

The above mentioned waiting periods are valid only if the correct dosage rate of **TRIANEX** was applied on soils with a pH (H<sub>2</sub>O) of less than 7 and normal or above average rainfall fell during and following the season in which the application was made.

### WEEDS CONTROLLED

#### Pre-emergence weed control by TRIANEX

The following weed species are controlled by **pre-emergence** applications of **TRIANEX** at the dosage rates recommended below:

WEEDS CONTROLLED (WESTERN AND EASTERN CAPE)		PERCENTAGE CONTROL
<i>Anagallis arvensis</i>	Pimpernel	90 - 100
<i>Arctotheca calendula</i>	Cape marigold	90 - 100
<i>Fumaria muralis</i>	Fumitory	90 - 100
<i>Plantago lanceolata</i>	Narrow-leaved ribwort	90 - 100



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WEEDS CONTROLLED (WESTERN AND EASTERN CAPE)		PERCENTAGE CONTROL
<b>Variable control</b> <i>Raphanus raphanistrum</i>	Wild radish	90 - 100

WEEDS SUPPRESSED		PERCENTAGE CONTROL
<i>Emex australis</i>	Spiny emex	70 - 85
<i>Lolium multiflorum</i>	Italian ryegrass	70 - 90
<i>Oxalis</i> spp	Sorrel	80 - 90
<ul style="list-style-type: none"><li>• Weeds that escape the initial pre-emergence application of <b>TRIANEX</b> e.g. wild radish should be controlled post-emergence with herbicides from other chemical classes i.e. bromoxynil or MCPA.</li><li>• Follow-on applications should not be made with other sulphonylureas.</li><li>• Weed suppression is a visual reduction in weed population and/or vigour as compared to an untreated area.</li></ul>		

### Post-emergence weed control by **TRIANEX**

The following weed species are controlled with **post-emergence** applications of **TRIANEX** at the dosage rates recommended below:

WEEDS CONTROLLED (WESTERN AND EASTERN CAPE)		PERCENTAGE CONTROL
<i>Chenopodium murale</i>	Nettle-leaved goosefoot	90 - 100
<i>Malva parviflora</i>	Small mallow	90 - 100
<i>Pentzia</i> spp.	Stinkweed	90 - 100
<i>Raphanus raphanistrum</i>	Wild radish	90 - 100
<i>Sisymbrium capense</i>	Cape wild mustard	90 - 100
<i>Stellaria media</i>	Chickweed	90 - 100
<i>Silene gallica</i>	Gunpowder weed	90 - 100



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WEEDS SUPPRESSED		PERCENTAGE CONTROL
<i>Fumaria muralis</i>	Fumitory	70 - 90
<i>Oxalis pes-caprae</i>	Yellow sorrel	60 - 80
<i>Spergula arvensis</i>	Corn spurry	70 - 90
<i>Vicia spp.</i>	Vetch	70 - 90

Weed suppression is a visual reduction in weed population and/or vigour as compared to an untreated area.

If **Spiny emex** (*Emex australis*) and/or **Cape marigold** (*Arctotheca calendula*) is present in the Western and Eastern Cape or **Climbing knotweed** (*Bilderdykia convolvulus*) in the Eastern Free State, a tank mix of **TRIANEX** and CAMPATOP 225 EC (L5320) may be used with post-emergence applications. A tank mixture of **TRIANEX** and BRUSH-OFF may also be used for the control of post-emergence *E. australis* in the Western and Eastern Cape. If *Chenopodium album* is present in the Eastern Free State, a tank mix of **TRIANEX** and MCPA can be used post-emergence.

## DIRECTIONS FOR USE

Use only as indicated.

## GENERAL INFORMATION

**TRIANEX** is a water dispersible granular herbicide for selective pre-emergence control and suppression of several weeds in wheat and post-emergence broadleaf weed control in wheat, barley and oats in the Western and Eastern Cape regions and wheat in the Eastern Free State.

## PRE-EMERGENCE APPLICATION

- **TRIANEX** should be applied at planting or soon afterwards on a moist, fine, even, firm and freshly prepared seedbed free from excessive rocks, clods and stubble. For best results rain should occur soon after application.
- **TRIANEX** will deliver the best control in soils when application is done **after** any cultivation and/or planting or seeding exercise.
- The incorporation of **TRIANEX** will result in sub-optimal control of weeds. However if **TRIANEX** has to be incorporated the following considerations should be attended to :
  - incorporation should only be done on dry soils
  - incorporation should only be done on sandy soils
  - incorporation should be done very shallow (< 2,5cm deep)
  - the soil should be free of loose stones, clods and free organic matter i.e. cereal straw.
- If **TRIANEX** is to be applied pre-emergence with a wind assisted sprayer the wind action should be turned down completely.



## POST-EMERGENCE APPLICATION

- For best post-emergence results apply **TRIANEX** when weeds are young (seedling stage to 5 cm tall) and actively growing under moist conditions. Weeds under drought stress may be less susceptible. **TRIANEX** provides residual control of weeds germinating after spray application provided that it is carried into the root zone of germinating seedlings by adequate rainfall.
- The use of surfactants as recommended in APPLICATION RATES must be used to improve the post-emergence wetting and contact activity of **TRIANEX**.
- **TRIANEX** rapidly inhibits growth of susceptible weeds. However visible symptoms of dying weeds may not be noticeable for 1 to 3 weeks after application, depending on growing conditions and weed susceptibility.
- The breakdown of **TRIANEX** in the soil slows down as the pH increases (alkaline) and soil moisture decreases. **TRIANEX** should not be used on soils where the pH (H<sub>2</sub>O) is 7 or higher in order to meet the minimum recropping intervals specified.

## COMPATIBILITY

The compatibility of **TRIANEX** with other products may be influenced by the formulation of the products involved as well as the quality of the water. Since the formulation of other products may change without the knowledge of ADAMA South Africa Pty. (Ltd) and the quality of water may vary from farm to farm, a physical compatibility test should always be carried out prior to application.

- **TRIANEX** is compatible with BRUSH-OFF (L4535), BOXER (L8222), DRAGON (L10766), CAMPATOP® 225 EC (L5320) and MCPA (L1404) as recommended on this label. **TRIANEX** may only be mixed with **one** of the above-mentioned products at a time.
- **TRIANEX** is also compatible with BREAK-THRU (L5895) and COMPLEMENT SUPER (L8169)
- **DO NOT** mix with herbicides, insecticides, fungicides, fertilisers or any other chemicals not recommended on this label.

## MIXING INSTRUCTIONS

**TRIANEX** is a water dispersible granular formulation, which mixes easily with water, provided the following mixing procedures are implemented:

- Quarter to half fill the spray tank with water. Commence agitation. Add the appropriate amount of surfactant. Add the required quantity of **TRIANEX** water soluble bags directly to the tank without prior creaming. Continue agitation while topping up the tank with water and while spraying.
- Use **TRIANEX** spray preparations within 24 hours as the effectiveness may be reduced due to product degradation. Thoroughly agitate before re-using.
- If **TRIANEX** is tank mixed with other herbicides, insecticides and fungicides, the **TRIANEX** must be well mixed and in suspension before the other compounds are added.



## APPLICATION TECHNIQUES

### Ground application

- **TRIANEX, TRIANEX plus BRUSH-OFF, TRIANEX plus CAMPATOP 225 EC and TRIANEX plus MCPA** may be applied with any medium or high volume sprayer equipped with an efficient agitation mechanism which is capable of adequate coverage and even distribution. Best results are obtained using flat fan-type spray nozzles and applying a minimum spray volume of 200 L water/ha.
- To calibrate a knapsack sprayer: Mark a representative area of 10 m x 10 m (100 m<sup>2</sup>) on the soil to be sprayed. Fill the sprayer with water up to a calibration mark e.g. 20 litres. Spray the marked area evenly. Calculate the watervolume sprayed.
- Add the spray rate e.g. 0.375 g / 100 m<sup>2</sup> to the volume of water applied in the 100 m<sup>2</sup>.

### Aerial application (Western and Eastern Cape)

Aerial application of **TRIANEX** and **TRIANEX plus BRUSH-OFF** may only be done by a registered aerial application operator using a correctly calibrated, registered aircraft according to the instructions of SANS 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:

#### a) Application parameters:

- **Volume:** A volume of 30 L/ha (pre-emergence) and 35 ℓ/ha (post-emergence) 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 aurally at a lower volume rate than recommended above
- **Droplet coverage:** A droplet coverage of 20 - 30 droplets per cm<sup>2</sup> (pre-emergence) and 30 - 45 droplets per cm<sup>2</sup> (post-emergence) must be recovered at the target.
- **Droplet size:** 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 (less than 150 microns - high drift & evaporation potential) is restricted to a minimum.
- **Flying height:** The height of the spray boom should be maintained at 3 - 4 metres above the target. Do not spray when aircraft is in a climb, at the top of, or during a dive, or when banking.

#### b) Equipment:

- Use suitable atomising equipment (hydraulic nozzles or rotary atomisers) that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product either through endo-drift (within target field) or exo-drift (outside target field).
- The operator must use a set up that will produce a droplet spectrum with the lowest possible relative span.



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- All nozzles / atomisers should be positioned within the inner 60% to 75% of the wingspan to prevent droplets from entering the wingtip vortices.

**c) Meteorological conditions:**

- The difference in temperature between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8°C. The addition of a suitable anti-evaporant is recommended if the VMD of the droplets is less than 200 - 250 microns.
- Stop spraying if the wind speed exceeds 15 km/h.
- Aerial application of this product must not be done under turbulent, unstable conditions during the heat of the day when rising thermals and downdraughts occur.
- Also note that the application of this product under temperature inversion conditions (spraying in or above the inversion layer) may lead to the following:
  - Reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage)
  - Damage to other sensitive crops and or non-target areas through the movement of the suspended spray cloud away from the target field.
- **TRIANEX** and **TRIANEX** plus BRUSH-OFF may be applied aerially 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.

**It is essential to obtain an assurance from the aerial spray operator that the above requirements are met.**

## **APPLICATION RATES**

### **General weeds and "voorsaai" situations**

When weeds have emerged at planting, **TRIANEX** and **BOXER + TRIANEX** or **DRAGON + TRIANEX** can be applied in tank mixtures with either TOUCHDOWN FORTE or GRAMOXONE or ADAMA PARAQUAT or PREEGLONE to control the emerged weeds.

For the application rates of TOUCHDOWN FORTE, GRAMOXONE, ADAMA PARAQUAT or PREEGLONE refer to the relevant registered labels.



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**Pre-emergence applications: General weed control**

**TABLE 1: Application rates of TRIANEX for pre-emergence applications.**

TRIANEX can cause serious damage to barley. Care should be taken not to over apply TRIANEX due to calculation errors or double applications e.g. overlapping.

CROP	TRIANEX
	GROUND APPLICATION
Wheat Barley	37.5 g/ha
Knapsack sprayers: Wheat and Barley – 0.375 g TRIANEX/100 m <sup>2</sup>	

**Pre-emergence applications: General weed control and *Lolium multiflorum* control.**

TRIANEX can cause serious damage to barley. Care should be taken not to over apply BOXER + TRIANEX or DRAGON + TRIANEX due to calculation errors or double applications e.g. overlapping.

**TABLE 2: Pre-emergence application rates of BOXER or DRAGON +TRIANEX in wheat and barley.**

CROP	BOXER or DRAGON	TRIANEX	WEEDS BOTANICAL NAME	WEEDS COMMON NAME
Wheat Barley	3 L/ha	30 – 37.5 g/ha	<i>Anagallis arvensis</i>	Pimpernel
			<i>Arctotheca spp</i>	Cape marigold
			<i>Chenopodium muralis</i>	Nettled leave goosefoot
			<i>Coronopus didymus</i>	Twin cress
			<i>Cotula australis</i>	Brass buttons
			<i>Emex australis (65-90%)</i>	Spinney Emex
			<i>Erodium moschatum</i>	Musk heron's bill
			<i>Fumaria muralis</i>	Fumitory
			<i>Galium spp</i>	Gallium
			<i>Lolium multiflorum</i>	Italian ryegrass



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CROP	BOXER or DRAGON	TRIANEX	WEEDS BOTANICAL NAME	WEEDS COMMON NAME
			<i>Medicago polymorpha</i>	Bur clover
			<i>Phalaris canariensis</i>	Canaryseed grass
			<i>Polygonum aviculare</i>	Prostrate knotweed
			<i>Raphanis raphanistrum</i>	Wild radish
			<i>Silene spp</i>	Gunpowder weed
			<i>Vulpia myuros</i>	Rat's tail Fescue
<p><b>Development farmers and backpack sprayers</b>  <b>Wheat and Barley - 30 ml BOXER or DRAGON + 0.30 – 0.375 g TRIANEX/100 m<sup>2</sup></b></p>				

- Care should be taken to cover seed completely with 2 – 3 cm of soil after planting before the application of **BOXER +TRIANEX or DRAGON +TRIANEX**.
- Follow the recommendations on the **BOXER or DRAGON** label carefully.

**Post-emergence applications: General weed control.**

**TABLE 3: Post-emergence application rates of TRIANEX plus BRUSH-OFF or CAMPATOP 225 EC or MCPA:**

CROP	TRIANEX/HA	
	GROUND APPLICATION	AERIAL APPLICATION
<b>Wheat, Barley, Oats</b> (Western and Eastern Cape)	13 g	13 - 15 g
Use 13 g/ha for aerial application if <i>R. raphanistrum</i> does not exceed the 4-leaf stage. Apply <b>TRIANEX</b> when wheat, barley and oats are in the 2 - 6 leaf stage.		
<b>Wheat, Barley, Oats</b> (Western and Eastern Cape)	13 g <b>plus</b> 0.6 – 0.75 L/ha CAMPATOP 225 EC	<b>NOT RECOMMENDED</b>
<b>Wheat</b> (Eastern Free State)		
A tank mixture of 13 g <b>TRIANEX</b> and 0.6 L/ha CAMPATOP 225 EC can be used in the Western and Eastern Cape if <i>E. australis</i> is in the cotyledon to 3 leaf stage.		



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CROP	TRIANEX/HA	
	GROUND APPLICATION	AERIAL APPLICATION
Use the higher application rate of CAMPATOP 225 EC (0.75 L/ha) in the Western and Eastern Cape and in the Eastern Free State if <i>E. australis</i> is more advanced than the 3 - leaf stage.		
<b>Wheat, Barley</b> (Western and Eastern Cape)	13 g <b>plus</b> 3 g BRUSH-OFF	15 g <b>plus</b> 3 g BRUSH-OFF
If <i>E. australis</i> is present use <b>TRIANEX</b> in a tank mixture with BRUSH-OFF.		
To reduce the resistance risk to the sulfonylurea group of herbicides, substitute <b>TRIANEX</b> every third year with a <b>TRIANEX</b> plus MCPA mixture for the control of <i>R. raphanistrum</i> .		
<b>Wheat</b> (Eastern Free State)	15 g <b>plus</b> 2 - 4 L/ha MCPA	<b>NOT RECOMMENDED</b>
Use <b>TRIANEX</b> plus MCPA for the control of <i>C. album</i> in the Eastern Free State. Apply between growth stage 7 (centre double ridges enlarged) and 13 (awn of the top spikelets elongated) according to the list of growth stages of the ARC-Small Grain Institute, Bethlehem.		

### General Remarks

- The post emergence application of **TRIANEX** should always be sprayed in a tank mix with one of the following adjuvants:
  - COMPLEMENT SUPER      100 ml/ha
  - BREAKTHRU                      50 ml/100 L spray mixture
- Add **COMPLEMENT SUPER** to the post-emergence applications of **TRIANEX** plus CAMPATOP 225 EC as well as **TRIANEX** plus BRUSH-OFF treatments.
- For maximum weed control or suppression apply **TRIANEX**, **TRIANEX** plus BRUSH-OFF or **TRIANEX** plus CAMPATOP 225 EC to young weeds, preferably within 4 weeks after emergence of the crop.
- Degree of control and duration of effect depend on weed species, weed size, growing conditions at and following the period of application, soil pH, rainfall and soil organic matter content.
- Apply **TRIANEX** plus CAMPATOP 225 EC and **TRIANEX** plus MCPA in the Eastern Free State from early September after good spring rains provided that the mean temperature exceeds 10°C for three consecutive days.



## SPRAYER CLEANUP

- Special care must be taken to clean spray equipment immediately after spraying **TRIANEX**. To avoid injury to subsequent crops other than wheat, barley or oats, ensure that all traces of **TRIANEX** are removed as follows:
  - Drain spray system completely. With agitation running, thoroughly rinse tank with clean water and spray out rinsate through the nozzles. Drain system again.
  - Refill tank with clean water to approximately 15 - 20% of the tank capacity, thoroughly rinsing all inside tank surfaces.
  - With agitation running add 1 L sodium hypo chloride (5.2%) per 200 L of water. Spray out the rinsate through the nozzles for approximately 1 minute. Let remaining rinsate circulate within the spray system for a minimum of 5 - 10 minutes.
  - To remove traces of the tank cleaner, flush the tank thoroughly with clean water, rinsing all inside tank surfaces. Spray out the remaining rinsate through the nozzles and drain system.

**BOXER**<sup>®</sup> = Registered Trademarks of a Syngenta Group Company.

**COMPLEMENT**<sup>™</sup> = Proposed Trade name of a Syngenta Group Company.

**BRUSH-OFF**<sup>®</sup> = Registered Trademark of E. I. Du Pont de Nemours and Co., Wilmington, Delaware.

**CAMPATOP**<sup>®</sup> = Registered Trademark of Villa Crop Protection.

**BREAKTHRU** = Registered Trademark of Goldschmidt Chemical Corporation.

**DRAGON (L10766)** and **ADAMA PARAQUAT (L10792)** = registered products of ADAMA South Africa.

## WAARSKUWINGS

- Giftig indien ingesluk.
- Berg agter slot en grendel in 'n koel plek.
- Berg weg van voedsel en voer.
- Hou buite bereik van kinders, oningeligte persone en diere.
- Berg weg van sonlig en vogtigheid, in oorspronklike houers wat dig toegemaak is, in 'n goed geventileerde area.
- Baie giftig vir akwatiese organismes en mag langdurige negatiewe uitwerking op die akwatiese omgewing hê.
- Vermy berging bo 35° C.
- **Herbetreding:** Moet nie behandelde gebiede betree alvorens die spuitneerslag droog is nie tensy beskermende oorklere gedra word.
- **Lugtoediening:** Stel al die bewoners in die onmiddellike omgewing van die gebied wat bespuit gaan word in kennis en reik die nodige waarskuwings uit. Moet nie oor aangrensende gebiede spuit of die spuitnewel toelaat om dit te besoedel nie.

**Hoewel 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 die 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 toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei en die omgewing of nadelige invloede op mens of dier of vir 'n gebrek aan prestasie van die betrokke middel as gevolg van 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.**

## VOORSORGMAATREËLS

- Moet nie die spuitnewel inasem nie.
- Vermy velkontak.
- Was met seep en water na gebruik.
- Was besoedelde klere na gebruik.
- Moet nie eet, drink of rook tydens vermenging of toediening van die produk of voordat die hande en gesig gewas is nie.
- Vermy spuitnewel op ander gewasse, weiveld, riviere, damme en plekke wat nie behandel moet word nie.
- Maak toedieningsapparaat skoon na gebruik en maak seker dat alle spore van **TRIANEX** verwyder is. (Lees skoonmaak van spuit.)
- Voorkom die besoedeling van voedsel, voer, drinkwater en eetgerei.



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- Die vernietiging van oortollige produk moet op die korrekte wyse geskied. Moet dit nie begrawe of spuit op enige gebied wat onder landboukundige gebruik is nie.
- Skud al die plaagdoderformulasie uit die sak in die spuit-of mengtenk. Dop die sak se binnekant na buite uit. Hou die sak oor die spuit- of mengtenk en spoel die sak vir dertig sekondes met lopende water. Skud die spoelwater in die tenk af. Spoel nog twee keer. Sny die sak in stukke en gooi weg volgens normale afvalverwerking. Moet nie die sak begrawe, verbrand of aan enige ander partye skenk wat dit as houer vir voedsel mag gebruik nie.

## WEERSTANDBESTUUR

Vir die doel van weerstandbestuur, word **TRIANEX** as 'n groepkode 2 onkruidoder geklassifiseer. Enige populasie van 'n spesifieke onkruid mag individue insluit wat 'n natuurlike weerstand teen **TRIANEX**, of enige ander groepkode 2 onkruidoder het. Indien hierdie onkruidoders in herhaaldelike en eksklusiewe programme aangewend word, kan die weerstandbiedende individue uiteindelik die onkruid populasie oorheers. Hierdie weerstandbiedende onkruid sal waarskynlik nie deur **TRIANEX** of enige ander groepkode 2 onkruidoder, beheer word nie.

### Om weerstand teen onkruidoders te vertraag:

- Vermy die herhaaldelike en eksklusiewe gebruik van onkruidoders in dieselfde onkruidoder groepkode.
- Wissel af met, of gebruik tenkmengels van produkte in verskillende onkruidoder groepkodes.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies) in onkruidoder programme.

Die voorkoms van weerstandbiedende onkruid is moeilik om voor bespuiting te bepaal. Indien nie aan die bogenoemde maatreëls voldoen word nie, kan ADAMA Suid-Afrika (Pty.) Ltd. nie verantwoordelik gehou word vir enige verliese wat mag voorkom weens die gebrek aan beheer deur **TRIANEX** op weerstandbiedende onkruid.

- Gebruik **TRIANEX** altyd as 'n deel van 'n geïntegreerde gewas en weerstandbiedendheidsbestuursprogram (strategie) om onkruidweerstandbiedendheid te voorkom.
- Hierdie weerstandbiedendheidsbestuursprogram moet onkruidoders van verskillende werkings insluit bv. **BOXER of DRAGON**.
- **TRIANEX** moet slegs een keer per jaar per land gebruik word. Indien dit nodig is om plante wat nie beheer is nie te spuit, gebruik onkruidoders van 'n ander chemiese klas.
- Om weerstandbiedende grasse bv. raaigras te beheer en te elimineer moet die strategie wees om plante van veral hierdie weerstandbiedende populasie nie toe te laat om saad te stort nie.
- **TRIANEX en BOXER + TRIANEX of DRAGON + TRIANEX** moet gebruik word om gras populasies te bestuur om:
  - weerstandbiedendheid teen verskillende produkte van verskillende chemiese groepe te verhoed of te vertraag.
  - verskillende grade van weerstandbiedendheid teenoor verskillende produkte of chemiese klasse van produkte (bv. hoofsaaklik klas A (Fops en Dim's) en klas B (Su's) beheer kan word.



'n Plaaslike plaasstrategie vir die voorkoming en bestuur van weerstandbiedendheid moet ontwikkel word. Riglyne is ontwikkel deur die "Herbicide Resistance Action Group" (HRAC) en kopieë is verkrygbaar vanaf HRAC, handelaars, agente, onafhanklike gewas konsultante of ADAMA Suid-Afrika (Pty.) Ltd.

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

### **GEBRUIKSBEPERKINGS**

- Moet nie **TRIANEX** gebruik op gronde met 'n pH (H<sub>2</sub>O) van 7 of meer en/of gronde wat vry kalk bevat nie aangesien die residuele aktiwiteit van **TRIANEX** verleng mag word met gevolglike verlenging van wagperiodes vir opvolggewasse, buite normale intervalle. (Lees die wisselbou-aanwysings).
- Moet nie **TRIANEX** toedien op graan ondersaai met peulgewasse nie.
- Moet nie **TRIANEX** toedien op koring, gars of hawer wat onder stremming verkeer a.g.v. strawwe weerstoestande, droogte, versuiping, siekte- of insekbeskadiging nie.
- Droë toestande na 'n vooropkomstoediening van **TRIANEX** mag aanleiding gee tot swakker beheer of onderdrukking van onkruid.
- Onvoldoende onkruidbeheer kan verwag word met vooropkomstoediening van **TRIANEX** op sanderige gronde as swaar reëns na toediening voorkom.
- Aanhoudende en/of swaar reëns op veral ligte gronde (< 15 % klei) sal lei tot wisselvallige onkruidbeheer as gevolg van loging van die produk vanuit die ontkiemings sone van die onkruid sade.
- Tydelike verdwering van koring mag voorkom na vooropkomstoedienings van **TRIANEX**. Dit het egter geen nadelige invloed op die opbrengs nie.
- Vooropkomstoedienings van **TRIANEX** op gronde wat oormatig kluite, klippe en 'n dik strooilaag het sal swakker onkruidbeheer tot gevolg hê. Oortollige strooi moet gebaal word of gebrand word en die as moet ingewerk wees voor toediening in aanvang neem.
- Die beste resultate sal verkry word indien **TRIANEX** toegedien word nadat alle bewerkings uitgevoer is.

### **Minimum wagperiodes en wisselbou-aanwysings**

- Gewasse anders as koring, gars en hawer kan baie sensitief wees teenoor lae konsentrasies **TRIANEX** in die grond. Deeglike oorweging moet dus gegee word aan wisselbou alvorens **TRIANEX** gebruik word.
- Die minimum wagperiode dui op die tydsverloop vanaf die laaste toediening van **TRIANEX** tot die verwagte tyd van aanplanting van 'n opvolggewas.
- Om skade aan opvolggewasse te voorkom, moet die volgende wagperiodes in ag geneem word indien **TRIANEX** toegedien is:



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GEWASSE	VOOROPKOMS TOEDIENING VAN 37.5 G TRIANEX (MAANDE)	NA-OPKOMS TOEDIENING VAN 13 - 15 G TRIANEX (MAANDE)
Koring	0	0
Gars	8	6
Hawer	8	6
Alle lupienes	11	9
Kanola	11	10
Ertjies	11	9
Alle klawer gewasse	13	11
Alle ander gewasse	24	24

- Indien **TRIANEX** in 'n mengsel saam met BRUSH-OFF gebruik word, moet die minimum wisselbouwagperiodes van BRUSH-OFF, ook in ag geneem word.
- Indien **TRIANEX** in kombinasie met **BOXER of DRAGON** gebruik word moet die wisselbou wagperiodes van **BOXER of DRAGON** in aggeneem word.

### Belangrik

Bogenoemde wagperiodes geld slegs indien die korrekte hoeveelheid **TRIANEX** toegedien is op gronde met 'n pH (H<sub>2</sub>O) minder as 7 en normale of bogemiddelde reënval voorgekom het gedurende die seisoen waarin die toediening gemaak is en daarna.

### ONKRUIDE WAT BEHEER WORD

#### Vooropkoms onkruidbeheer van TRIANEX

Die volgende onkruid word beheer deur vooropkomstoedienings van **TRIANEX** teen die toedieningshoeveelhede soos hieronder aanbeveel:

ONKRUIDE BEHEER (WES- EN OOS-KAAP)		PERSENTASIE BEHEER
<i>Anagallis arvensis</i>	Pimpernel	90 - 100
<i>Arctotheca calendula</i>	Soetgousblom	90 - 100
<i>Fumaria muralis</i>	Duiwekerwel	90 - 100



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ONKRUIDE BEHEER (WES- EN OOS-KAAP)		PERSENTASIE BEHEER
<i>Plantago lanceolata</i>	Smalweëblaar	90 - 100
Wisselvallige beheer:		
<i>Raphanus raphanistrum</i>	Ramenas	90 - 100

ONKRUIDE ONDERDRUK		PERSENTASIE BEHEER
<i>Emex australis</i>	Kaapse dubbeltjie	70 - 85
<i>Lolium multiflorum</i>	Italiaanse raaigras	70 - 90
<i>Oxalis</i> spp.	Suring	80 - 90
<ul style="list-style-type: none"><li>• Onkruid wat ontsnap na die aanvanklike vooropkomstoediening van <b>TRIANEX</b> bv. Ramenas moet na-opkoms met onkruidodders van ander chemiese groepe soos bromoksiniel of MCPA beheer word.</li><li>• Opvolgbespuitings mag nie met ander sulfonielureums gemaak word nie.</li><li>• Onkruidonderdrukking is 'n visuele vermindering in onkruid populasies en/of groeikrag wanneer dit met 'n onbehandelde area vergelyk word.</li></ul>		

### Na-opkoms beheer van onkruid deur **TRIANEX**

Die volgende onkruid word beheer deur na-opkomstoedienings van **TRIANEX** teen die toedieningshoeveelhede soos hieronder aanbeveel:

ONKRUIDE BEHEER (WES- EN OOS-KAAP)		PERSENTASIE BEHEER
<i>Chenopodium murale</i>	Muurhondebossie	90 - 100
<i>Malva parviflora</i>	Kiesieblaar	90 - 100
<i>Pentzia</i> spp.	Stinkkruid	90 - 100
<i>Raphanus raphanistrum</i>	Ramenas	90 - 100
<i>Sisymbrium capense</i>	Strandwildemosterd	90 - 100
<i>Stellaria media</i>	Gewone sterremuur	90 - 100
<i>Silene gallica</i>	Kruitbossie	90 - 100

ONKRUIDE ONDERDRUK		PERSENTASIE BEHEER
<i>Fumaria muralis</i>	Duiwekerwel	70 - 90
<i>Oxalis pes-caprae</i>	Geelsuring	60 - 80
<i>Spergula arvensis</i>	Sporrie	70 - 90
<i>Vicia spp.</i>	Wilde ertjie	70 - 90
Onkruidonderdrukking is 'n visuele vermindering in onkruidpopulasies en/of groeikrag wanneer dit met 'n onbehandelde area vergelyk word.		

Waar Kaapse dubbeltjie (*Emex australis*) en/of soetgousblom (*Arctotheca calendula*) in die Wes- en Oos-Kaap voorkom of wilde bokwiet (*Bilderdykia convolvulus*) in die Oos-Vrystaat, kan 'n tenkmengsel van **TRIANEX** en CAMPATOP 225 EC (L5320) saam met na-opkomstoedienings gebruik word. 'n Tenkmengsel van **TRIANEX** en BRUSH-OFF kan ook gebruik word vir die beheer van na-opkoms *E. australis* in die Wes- en Oos-Kaap. Wanneer *Chenopodium album* in die Oos-Vrystaat voorkom, kan 'n tenkmengsel van **TRIANEX** en MCPA na-opkoms gebruik word.

## GEBRUIKSAANWYSINGS

Gebruik slegs soos aangedui.

## ALGEMENE INLIGTING

**TRIANEX** is 'n waterdispergeerbare korreloonkruidodder vir die selektiewe vooropkomsbeheer en onderdrukking van verskeie onkruid in koring en die na-opkom beheer van breëblaaronkruid in koring, gars en hawer in die Wes- en Oos-Kaap en koring in die Oos-Vrystaat.

## VOOROPKOMSTOEDIENING

- **TRIANEX** moet met plant of kort daarna op 'n klam, fyn, egalige, ferm en vars voorbereide saadbed, vry van oormatige kluite, klippe en strooi toegedien word. Om goeie resultate te verkry, is dit noodsaaklik dat die onkruidodertoediening kort daarna deur reën opgevolg word.
- **TRIANEX** sal die beste resultate lewer op gronde waar alle bewerkings en/of die plant- of saaiproses klaar uitgevoer is.
- Die inwerking van **TRIANEX** in die grond sal lei tot sub-optimale beheer van onkruid. Indien **TRIANEX** egter ingewerk word, moet opgelet word na die volgende:
  - Inwerking moet op droë grond geskied.
  - Inwerking kan net op sanderige grond gedoen word.
  - Inwerking moet vlak (< 2,5 cm diep) gedoen word.
  - Die grond moet vry van klippe, kluite en organiese materiaal soos strooi wees.



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- Indien **TRIANEX** met 'n kousbalk vooropkoms gespuit word, moet die wind van die kousbalk toegedraai word.

## NA-OPKOMSTOEDIENING

- Vir die beste na-opkomsresultate moet **TRIANEX** toegedien word wanneer die onkruid jonk (saailingstadium tot 5 cm hoog) en aktiefgroeiend onder vogtige toestande is. Onkruid wat onder droogtestremming verkeer, mag minder gevoelig wees. **TRIANEX** sal residuele beheer uitoefen op onkruid wat na die spuittoediening ontkiem indien genoegsame reën voorkom om dit na die wortelsone van ontkiemende saailinge te loog.
- Om die benattings- en kontakaktiwiteit van **TRIANEX** met na-opkomstoedienings te verbeter, moet benattingsmiddels gebruik word soos in TOEDIENINGSHOEVEELHEDE aanbeveel word.
- Die groei van gevoelige onkruid word vinnig deur **TRIANEX** geïnhibeer alhoewel die terugsterfsimptome nie waarneembaar mag wees voor 1 tot 3 weke na toediening nie, afhange van die groeitoestande en onkruidgevoeligheid.
- Die afbreking van **TRIANEX** in die grond neem af soos die pH toeneem (alkalies) en die grondvog verminder. Om aan die minimum wagperiodes vir opvolggewasse te voldoen, soos gespesifiseer, moet **TRIANEX** nie op gronde met 'n pH (H<sub>2</sub>O) van 7 of meer toegedien word nie.

## VERENIGBAARHEID

- Die verenigbaarheid van **TRIANEX** met ander produkte kan beïnvloed word deur die formulering van die betrokke produkte asook deur die kwaliteit van die water. Aangesien die formulering van produkte kan verander sonder die medewete van ADAMA Suid-Afrika (Pty.) Ltd. en die kwaliteit van die water ook van plaas tot plaas kan varieer, moet 'n fisiese verenigbaarheidstoets altyd uitgevoer word voordat gespuit word.
- **TRIANEX** is verenigbaar met BRUSH-OFF (L4535), BOXER (L8222), DRAGON (L10766), CAMPATOP® 225 EC (L5320) and MCPA (L1404) soos op hierdie etiket aanbeveel. **TRIANEX** mag slegs met een van bogenoemde produkte op 'n slag gemeng word.
- **TRIANEX** is ook verenigbaar met BREAK-THRU (L5895) en COMPLEMENT SUPER (L8169).
- **Moenie** onkruidodders, insekdoders of swamdoders of enige ander chemikalieë wat nie op hierdie etiket aanbeveel word met **TRIANEX** meng nie.

## MENGINSTRUKSIES

**TRIANEX** is 'n waterdispergeerbare korrelformulasie wat maklik met water meng indien die volgende menginstruksies nagekom word:

- Vul die spuittenk kwart tot halfvol met water. Begin die roering. Voeg die benodigde hoeveelheid benattingsmiddel by. Voeg die verlangde hoeveelheid **TRIANEX** wateroplosbare sakkies direk in die spuittenk sonder om dit eers vooraf te verroom. Hou aan met roer terwyl die tenk vol water gemaak en gespuit word.
- Gebruik **TRIANEX** spuitmengsel binne 24 uur aangesien die effektiwiteit mag verminder vanweë produk degradering. Roer deeglik voor hergebruik.



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- Wanneer **TRIANEX** met ander onkruidodders, insekdodders en swamdodders in 'n tenkmengsel gebruik word, moet die **TRIANEX** eers goed gemeng en in suspensie gebring word voordat die ander middels bygevoeg word.

## TOEDIENINGSTEGNIEKE

### Grondtoediening

- **TRIANEX**, **TRIANEX** plus BRUSH-OFF, **TRIANEX** plus CAMPATOP 225 EC en **TRIANEX** plus MCPA kan toegedien word met enige medium- of hoëvolume spuittoerusting wat met 'n doeltreffende roermeganisme toegerus is en wat goeie bedekking en eweredige verspreiding verseker. Die beste resultate word verkry deur van platwaaierspuitpunte gebruik te maak en 'n minimum spuitvolume van 200 ℓ water/ha toe te dien.
- Om 'n rugsakspuit te kalibreer: Merk 'n verteenwoordigende area van 10 m x 10 m (100 m<sup>2</sup>) uit op die grond waar gespuit moet word. Vul die rugsakspuit met skoon water tot by 'n kalibrasie merk op die houer soos tot by die 20 liter merk. Spuit die afgemerkte area eweredig. Bereken die volume water wat uitgespuit is.
- Die dosis soos op die etiket bv. 0.375 g/100 m<sup>2</sup> moet dan gevoeg word by die volume water wat uitgespuit is per 100 m<sup>2</sup>.

### Lugtoediening (Wes- en Oos-Kaap)

Lugtoediening van **TRIANEX** en **TRIANEX** plus BRUSH-OFF mag slegs deur 'n geregistreerde lugbespuitingsoperateur met 'n korrek gekalibreerde, geregistreerde vliegtuig volgens die instruksies van SANS 10118 (Aerial application of Agricultural Remedies). 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 kriteria te voldoen:

#### a) Toediening parameters:

- **Volume:** 'n Volume van 30 L/ha word vir vooropkoms bespuitings aanbeveel en 35 ℓ/ha word vir na-opkoms bespuitings 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 effekte indien hierdie produk teen 'n laer volume, as hierbo aanbeveel, uit die lug toegedien word nie.
- **Druppelbedekking:** 'n Druppelbedekking van 20 - 30 druppels/cm<sup>2</sup> moet op die teikenarea herwin word vir vooropkoms bespuitings en 30 - 45 druppels/cm<sup>2</sup> vir na-opkoms bespuitings.
- **Druppelgrootte:** 'n Druppelspektrum met 'n VMD van 350 - 400 mikrons word vir vooropkoms bespuitings aanbeveel en 300 - 350 mikrons vir na-opkoms bespuitings. Verseker dat die produksie van fyn druppels (kleiner as 150 mikrons – hoë drywing en verdampingspotensiaal) tot 'n minimum beperk word.
- **Vlieghoogte:** Die hoogte van die spuitbalk moet op 3 - 4 meter bo die teiken gehandhaaf word. Moet nie spuit wanneer die vliegtuig aan die bopunt is van, of tydens 'n duik nie, of terwyl dit uitklim of draai nie.

**b) Toerusting:**

- Gebruik geskikte spuitapparaat (hidroliese of roterende spuitkoppe) wat die vereiste druppelgrootte en bedekking sal produseer, maar wat die minste verlies van produk deur endodrywing (binne die teikenarea) of eksodrywing (buite die teikenarea) sal verseker.
- Die operateur moet 'n stelsel kies wat 'n druppelspektrum met die kleinste moontlike relatiewe span sal produseer.
- Al die spuitneuse/atomiseerders moet in die binneste 60% - 75% van die vlerkspan geplaas word om die beweging van druppels in die vlerkvorteks in te beperk.

**c) Meteorologiese toestande:**

- Die verskil in temperatuur tussen die nat- en droëboltermometer van 'n swaaihygrometer, moet nie 8°C oorskry nie. Die byvoeging van 'n geskikte anti-evaporant word aanbeveel indien die VMD van die druppels kleiner as 200 - 250 mikrons is.
- Stop bespuiting indien die windspoed 15 km/uur oorskry.
- Hierdie produk moet nie uit die lug toegedien word tydens onstabiele, turbulente toestande gedurende die hitte van die dag wanneer styg en dalende konveksie windbeweging plaasvind nie.
- Dit is belangrik om daarop te let dat die lugtoediening van hierdie produk onder temperatuur inversie toestande (deur bo of binne die inversie laag te spuit) tot die volgende probleme mag aanleiding gee.
  - Verlaagde effektiwiteit aangesien die druppels as 'n wolk in die lug bly hang en moontlik verdamp (onvoldoende bedekking op teiken), of
  - Skade aan ander nie-teiken gewasse of ander sensitiewe areas a.g.v. die wegdryf van die spuitwolk tot by daardie area.
- **TRIANEX** en **TRIANEX** plus BRUSH-OFF kan deur middel van lugbespuiting toegedien word mits die spuitstof egalig oor die teikengebied versprei word en die verlies aan spuitmiddel tydens toediening tot 'n minimum beperk word.

**Dit is noodsaaklik om 'n versekering van die spuitoperateur te verkry dat aan bogenoemde vereistes voldoen sal word.**

## **TOEDIENINGSHOEVEELHEDE**

### **Algemene onkruid in voorsaai omstandighede.**

Indien onkruid reeds ontkiem het tydens planttyd kan **TRIANEX** en **BOXER + TRIANEX** of **DRAGON + TRIANEX** in tenkmengsels met **TOUCHDOWN FORTE**, **GRAMOXONE**, **ADAMA PARAQUAT** of **PREEGLONE** gebruik word om onkruid te beheer.

Vir die toediening van **TOUCHDOWN FORTE** of **GRAMOXONE**, **ADAMA PARAQUAT** of **PREEGLONE** verwys na die relevante geregistreerde etikette. Alle waarskuwings, voorsorgmaatreëls en aanbevelings van hierdie produkte moet nagekom word.



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**Vooropkoms toedienings: Algemene onkruid beheer**

**TABEL 1: Toedieningshoeveelhede van TRIANEX vir vooropkomsbespuitings:**

TRIANEX kan ernstige skade op gars veroorsaak. Dra sorg om nie oordosisse toe te dien a.g.v. berekeningsfoute of dubbel bespuitings bv. oorvleueling.

GEWAS	TRIANEX
	GRONDTOEDIENING
Koring Gars	37.5 g/ha
Rugsakspuite: Koring en Gars - 0.375 g TRIANEX/100m <sup>2</sup>	

**Vooropkoms toedienings: Algemene onkruid beheer plus *Lolium multiflorum* beheer:**

TRIANEX kan ernstige skade op gars veroorsaak. Dra sorg om nie oordosisse van TRIANEX + BOXER of TRIANEX + DRAGON toe te dien a.g.v berekenings foute of dubbel bespuitings nie bv. oorvleueling.

**TABEL 2: Vooropkoms toediening van BOXER + TRIANEX of DRAGON in koring en gars:**

GEWAS	BOXER of DRAGON	TRIANEX	ONKRUIDE	
			BOTANIESE NAME	GEWONE NAME
Koring Gars	3 L/ha	30 – 37.5 g/ha	<i>Anagallis arvensis</i>	Pimpernel
			<i>Arctotheca spp</i>	Soetgousblom
			<i>Chenopodium muralis</i>	Muurhondebossie
			<i>Coronopus didymus</i>	Peperkruid
			<i>Cotula australis</i>	Cotula
			<i>Emex australis (65-90%)</i>	Kaapse dubbeltjie
			<i>Erodium moschatum</i>	Turknael
			<i>Fumaria muralis</i>	Duiwekerwel
			<i>Galium spp</i>	Gallium
			<i>Lolium multiflorum</i>	Italiaanse raaigras





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GEWAS	BOXER of DRAGON	TRIANEX	ONKRUIDE	
			BOTANIESE NAME	GEWONE NAME
			<i>Medicago polymorpha</i>	Klitsklawer
			<i>Phalaris canariensis</i>	Kanarie saadgras
			<i>Polygonum aviculare</i>	Voëlduisendknoop
			<i>Raphanus raphanistrum</i>	Ramenas
			<i>Silene spp</i>	Kruitbossie
			<i>Vulpia myuros</i>	Langbaardswenkgras

**Ontwikkelingsboere en Rugsakspuite:**  
**Koring en Gars - 30ml BOXER of DRAGON + 0.30 – 0.375 g TRIANEX/100m<sup>2</sup>**

- Daar moet verseker word dat die koring saad ten volle bedek word na plant met 2 - 3 cm grond voordat enige **BOXER of DRAGON + TRIANEX** bespuitings gedoen word.
- Volg die aanwysings op die **BOXER of DRAGON** etikette noukeurig na.

#### Na-opkoms toedienings: Algemene onkruidbeheer

**TABEL 3: Toedieningshoeveelhede van TRIANEX plus BRUSH-OFF of CAMPATOP 225 EC of MCPA vir na-opkombespuitings:**

GEWAS	TRIANEX/HA	
	GRONDOEDIENING	LUGTOEDIENING
<b>Koring, Hawer, Gars</b> (Wes- en Oos- Kaap)	13 g	13 - 15 g
Gebruik 13 g/ha vir lugtoediening as <i>R. raphanistrum</i> nie die 4 - blaarstadium oorskry nie. Toediening moet plaasvind tussen die 2 - 6 blaarstadium van koring, gars en hawer.		
<b>Koring, Hawer, Gars</b> (Wes- en Oos-Kaap)	13 g <b>plus</b> 0.6 – 0.75 L/ha CAMPATOP 225 EC	<b>NIE AANBEVEEL NIE</b>
<b>Koring</b> (Oos-Vrystaat)		

'n Tenkmengsel van 13 g **TRIANEX** en 0.6 L/ha CAMPATOP 225 EC kan gebruik word in die



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GEWAS	TRIANEX/HA	
	GRONDOEDIENING	LUGTOEDIENING
Wes- en Oos- Kaap as <i>E. australis</i> in die saadlob tot 3-blaarstadium is. Gebruik die hoër toedieningsdosis van CAMPATOP 225 EC (0.75 L/ha) in die Wes- en Oos-Kaap en die Oos-Vrystaat as <i>E. australis</i> groter as die 3-blaarstadium is.		
<b>Koring, Gars</b> (Wes- en Oos-Kaap)	13 g <b>plus</b> 3 g BRUSH-OFF	15 g <b>plus</b> 3 g BRUSH-OFF
Wanneer <i>E. australis</i> voorkom, gebruik <b>TRIANEX</b> in 'n tenkmengsel met BRUSH-OFF. Om die weerstandsrisiko van die sulfoniel-urea groep onkruidododers te verminder, kan <b>TRIANEX</b> elke derde jaar met 'n mengsel van <b>TRIANEX</b> plus MCPA vervang word, vir die beheer van <i>R. raphanistrum</i> .		
<b>Koring</b> (Oos Vrystaat)	15 g <b>plus</b> 2 - 4 L/ha MCPA	<b>NIE AANBEVEEL NIE</b>
Gebruik <b>TRIANEX</b> plus MCPA vir die beheer van <i>C. album</i> in die Oos-Vrystaat. Dien toe tussen groeistadium 7 (middel dubbelriwwe vergroot) en 13 (glumas van boonste aartjies verleng) volgens die groeistadium lys van die LNR Kleingraaninstituut, Bethlehem.		

### Algemene Opmerkings

- Die na-opkomstoedienings van **TRIANEX** moet altyd in tenkmengsels met een van die volgende bymiddels gespuit word:
  - **COMPLEMENT SUPER** 100 ml/ha
  - **BREAKTHRU** 50 ml/100 L spuitmengsel
- Gebruik **COMPLEMENT SUPER** vir na-opkomsbespuitings van **TRIANEX** plus CAMPATOP 225 EC asook **TRIANEX** plus BRUSH-OFF behandelings.
- Om maksimum onderdrukking en beheer van onkruid te verkry, moet **TRIANEX**, **TRIANEX** plus BRUSH-OFF of **TRIANEX** plus CAMPATOP 225 EC aan jong onkruid toegeleen word, verkieslik binne 4 weke na opkoms van die gewas.
- Graad van beheer en die duur van dië effek hang af van die onkruidspesie, onkruidgrootte, groeitoestand gedurende en na die toediening, grond pH, reënval en die organiese materiaal inhoud van die grond.
- Dien **TRIANEX** plus CAMPATOP 225 EC en **TRIANEX** plus MCPA toe in die Oos-Vrystaat vanaf begin September na goeie lentereëns mits die gemiddelde temperatuur vir drie agtereenvolgende dae 10 ° C oorskry het.



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## SKOONMAAK VAN SPUIT

- Om skade aan opvolggewasse anders as gars, koring en hawer te voorkom, moet alle spore van **TRIANEX** dadelik na toediening deeglik uit die meng- en spuittoerusting verwyder word deur as volg te werk te gaan:
  - Dreineer die sisteem geheel en al. Spoel die tenk deeglik met skoon water terwyl geroer word en spuit die spoelwater uit deur die spuitpunte. Dreineer die sisteem weer.
  - Hervul die spuitenk tot ongeveer 15 - 20 % van die tenk se kapasiteit met skoon water en spoel binne-oppervlak van die tenk deeglik.
  - Voeg daarby 1 ℓ natriumhipochloried (5.2 %) per 200 L water terwyl geroer word. Spuit die spoelwater deur spuitpunte vir ongeveer 1 minuut. Laat die oorblywende spoelwater in die spuitsisteem sirkuleer vir 'n minimum van 5 - 10 minute.
  - Om alle spore van die bleikmiddel te verwyder, spoel die tenk deeglik uit met skoon water, spoel binne-oppervlak van die tenk en spuit die oorblywende spoelwater uit deur die spuitpunte. Dreineer die sisteem.

**BOXER**<sup>®</sup> = Geregistreerde Handelsmerk van 'n Syngenta Groep Maatskappy.

**COMPLEMENT**<sup>™</sup> = Voorgestelde Handelsnaam van 'n Syngenta Groep Maatskappy.

**BRUSH-OFF**<sup>®</sup> = Geregistreerde Handelsmerke van E.I. Du Pont de Nemours and Co.,  
Wilmington, Delaware.

**CAMPATOP**<sup>®</sup> = Geregistreerde Handelsmerk van Villa Crop Protection.

**BREAKTHRU** = Geregistreerde Handelsmerk van Goldschmidt Chemical Corporation.

**DRAGON (L10766)** en **ADAMA PARAQUAT (L10792)** is die geregistreerde produkte van ADAMA Suid-Afrika.