

# TARZEC® 320 WG



## HERBICIDE

Registration number/Registrasie Nommer L10760 Act/Wet Nr. / No. 36 of / van 1947

**READ THE LABEL BEFORE USE  
KEEP OUT OF REACH OF CHILDREN AND ANIMALS**

<b>GROUP</b>	<b>B &amp; O</b>	<b>HERBICIDES</b>
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water dispersible granule herbicide for selective, early post-emergence control of broadleaf weeds and some annual grasses in wheat in the Western Cape and irrigated areas in the summer rainfall region.

'n Waterdispergeerbare korrel onkruiddoder vir selektiewe, vroeg na-opkoms beheer van breëblaaronkruid en sommige eenjarige grasse in koring in die Wes-Kaap en besproeiingsareas in die somerreënvalgebied.



### WARNING

#### HAZARD STATEMENTS:

May be harmful if swallowed.  
Causes serious eye irritation.  
Very toxic to aquatic life with long lasting effects.

#### PRECAUTIONARY STATEMENTS:

Wash skin thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/ attention.  
Collect spillage.  
Dispose of contents/container in accordance with applicable regulations.

#### ACTIVE INGREDIENTS/AKTIEWE BESTANDDELE

ARYLEX® (Halauxifen-methyl) ..... 70 g/kg ..... ARYLEX® (Halauxifen-metiel)  
(pyridine Compound) ..... (piridienverbinding)  
Pyroxsulam (Triazolopyrimidine) .....250 g/kg .....Pyroxsulam (Triasolopirimidien)

**NET MASS ..... g ..... NETTO MASSA**

#### REGISTRATION HOLDER / REGISTRASIEHOUER:

CORTEVA AGRISCIENCE RSA (PTY) LTD / (EDMS) BPK  
REG NO 1991/003030/07  
Lakefield Office Park, Block A, 2<sup>nd</sup> Floor  
272 West Avenue, CENTURION, 0157 South Africa  
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Batch Number .....  ..... Lotnommer  
Date of Manufacture .....  ..... Vervaardigingsdatum  
Expiry date .....  ..... Vervaldatum

**UN NO : 3077**

Poisons Helpline: +27(0)861-555-777  
Local Emergency No: +27(0)82-895-0621 (SA only)  
24 Hour Emergency Tel No: +32-3-575-5555  
Information Hotline Tel No: +27(0)12 683-5700

Tarzec® 320 WG/2023-05-08

## **WARNINGS:**

### **HAZARD STATEMENTS:**

May be harmful if swallowed.  
Causes serious eye irritation.  
Very toxic to aquatic life with long lasting effects.

**Wheat – Allow 42 days between application and grazing by livestock.**

Handle with care.  
May cause severe eye irritation.  
May cause skin irritation.  
Store in a cool, dry place and in original container.  
Store away from food, feed, drugs, drinking water, seed, and other agricultural chemicals.  
Store out of reach of children, uninformed persons, and animals.  
Very toxic to fish and other aquatic organisms.

**RE-ENTRY:** Do not enter treated area until spray deposit has dried unless wearing protective clothing.

### **DISCLAIMER:**

***Although this remedy has been extensively tested under a large variety of conditions the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions; quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of weeds against the remedy concerned as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier or registration holder in the event of any uncertainty.***

## **PRECAUTIONS:**

### **PRECAUTIONARY STATEMENTS:**

Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Do NOT induce vomiting.  
IF ON SKIN: Wash with plenty of water.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE/doctor.  
Dispose of contents/container in accordance with applicable regulations.

Do not inhale dust or spray mist.  
Avoid eye and skin contact.  
Wear suitable protective clothing, gloves, eye, and face protection when handling the concentrate.  
Wash contaminated clothing after use.  
Wash with soap and water after use.  
Do not eat, drink, or smoke whilst mixing or applying the product or before washing hands and face.  
Avoid drift of spray mist onto other crops, grazing, rivers, dams, and areas not under treatment.  
Prevent contamination of food, feeds, drinking water and eating utensils.

**RELEVANT SUBSTANCES:**

<b>COMPONENT</b>	<b>CAS No.</b>	<b>Concentration (% w/w)</b>
Cloquintocet	88349-88-6	35,39
Pyroxsulam (ISO)	422556-08-9	25,51
Halauxifen-methyl	943831-98-9	6,95
Sodium lignosulfonate	8061-51-6	>= 10 - < 20
Citric acid	77-92-9	>= 3 - < 10
Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate	Not Assigned	>= 1 - < 3

**SYMPTOMS OF HUMAN OVER EXPOSURE:**

May cause severe eye irritation and corneal injury.

Prolonged contact may cause moderate skin irritation with local redness.

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

**FIRST AID MEASURES:**

Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

**Ingestion:**

Contact a physician. The decision of whether to induce vomiting or not should be made by a physician.

**Eye contact:**

Flush eyes thoroughly with water for 15–20 minutes. Remove contact lenses if present after initial 1–2 minutes and continue flushing for several additional minutes. Consult a physician, preferably an ophthalmologist.

**Skin Contact:**

Remove contaminated clothing. Immediately wash skin with soap and plenty of water for 15–20 minutes. Wash contaminated clothing before re-use.

**Inhalation:**

Immediately remove patient to fresh air. Consult a physician.

**NOTE TO PHYSICIAN:**

There is no specific antidote. Treatment based on judgment of physician in response to symptoms of patient.

## RESISTANCE PREVENTION AND MANAGEMENT

**TARZEC 320 WG** is a combination of a synthetic auxin-type herbicide (Group O) and an ALS (AcetoLactate Synthase) enzyme inhibiting herbicide (Group B). This product controls plants by disrupting normal growth patterns and/or by inhibiting production of the enzyme essential for production of certain amino acids needed for normal plant growth.

Since **TARZEC(R) 320 WG** has two different modes of action, resistance is less likely to develop than in the case of certain other herbicide groups. However, some naturally occurring weed biotypes resistant to **TARZEC® 320 WG** or other similar herbicides may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if herbicides with the same modes of action are used repeatedly. These resistant weeds will not be controlled by **TARZEC® 320 WG** or other similar herbicides.

### TO DELAY THE SELECTION OF RESISTANT WEEDS

- ❖ Integrate tillage, crop rotation or mechanical control methods (including non-selective herbicides) during the fallow period into weed control programs whenever practical.
- ❖ Avoid exclusive repeated use of herbicides from the same mode of action group. Plan crop rotations to allow use of herbicides from different mode of action groups.
- ❖ Maintain herbicide use records for each field.
- ❖ Prevent movement of resistant weed seeds and vegetative material to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- ❖ When grazing, begin with fields with the least weed resistance before moving to fields with high resistance due to the possibility of animals spreading the seed.
- ❖ Inspect all fields annually to identify the development of resistance early.

For further advice on the prevention of herbicide resistance contact your Corteva Agriscience™ representative.

In the case where the above-mentioned measures are not followed, Corteva Agriscience™ will not be liable for any damage which may occur if **TARZEC® 320 WG** does not control resistant weeds.

### USE RESTRICTIONS AND NOTES OF USE.

Not to be used as an aerial application.

Do not apply **TARZEC® 320 WG** to wheat undersown with legumes.

Do not apply **TARZEC® 320 WG** to crops that are stressed by severe weather conditions such as cold weather, heavy rain or the risk of freezing temperatures, drought, waterlogging, nutrient deficiency, disease, insect or nematode damage or carry-over herbicide residues.

Temporary crop injury may occur after application of **TARZEC® 320 WG** but this does not result in reduced yield.

Apply the product strictly in accordance with the application directions.

Do not contaminate any water bodies e.g., dams, rivers, boreholes, etc.

**TARZEC® 320 WG** should only be applied **ONCE** per season.

## MINIMUM RECROPPING INTERVAL AND CROP ROTATION GUIDELINES

The minimum recropping interval includes the time of last application of **TARZEC® 320 WG** to the anticipated date of replanting. The intervals specified below will only be valid if favourable soil moisture and temperature conditions prevail to promote more rapid breakdown of **TARZEC® 320 WG** through microbial activity. Abnormally dry and/or cold conditions may result in slower degradation.

Careful consideration should be given to crop rotation plans prior to using **TARZEC® 320 WG**.

To avoid injury to subsequent crops the following recropping intervals should be observed:

Following crops	Waiting periods
Barley, oats, wheat	1 month
Cotton, dry beans, groundnuts, potatoes, sorghum, soybeans	5 months
Canola, lupines, peas	9 months
Maize, sunflowers	14 months

For all other follow crops not listed, a replanting period of at least **24 months** must be observed preceded by a test planting. Test strips of the desired follow crop should be planted and monitored during germination and emergence for any abnormal growth to determine if the follow crop can be grown successfully. The land should always be deeply ploughed before a follow crop is planted.

## CROP FAILURE

In the event of crop failure – after a crop has been treated with **TARZEC® 320 WG**, it is possible to plant cereals one (1) month after the application. In this case soil must be ploughed before planting a succeeding crop.

## WEEDS NORMALLY CONTROLLED BY TARZEC® 320 WG:

### Broadleaf weeds

<i>Arctotheca calendula</i> ***	Cape weed
<i>Chenopodium album</i>	White goosefoot
<i>Emex australis</i>	Spiny Emex
<i>Polygonum aviculare</i>	Prostrate knotweed
<i>Raphanus raphanistrum</i> ***	Wild radish

\*\*\*Where ALS resistant weeds occur, variable control can be expected.

## Grasses

<i>Avena fatua</i>	Common wild oats
<i>Bromus diandrus</i> ***	Ripgut brome
<i>Bromus japonicas</i> ***	Japanese brome
<i>Phalaris minor</i> **	Little seeded canary grass

\*\* Variable control may be expected.

\*\*\* Where ALS resistant ***Bromus* spp.** occur, variable control can be expected.

## NOTES:

1. **TARZEC® 320 WG** controls certain weed species as listed above. Other annual grasses and broadleaf weed species that were not present during the development trials may also be controlled to a certain degree. The registration holder does not accept any responsibility for weeds not listed.
2. **TARZEC® 320 WG** spray applications alone or in tank mixtures will not control weeds which have not yet emerged at the time of spraying.

## DIRECTIONS FOR USE

**Use only as directed.**

## GENERAL INFORMATION

**TARZEC® 320 WG** is a water dispersible granular herbicide for selective early post-emergence control of broadleaf weeds and some annual grasses as listed above in the Western Cape and irrigated areas in the summer rainfall region.

**TARZEC® 320 WG** must be mixed with clean water and applied as a uniform broadcast spray by means of ground application.

**TARZEC® 320 WG** must be applied early post-emergence, to the main flush of actively growing weeds. Warm, moist growing conditions promote active weed growth and enhance the activity of **TARZEC® 320 WG** by allowing maximum foliar uptake and activity.

Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed and re-growth may occur. For the best results, ensure thorough spray coverage of target weeds. **TARZEC® 320 WG** should be applied prior to crop growth reaching a density which would inhibit effective coverage of the weeds.

**TARZEC® 320 WG** must be applied to young weeds at the seedling stage but before they are beyond the 4-leaf stage. Weeds should also be actively growing under moist conditions. Weeds under drought stress may be less susceptible.

**TARZEC® 320 WG** inhibits growth of susceptible weeds. Visible symptoms may occur within 2–4 weeks under ideal growing conditions and up to 6–8 weeks under adverse conditions (prolonged periods of extremes in temperature or moisture).

Under certain conditions **TARZEC® 320 WG** may cause some senescence and/or yellowing of lower/older leaves of the crop but will have no significant effect on the yield.

Optimum application temperature is between 8–25° C, but treatments can be done at temperatures as low as 5° C.

Weed control may take longer under colder conditions but final control is not affected. Avoid applying **TARZEC® 320 WG** at temperatures below 5 °C or when nighttime temperatures are below freezing.

On lands with high grass weed populations a suitable “burndown” herbicide treatment prior to planting is recommended to reduce the later in-crop weed pressure and competition. Use of short-growing wheat cultivars with good early vigour can also help to shade out grass weeds. The degree of efficacy of a **TARZEC® 320 WG** application may then increase with a less dense weed pressure.

## TRACE ELEMENTS

**TARZEC® 320 WG** is compatible when used separately with one of the trace elements manganese sulphate (MnSO<sub>4</sub>), zinc oxide (ZnO<sub>2</sub>) or copper oxychloride. Under no circumstances should multiple trace elements, or foliar feed formulations containing more than 2 trace elements, be tank mixed with **TARZEC® 320 WG**.

**ALWAYS REFER TO PRODUCT LABELS.**

### NOTES:

- (i) **WHERE ONE OF THE ABOVE PRODUCTS IS USED IN A TANK MIXTURE WITH TARZEC® 320 WG, FULL DETAILS FROM THE RELEVANT LABEL MUST BE OBTAINED AND ADHERED TO.**
- (ii) The compatibility of **TARZEC® 320 WG** in tank mixtures with recommended products may be influenced by the formulation of these products. The quality of the water may also have an effect on these tank mixtures. Since the formulation of other products may change without the knowledge of Corteva Agriscience RSA (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. Corteva Agriscience RSA (Pty) Ltd does not accept any responsibility for the crop tolerance of these tank mixtures where the formulation of products has changed or for mixtures with products not listed above.

DO NOT add any product to the mixture that will lower the spray solution pH below a value of 6.0.

Consult your local representative for details.

## MIXING INSTRUCTIONS

**TARZEC® 320 WG** is a water dispersible granule that is easily dissolved in water if the following mixing procedures are implemented:

- Fill the spray tank up to a quarter- to half-full of water.
- Start the agitation.
- **TARZEC® 320 WG** should always be pre-mixed with water to form a slurry. Add the required quantity of **TARZEC® 320 WG** to a bucket of water, stir immediately until the granules are dispersed and add the prepared **TARZEC® 320 WG** slurry directly to the spray tank.
- Rinse container used for pre-mixing and add rinse water to spray tank.
- Add then the required amount of recommended complementary herbicide needed.
- Continue agitation while topping up the spray tank with water until the final volume has been obtained.
- Thoroughly re-agitate before re-using if a stoppage of spraying operations should occur for some reason.

## GROUND APPLICATION

**TARZEC® 320 WG** on its own with recommended herbicides can be applied with any medium or high volume sprayer equipment 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 litres water per hectare.

CROP	RATE/HA	REMARKS
WHEAT	80 g <b>TARZEC® 320 WG</b>	Apply between 2 leaf stage until the 2 nodes stage of the crop when weeds are in the seedling stage and actively growing (2-4 leaf).

Ensure that information listed under “DIRECTIONS FOR USE” is adhered to.

Ensure thorough coverage of weeds to achieve effective control. Weeds screened off by a dense stand of the crop and/or other weeds causing insufficient spray coverage, may be poorly controlled. Consider this aspect when deciding on spray application timing. Weeds germinating after application of **TARZEC® 320 WG** will not be controlled as it has no strong soil residual activity.

Degree of control obtained, and duration of effect depend on weed species, weed size, growing conditions at, and following the period of application.

## SPRAYER CLEAN-UP

To prevent any damage to subsequent crops, other than wheat, all traces of **TARZEC® 320 WG** must be removed from the mixing and spraying equipment.

Proceed as follows:

- a) The spray tank should be drained immediately after spraying crop. Wash any contamination off the outside of the sprayer with clean water.
- b) The inside of the spray tank should be rinsed with clean water and flushed with at least one tenth of the spray tank volume through the hoses and nozzles. Drain the tank completely.
- c) Half-fill the tank with clean water and add the correct amount of cleaning agent, such as household ammonia. Per 100 litres of final tank volume, add 350 ml ammonia (9.5% ammonia) to the water e.g., in the case of a 1 000 litres spray tank, fill with 500 litres water and add 3.5 litres (= 10 x 0.35 L) ammonia.  
The initial solution now prepared, which is double strength, should be thoroughly mixed. This solution is used for flushing the hoses and nozzles for approximately 1 minute. The remainder is then filled up to the final volume of the spray tank and allowed to stand for 15 minutes with the agitation running. After 15 minutes have elapsed, flush the boom and hoses again and drain the tank completely.
- d) Remove the nozzles and filters and allow to soak in a bucket containing 40 ml of household ammonia per 10 litres of water.
- e) Rinse the tank again with water and flush at least one tenth of the tank volume through the boom and hoses.
- f) Dispose of the rinse water safely. Do not spray onto sensitive crops or land intended for planting with sensitive crops.



### Precautions with spray clean-up

- Do not inhale the vapour of the cleaning agents.
- Avoid contact with eyes and skin.
- In case of contact with eyes and skin immediately rinse with plenty of water and seek medical advice.
- Keep out of reach of children, uninformed persons, and animals.
- Keep cleaning agents only in original containers.

### **STORAGE AND DISPOSAL**

#### Storage conditions

Store away from sun and damp, in original tightly closed containers, in a well-ventilated area apart from food and feed under lock and key. Avoid storage above 35 °C.

#### Product and container disposal

Do not re-use empty containers for any other purpose, especially not for storing water, food, or feed. Perforate and flatten the containers before disposing of them in the prescribed manner.

Destroy empty containers or surplus product in an industrial incinerator approved for agricultural chemicals. Do not bury in or spray onto any area under agricultural use. Empty containers should be rinsed thoroughly with clean water and pour rinse solution in the spray tank.

**Local Emergency No: +27(0)82-895-0621 (SA only)**  
**24 Hour Emergency Tel No: +32-3-575-5555**  
**Information Hotline Tel No: +27(0)12 683-5700**

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## WAARSKUWINGS

### **RISIKOVERKLARINGS:**

Kan skadelik wees indien ingesluk.  
Veroorsaak ernstige oogirritasie.  
Baie giftig vir waterlewe met langdurige effekte.

### **Koring – Laat 42 dae verloop tussen toediening en beweiding deur vee.**

Hanteer versigtig.

Mag erge oogirritasie veroorsaak.

Mag velirritasie veroorsaak.

Berg in 'n koel, droë plek en in oorspronklike houer.

Berg weg van voedsel, voer, medisyne, drinkwater, saad en enige ander landbouchemikalieë.

Hou buite bereik van kinders, oningeligte persone en diere.

Baie giftig vir visse en ander akwatiese organismes.

**HERBETREDING:** Moet nie behandelde gebied betree alvorens die spuitneerslag droog is nie, tensy beskermende oorklere gedra word.

## VRYWARING

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

## VOORSORGMAATREËLS

### **VOORSORG VERKLARINGS:**

Vermy hoë temperature, warm oppervlaktes, vonke, oop vlamme en ander ontstekingsbronne.

Moenie in die nabye omgewing rook ne.

Dra beskermende handskoene/beskermende klere/oogbeskerming/gesigbeskerming.

**INDIEN INGESLUK:** Ontbied onmiddellik 'n GIFSENTRUM of dokter/geneesheer. **MOENIE** braking veroorsaak nie.

**INDIEN OP DIE VEL:** Was met baie water.

**INDIEN IN OË:** Spoel versigtig uit met water vir 'n paar minute. Verwyder kontaklense, indien teenwoordig en maklik om te doen. Gaan voort met spoel. Ontbied onmiddellik 'n GIFSENTRUM/dokter.

Gooi inhoud/houer weg in ooreenstemming met toepaslike regulasies.

Moet nie stof of spuitnewel inasem nie.

Vermý kontak met oë en vel.

Dra geskikte beskermingsklere, handskoene, oog- en gesigbeskerming wanneer die konsentraat hanteer word.

Was besoedelde klere na gebruik.

Was met seep en water na gebruik.

Moet nie eet, drink of rook tydens vermenging of toediening van die produk of voordat hande en gesig gewas is nie.

Vermý spuitnewelwegdrywing na ander gewasse, weiveld, riviere, damme en areas nie onder behandeling nie.

Voorkom die besoedeling van voedsel, voer, drinkwater en eetgerei.

### **RELEVANTE STOWWE:**

<b>KOMPONENT</b>	<b>CAS No.</b>	<b>Konsentraat (% w/w)</b>
Cloquintocet	88349-88-6	35,39
Pyroxsulam (ISO)	422556-08-9	25,51
Halauxifen-metiel	943831-98-9	6,95
Natrium lignosulfonaat	8061-51-6	>= 10 - < 20
Sitroensuur	77-92-9	>= 3 - < 10
Vetsuurchloriede, C18 onversadigde, reaksieprodukte met natrium N-metieltaurinaat	Nie toegeken nie	>= 1 - < 3

### **SIMPTOME VAN MENSLIKE BLOOTSTELLING**

Mag ernstige oogirritasie en horingvliesskade tot gevolg hê.

Langdurige velkontak mag matige irritasie met plaaslike rooiheid veroorsaak.

Dit is onwaarskynlik dat langdurige velkontak absorpsie van skadelike hoeveelheid tot gevolg sal hê.

### **NOODHULPBEHANDELING:**

Moet nooit vloeistowwe per mond toedien of braking aanmoedig indien die pasiënt bewusteloos of stuiptrekkings het nie.

#### **Inname:**

Kontak 'n geneesheer. Die besluit om braking aan te moedig of nie, moet deur 'n geneesheer geneem word.

#### **Oogkontak:**

Spoel oë deeglik met water vir 15–20 minute.

Verwyder kontaklense, indien teenwoordig, spoel oë ononderbroke vir 1 – 2 minute, daarna spoel sporadies vir nog etlike minute.

Raadpleeg 'n geneesheer, verkieslik 'n oogarts.

#### **Velkontak:**

Verwyder gekontamineerde klere. Spoel vel onmiddelik met seep en genoegsame water vir 15-20 minute. Was gekontamineerde klere voor hergebruik.

**Inaseming:**

Verskuif die pasiënt na 'n plek waar daar voldoende vars lug is.  
Raadpleeg 'n geneesheer.

**NOTA AAN GENEESHEER:**

Daar is geen spesifieke teenmiddel nie. Die geneesheer sal sy behandeling toepas volgens die simptome van die pasiënt.

**WEERSTANDSVOORKOMING EN -BESTUUR**

**TARZEC® 320 WG** is 'n kombinasie van 'n sintetiese ouksien-tipe onkruidodder (Groep O) en 'n ALS (**AcetoLactate Synthase**) ensiem-inhiberende onkruidodder (Groep B). Hierdie produk beheer breëblaarplante deur die steuring van normale groeipatrone en/of deur inhibisie van die vervaardiging van die ensiem wat noodsaaklik is vir die produksie van sekere aminosure wat nodig is vir normale plantegroei.

Aangesien **TARZEC® 320 WG** twee tipes metodes van werking het, sal weerstand heel moontlik vertraag word in vergelyking met ander onkruidoddergroepe, maar weens natuurlike genetiese variasie in enige onkruidpopulasie, mag sommige onkruidbiotipes wat in die natuur voorkom, weerstandbiedendheid toon teen **TARZEC® 320 WG** of ander soortgelyke onkruidodders. Indien onkruidodders met dieselfde werkingswyse herhaaldelik gebruik word, kan hierdie weerstandbiedende individue uiteindelik die onkruidpopulasie domineer. Hierdie weerstandbiedende onkruid sal nie deur **TARZEC® 320 WG** of ander soortgelyke onkruidodders beheer word nie.

**BESTUURSAKSIES OM SELEKSIE VAN WEERSTANDBIEDENDE ONKRUIDE TE VERMINDER**

- ❖ Implementeer bewerkingspraktyke, wisselboustelsels of ander meganiese beheer-stelsels (insluitende die gebruik van nie-selektiewe onkruidodders) waar prakties moontlik.
- ❖ Vermyn die herhaalde gebruik van onkruidodders met dieselfde metode van werking. Beplan gewasrotasie sodat onkruidodders met verskillende metodes van werking gebruik word.
- ❖ Hou rekord van onkruidoddergebruik van elke land.
- ❖ Voorkom die verspreiding van weerstandbiedende saad asook vegetatiewe materiaal na ander lande deur gereelde skoonmaak van stropers en ploë en plant van onkruidvrye saad.
- ❖ Met beweiding, begin by lande met die minste onkruidweerstand voor beweging na lande met hoë weerstand om verspreiding van saad deur diere te verhoed.
- ❖ Ondersoek alle lande jaarliks om moontlike weerstand vroegtydig uit te ken.

Kontak u Corteva Agriscience™ verteenwoordiger vir verdere advies rakende die voorkoming van onkruidodder weerstandbiedendheid.

Indien bostaande maatreëls nie nougeset nagekom word nie, kan Corteva Agriscience™ geen aanspreeklikheid aanvaar ten opsigte van enige verlies wat mag ontstaan indien **TARZEC® 320 WG** nie weerstandbiedende onkruid beheer nie.

## GEBRUIKSBEPERKINGS EN NOTAS VAN GEBRUIK.

Moet nie gebruik as 'n lugbespuiting nie.

Moet nie **TARZEC® 320 WG** toedien op koring ondersaai met peulgewasse nie.

Moet nie **TARZEC® 320 WG** toedien op gewasse wat onder stremming verkeer a.g.v. strawwe weerstoestande soos koue of ysige temperature of swaar reëns, droogte, versuiping, nutriënt tekort, siekte, insek- of aalwurmskade of onkruidoderoordraging nie.

Tydlike gewasskade mag na toediening van **TARZEC® 320 WG** voorkom, maar sal nie tot oesverlaging lei nie.

Dien die produk streng volgens die gebruiksaanwysings toe.

Moet nie enige waterbronne besoedel nie bv. damme, riviere, boorgate, ens.

**TARZEC® 320 WG** mag slegs **EEN** maal per seisoen toegedien word.

## MINIMUM WAGPERIODES EN WISSELBOU-AANWYSINGS

Die minimum wagperiode dui op die tydsverloop vanaf die laaste toediening van **TARZEC® 320 WG** tot die verwagte tyd van aanplanting van 'n opvolggewas. Die periodes hieronder gespesifiseer, sal slegs geldig wees indien gunstige grondvog- en temperatuurtoestande, wat spoedige afbraak van **TARZEC® 320 WG** deur mikrobiëse aktiwiteit bevorder, sou heers. Abnormale droë en/of koue toestande mag vertraagde afbraak teweegbring.

Deeglike oorweging moet gegee word aan wisselboubeplanning alvorens **TARZEC® 320 WG** gebruik word.

Om skade aan opvolggewasse te voorkom, moet die volgende wagperiodes in ag geneem word:

Opvolggewasse	Wagperiodes
Koring, gars, hawer	1 maand
Aartappels, droë bone, grondbone, katoen, sojabone, sorghum	5 maande
Erte, kanola, lupiene	9 maande
Mielies, sonneblomme	14 maande

Vir alle ander gewasse nie gelys nie, word 'n wagperiode van ten minste **24 maande** aanbeveel, voorafgegaan deur 'n toetsplanting. Toetsstrokke van die verlangde opvolggewas moet aangeplant word en tydens ontkieming en opkoms gemoniteer word vir enige abnormale groei om te bepaal of die opvolggewas suksesvol verbou kan word. Die land moet altyd eers diep geploeg word voordat opvolggewasse geplant word.

## GEWAS MISOES

In die geval van gewas misoes – nadat die gewas behandel is met **TARZEC® 320 WG**, is dit moontlik om kleingraangewasse te plant een (1) maand na toediening. In die geval moet die grond eers geploeg word voordat die opvolggewas geplant word.

## ONKRUIDE WAT NORMAALWEG DEUR TARZEC® 320 WG BEHEER WORD:

### Breëblaaronkruid

<i>Arctotheca calendula</i> ***	Gousblom
<i>Chenopodium album</i>	Withondebossie
<i>Emex australis</i>	Kaapse dubbeltjie
<i>Polygonum aviculare</i>	Koperdraadgras
<i>Raphanus raphanistrum</i> ***	Ramenas

\*\*\* Waar ALS bestande onkruid voorkom, kan wisselvallige beheer verwag word.

### Grasse

<i>Avena fatua</i>	Gewone wilde hawer
<i>Bromus diandrus</i> ***	Predikantsluis
<i>Bromus japonicas</i> ***	hooigras
<i>Phalaris minor</i> **	kleinsaadkanariegras

\*\* Wisselvallige beheer kan verwag word.

\*\*\* Waar ALS bestande **Bromus spp.** voorkom, kan wisselvallige beheer verwag word.

## GEBRUIKSAANWYSINGS

## Gebruik slegs soos aangedui

### ALGEMENE INLIGTING

**TARZEC® 320 WG** is 'n waterdispergeerbare korrel vir die selektiewe, vroeg na-opkoms beheer van breëblaaronkruid en sommige eenjarige grasse in die Weskaap en besproeiings-areas in die somer reënval gebied.

**TARZEC® 320 WG** moet met skoon water gemeng word en as 'n eenvormige, breedwerpige grondbespuiting toegedien word.

**TARZEC® 320 WG** moet as 'n vroeg, na-opkomsbehandeling toegedien word op jong en aktiefgroeiende onkruid. Warm, vogtige klimaattoestande bevorder die groei van onkruid wat dan die blaaropname en effektiwiteit van **TARZEC® 320 WG** bevorder.

Onkruid wat gehard is deur koue weer of droogtestres, kan lei tot onvoldoende beheer of onderdrukking en hergroei kan moontlik plaasvind. Vir beste resultate, verseker deeglike bedekking van die teikenonkruid. **TARZEC® 320 WG** moet toegedien word voordat die gewas te dig word en doeltreffende bedekking van die onkruid beperk.

**TARZEC® 320 WG** op jong onkruid in die saailingstadium, maar voor dit verby die 4-blaar stadium gaan. Onkruid moet aktief groei onder vogtige toestande. Onkruid wat onder droogtestremming verkeer, mag minder gevoelig wees.

**TARZEC® 320 WG** inhibeer die groei van gevoelige onkruid. Sigbare simptome wys binne 2–4 weke onder ideale groeitoestande. Onder ongunstige toestande (verlengde periodes van uiterste temperature of vog), sal simptome sigbaar wees tot en met 6–8 weke na toediening.

**TARZEC® 320 WG** mag, onder sekere omstandighede, blaarafsnoering en/of vergeling van die onderste/ouer blare van die gewas veroorsaak. Dit sal geen effek op die opbrengs hê nie.

Optimale toedieningstemperatuur is tussen 8–25° C, toedienings kan egter teen temperature so laag as 5° C geskied.

Onkruidbeheer mag langer neem onder koeler toestande, maar finale beheer word nie beïnvloed nie. Toediening van **TARZEC® 320 WG** teen temperature onder 5 °C of wanneer nagtemperature benede vriespunt is, moet vermy word.

Op lande met hoë grasonkruidpopulasies, word 'n geskikte voorplantbespuiting (burndown) aanbeveel om latere in-gewas onkruiddruk en kompetisie te verlig. Gebruik van kort groei koringkultivars met goeie vroeë groeikrag kan ook help om grasonkruid te oorskadu. Die mate van effektiwiteit van 'n **TARZEC® 320 WG** toediening mag dan ook verhoog tesame met die verminderde onkruiddruk.

## SPOORELEMENTE

**TARZEC® 320 WG** is mengbaar wanneer afsonderlik met een van die spoorelemente mangaansulfaat ( $MnSO_4$ ), sinkoksied ( $ZnO_2$ ) en koperoksiechloried gebruik word. Onder geen omstandighede moet veelvoudige spoorelemente of blaarvoedingformulasies wat meer as 2 spoorelemente bevat, in 'n tenkmengsel saam met **TARZEC® 320 WG** gebruik word nie.

**VERWYS ALTYD NA DIE PRODUKETIKET.**

## NOTAS:

- (i) **WAAR EEN VAN DIE BOGENOEMDE PRODUKTE MET TARZEC® 320 WG IN 'N TENKMENGSSEL GEBRUIK WORD, MOET VOLLEDIGE INLIGTING VAN DIE BETROKKE ETIKET VERKRY EN NAGEVOLG WORD.**
- (ii) Die verenigbaarheid van **TARZEC® 320 WG** in tenkmengsels met aanbevole produkte, kan beïnvloed word deur die formulاسie van hierdie produkte. Die kwaliteit van die water kan ook 'n effek hê op hierdie tenkmengsels. Aangesien die formulاسie van ander produkte kan verander sonder die medewete van Corteva Agriscience RSA (Edms) Bpk en die kwaliteit van die water ook van plaas tot plaas kan varieer, moet 'n fisiese verenigbaarheidstoets altyd uitgevoer word voordat dit gespuit word. Corteva Agriscience RSA (Edms) Bpk aanvaar geen verantwoordelikheid vir gewas verdraagsaamheid van hierdie tenkmengsels waar die formulاسie van produkte verander het of vir mengsels met produkte wat nie hierbo genoem word nie.

MOET NIE enige produkte gebruik wat die pH van die spuitoplossing tot onder 'n waarde van 6.0 sal verlaag nie.

Vir verdere inligting, raadpleeg u plaaslike verteenwoordiger.

## MENGINSTRUKSIES

**TARZEC® 320 WG** is 'n waterdispergeerbare korrel wat maklik met water meng indien die volgende vermengingsinstruksies nagekom word:

- Vul die spuittenk kwart tot halfvol met skoon water.
- Begin die roering.
- **TARZEC® 320 WG** moet vooraf met water gemeng word om 'n bry (*slurry*) te vorm. Voeg die verlangde hoeveelheid **TARZEC® 320 WG** in 'n emmer water en roer totdat al die korrels opgelos het. Voeg die voorbereide **TARZEC® 320 WG** bry (*slurry*) by die spuittenk.
- Spoel houer gebruik vir voorafvermenging en voeg spoelwater tot die spuittenk by.
- Voeg die nodige hoeveelheid van aanbevole komplementêre onkruidodders by soos benodig.
- Vul die tenk verder met water tot die verlangde volume in die spuittenk bereik word.

## GRONDTOEDIENING

**TARZEC® 320 WG** alleen 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 liter water per hektaar toe te dien.

GEWAS	DOSIS/HA	AANMERKINGS
KORING	80 g <b>TARZEC® 320 WG</b>	Dien toe tussen die 2 blaarstadium en die twee-node stadium van die gewas en wanneer die onkruid in die aktiefgroeiende saailing stadium is (2-4 blaar).

Verseker deeglike bedekking van onkruid om effektiewe beheer te verkry. Waar onkruid deur 'n digte stand van die gewas en/of ander onkruid afgeskerm word, kan dit onvoldoende sproeibedekking veroorsaak wat swak onkruidbeheer tot gevolg kan hê. Neem hierdie aspek in ag wanneer daar op die spuittoedieningstyd besluit word. Onkruid wat na die toediening van **TARZEC® 320 WG** ontkiem, sal nie beheer word nie, aangesien hierdie produk oor geen sterk grond residuele nawerking beskik nie.

Graad van beheer verkry en die duurte van die effek hang af van die onkruidspesie, onkruidgrootte en groeitoestande gedurende en na die toediening.

Die aktiwiteit van **TARZEC® 320 WG** word verhoog deur die gebruik van 'n byvoegmiddel (teen die aanbevole dosis). Dit lewer meer konstante beheer van vatbare onkruid onder verskeie omgewingstoestande. Die gebruik van 'n byvoegmiddel kan ook die effektiwiteit teen sommige onkruid wat matig vatbaar is, verbeter. 'n Byvoegmiddel is veral voordelig onder droë toestande.

## SKOONMAAK VAN SPIJT

Om daaropvolgende skade aan gewasse anders as koring te vermy, moet alle residu van **TARZEC® 320 WG** direk na toediening, deeglik vanuit die meng- en spuittoerusting verwyder word.

Gaan soos volg te werk:

- Dreineer die spuitsistiem onmiddellik na bespuiting van gewas. Was enige kontaminasie van die buitekant van die tenk af met skoon water.
- Spoel die binneoppervlak van die tenk met skoon water. Spuit ten minste een tiende van die tenk se kapasiteit deur die pype en spuitpunte. Dreineer die tenk deeglik.
- Maak die tenk half vol met skoon water en voeg die korrekte hoeveelheid skoonmaakmiddel by. Vir elke 100 liter van die finale tenk volume, voeg 350 ml huishoudelike ammoniak (9.5 % ammoniak), in die water. (bv. in die geval van 'n 1 000 liter spuitenk, vul dit met 500 liter water en voeg 3,5 liter (=10 x 0,35 l) huishoudelike ammoniak by).

Die oorspronklike mengsel, wat nou dubbel-sterkte is, moet deeglik geroer word en deur die pype en spuitpunte vir ongeveer 1 minuut gespoel word.

Voeg dan water by die oorblywende mengsel tot die tenk vol is. Laat hierdie mengsel 15 minute in die tenk staan terwyl roering plaasvind. Na die verloop van 15 minute, spuit weer deur die pype en spuitpunte. Dreineer die tenk deeglik.



- d) Verwyder spuitpunte en siwwe en plaas in 'n emmer wat 40 ml huishoudelike ammoniak per 10 liter water bevat.
- e) Spoel die tenk weer deeglik uit met skoon water. Spuit ten minste een tiende van die tenk se kapasiteit deur die pype en spuitpunte.
- f) Spuit alle spoelwater veilig weg. Moet nie op sensitiewe gewasse of op lande bedoel vir die plant van sensitiewe gewasse, spuit nie.

#### Voorsorgmaatreëls met skoonmaak van spuit

- Moet nie die dampe van die skoonmaakmiddel inasem nie.
- Vermy kontak met oë en vel.
- In geval van kontak met oë en vel, spoel onmiddellik met genoegsame water en verkry mediese raad.
- Hou buite bereik van kinders, oningeligte persone en diere.
- Hou skoonmaakmiddels slegs in die oorspronklike houers.

## **BERGING EN Vernietiging**

### Bergingstoestand

Berg weg van sonlig en vogtigheid, in oorspronklike houers wat dig toegemaak is, in 'n goed geventileerde area, weg van voesel, voer en agter slot en grendel. Vermy berging bo 35 °C.

### Produk- en houervernietiging

Moet nie leë houers hergebruik vir enige ander doel nie, veral nie vir die stoor van water, voedsel en voer nie. Perforeer en druk die houers plat voordat dit op die voorgeskrewe wyse weggedoen word.

Vernietig leë houers of oorskotproduk in 'n industriële verbrandingsoond wat vir landbouchemikalieë goedgekeur is. Moet dit nie begrawe in of spuit op enige gebied wat onder landboukundige gebruik is nie. Leë houers moet deeglik met skoon water uitgespoel word. Gooi hierna die spoeloplossing in die spuitenk.

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