# SYNCRO

Reg. No. L 7497 (Act No. 36 of 1947)

A wettable powder post-emergence herbicide, packed in water soluble sachets, for the control of broadleaf weeds as indicated in dry land Wheat, Barley and Oats in the Western-, Eastern Cape and Wheat in the Free State.

HRAC: HERBICIDE GROUP B

**ACTIVE INGREDIENT:**
Triasulfuron (sulfonyl urea) ..... 750 g/kg

**REGISTERED BY:**
BITRAD CONSULTING (PTY) LTD. Reg. No. 2002/025636/07
PO Box 51454, Wierda Park, 0149

ROMEX is a registered trademark

**WARNINGS:**

- Store in a cool, dry place.
- Store under lock and key, away from food and feeds.
- Store in tightly closed original containers, away from direct sunlight and high moisture conditions.
- Keep out of reach of children, uninformed persons and animals.
- AERIAL APPLICATION: Notify all inhabitants of the immediate area to be sprayed and issue the necessary warnings. **SYNCRO** is a highly active herbicide that in small quantities, when used incorrectly, can cause serious damage to crop seedlings, deciduous fruit trees and grape vines during the budding- and early season growth stages. Under the following conditions it can cause serious damage as far as 3 to 5 km from the nearest spray path of the aircraft: Cloudy weather with relative humidity above 80% and low air movement of less than 5 km per hour. When such conditions prevail, aerial application should NOT be carried out where crop seedlings, deciduous fruit trees and grape vines in budding or early development stages are present within 5 km of the nearest spray path of the aircraft. Do not spray over- or allow drift to contaminate water sources and areas not under treatment.
- Incorrect timing of application in terms of crop stage and/or excessive dosage rates may damage the crop.

**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 label instructions or to the occurrence of conditions that could not have been foreseen in terms of the registration.**
**Consult the supplier in the event of any uncertainty.**

**PRECAUTIONS:**

- Keep the soluble sachets dry at all times – until mixing takes place.
- Do not eat, drink or smoke whilst mixing and applying or before washing hands and face.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Wash with soap and water after use and accidental skin contact.
- In case of eye contact, immediately flush with water.
- Wash contaminated clothing daily.
- Do not inhale the spray mist.
- Avoid drift of spray onto other crops, grazing, rivers, dams and areas not under treatment.
- **Cleaning of Application Equipment:** Special attention and care must be taken with cleaning of all equipment used in the mixing and application of **SYNCRO** – before using it for applications on other crops:

1. Drain spray tank and rinse thoroughly with ample water. Flush the pipes, boom and nozzles of applicator with the water.
2. Drain spray tank again and fill with clean water.
3. Add household Ammonia – 1 litre for every 100 litres of water.
4. Bleed the system to ensure that all pipes, booms and nozzles are filled with the ammonia solution.
5. Leave the ammonia solution in the applicator for at least one hour.
6. Drain spray tank and pipe system completely.
7. Repeat steps 2 to 6.
8. Remove ammonia residues by flushing system with clean water.
9. Contamination on mixing equipment must also be washed with ammonia solution, whilst those on the outside of equipment can be washed with water.

- Do NOT dispose the wash water where it will contaminate crops, grazing, rivers and dams, and the root zone of desirable plants.
- Destroy empty containers and do not use it for any other purpose.

**RESISTANCE STATEMENT:**
**SYNCRO** is a member of the sulfonylurea group of herbicides (group B) and is an acetolactate synthase (ALS) inhibitor. Some naturally occuring weed biotypes resistant to **SYNCRO** and other ALS inhibitors (group B herbicides) may exist through normal genetic variability in a weed population. These resistant weeds can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by **SYNCRO** or by other group B herbicides.

**To delay the selection of resistant weeds :**

- Integrate tillage or other mechanical control methods (including non-selective herbicides during the fallow period) into weed programmes whenever practical.
- Avoid repeated use of herbicides of the same mode of action group. Plan crop rotations to allow the use of herbicides from different mode of action group.
- Maintain herbicide records for each field to prevent repeated use of the same herbicide on the same field.
- Prevent movement of resistant weed seeds and vegetative material to other fields by cleaning harvesting and tillage equipment and by planting clean seed.
- Inspect each land annually to identify the development of resistance early.
- If the above-mentioned preventative measures are not strictly adhered to, the registration holder cannot be held responsible should **SYNCRO** fail to control resistant weeds.

Note: Sub-standard applications will lead to unsatisfactory control and assist in the development of resistance.

**USE RESTRICTIONS:**

1. The use of **SYNCRO** is restricted to dry land Wheat, Barley and Oats in the Western - and Eastern Cape and Wheat in the Free State
2. **Follow-up crops.**
   - After a **SYNCRO** application, the following pre-plant intervals for follow up crops must be dhered to:

     | | |
     |---|---|
     | Wheat, Barley, Oats | - 6 months |
     | Lupins and Peas | - 9 months |
     | Medics, Clover & Lucerne | - 11 months |
     | **Any other crops** | - 24 months (preceded by a test planting) |

   - Soils with pH levels exceeding 6.5 (KCI) and/or soils containing free lime may result in longer residual activity of **SYNCRO** in respect of follow-up crops.
3. **Erratic control/regrowth** of weeds may occur under any of the following conditions:
   - Soils that tend to leach and/or become waterlogged.
   - Solid objects covering the soil surface e.g. hard clods and stones.
   - Applications that do not coincide with the correct growth stages of weeds - as recommended.
   - Large weeds that escaped chemical tillage or cultivation, will not be controlled.
   - The residual effect on germinating weeds is limited and depends on factors such as weed species, soil pH, soil moisture and - temperature.
4. **Crop stress conditions**. Do not use **SYNCRO** when crop is growing under any stress condition e.g. water logging, drought, disease, insect damage and nutritional deficiencies (especially Nitrogen).
5. **Undersown Cereals: SYNCRO** must not be applied to cereals under sown with legumes.
6. **Water quality:** Use only water of good quality as suitable for irrigation, i.e. neutral pH, and without excessive salts/chemicals.
7. **Compatibility:** Crop safety of certain tank mixtures must be tested prior to commercial use. It is known that chlorpyrifos in mixture with sulfonyl ureas are **not** safe to crops.
   Likewise, a surfactant must not be added to a tank mixture of **SYNCRO** mixed with another EC formulation when aerial application is done.
8. **DO NOT** leave unused spray mixture overnight for later use.

**DIRECTIONS FOR USE:** **USE ONLY AS DIRECTED**

- **SYNCRO** use is limited to dry land Wheat, Barley and Oats in the Winter Rainfall Region only i.e. Western - and Eastern Cape and Wheat in the Free State.
- Apply **SYNCRO** post emergence, after weeds have germinated and when the crop has reached the 3 – 5 leaf stage.
- **SYNCRO** is formulated as a wettable powder and packed in water soluble sachets to ensure accurate dosages. Each sachet contains 15 g product.
- **The use of SYNCRO in tank mixture with ROMEX and/or bromoxynil is recommended for the Western - and Eastern Cape and MCPA mixture is recommended for the Free State. (See Note under Application Table)**

**PRE-MIXING:**

- Do not handle the water soluble sachets with wet gloves.
- Count the number of sachets needed according to number of hectares to be treated and the capacity of the spray tank.
- Add the counted sachets into a bucket with water and mix to ensure that total disintegration of the sachets and full dispersing of the contents in the water occurs.
- Add this concentrate mixture to the spray tank.

**MIXING INSTRUCTIONS:**

1. Fill spray tank to $^1/_2$ full of water.
2. Add the dispersed mixture to the tank through a sieve.
3. Top up to the required volume while agitating continuously, then proceed as follows:
   **Ground application:**
   Add the required amount of surfactant to the spray mixture while agitating. Wait until thoroughly mixed before application.
   **Aerial application:**
   Follow the same steps as above. If a registered Anti-evaporant/Drift Control Agent is to be used, add the product slowly to the surface of the continuously agitated water and ensure good mixing before the spray mixture is pumped into the aircraft.

**APPLICATION:**
**Ground application:**
Apply 150 to 250 litres spray mixture per hectare at a constant operating pressure of 150 to 300 kPa and constant ground speed.
Ensure an even coverage of the target area, using boom fitted with solid - or hollow cone nozzles. Prevent overdosing by avoiding overlapping of swaths and spraying whilst moving at speeds below the constant calibration speed and/or stopping.
**Aerial application: (SEE WARNING ABOVE)**
**SYNCRO** may only be applied by a registered Aerial Application Operator using a correctly calibrated, registered aircraft according to the instructions of SANS 10118 (The Aerial Application of Pesticides). Ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met:

- Volume: A spray mixture volume of 30 to 35 ℓ per hectare is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended above.
- Droplet coverage: 30 to 40 droplets per cm² must be recovered at the target area.
- Droplet size: A droplet spectrum with a VMD of 300 to 350 microns is recommended. Limit the production of fine droplets less than 150 microns (high drift and evaporation potential) to a minimum.
- Flying height: Maintain the height of the spray boom at 3 to 4 metres above the target. Do not spray when aircraft dives, is in a climb or when banking.
- Use suitable atomising equipment that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product. The spraying system must produce a droplet spectrum with the lowest possible Relative Span.
- Position all the atomisers within the inner 60 to 75 % of the wingspan to prevent droplets from entering the wingtip vortices.
- The difference in temperature between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8°C.
- Stop spraying if the wind speed exceeds 15 km/h.
- Stop spraying under turbulent, unstable and dry conditions during the heat of the day.
- Spraying under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions (relative humidity 80% and above) may lead to the following:
  – reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage).
  – damage to other sensitive crops and/or non-target areas through drifting of the suspended spray cloud away from the target field.
- Ensure that the Aerial Spray Operator knows exactly which fields to spray.

Obtain an assurance from the Aerial Spray Operator that the above requiirements will be met and that relevant data will be compiled in a logbook and kept for future reference.

**APPLICATION TABLE:**
**The use of SYNCRO in mixtures is preferred and recommended as indicated below.**

| CROP | DOSAGE/ha | DIRECTIONS FOR APPLICATION |
|---|---|---|
| **WHEAT, BARLEY and OATS:** | **WESTERN - AND EASTERN CAPE:**<br><br>**Product used alone:**<br>**For ground - and aerial application,** 15 g **SYNCRO** (1 sachet/ha) plus 50 ml **Wet-All**/100 litre spray mixture<br>or<br>**TRISURE** at 300 mℓ/100 ℓ spray mixture<br>or<br>other Surfactant at registered rate.<br><br>**For Aerial application,** add Surfactant (except when EC products are used in tank mixes) and Anti Drift Agent / Anti-evaporant if needed (at registered rates). | **Strictly adhere to the maximum growth stages of weeds at application as indicated in the table below.**<br><br>Best weed control results are obtained when applications coincide with optimal growing conditions, when weeds are growing actively under ideal moisture regimes. Apply as a post-emergence application to **young weeds which are not exceeding the growth stages given in the following table** and when the cereal crop is in the 3 – 5 leaf stage. DO NOT use **SYNCRO** when crop is growing under stress conditions.<br>Please refer to **Use Restrictions** and pay attention to limitations of the product in terms of:<br>* Controlling large weeds<br>* Erratic control and regrowth of weeds<br>* Pre-plant intervals of follow-up crops<br>* Warning on under sown crops<br>* Compatibility with other products<br>* Quality of water used in applications |
| | **Product tank mix recommendations:**<br><br>**For ground - and aerial application,** 15 g **SYNCRO** (1 sachet/ha) plus 7 g **Romex** (200 g/kg WP) 1 sachet/4 ha plus 50 mℓ **Wet-All**/100 litre spray mixture<br>or<br>**TRISURE** at 300 ml/100 ℓ spray mixture<br>or<br>other Surfactant at registered rate.<br><br>**For Aerial application with mixtures:** Follow recommendations as for **SYNCRO** when used alone. | This mixture is recommended when ***Emex australis*** is present in the weed population. Do not exceed the max. growth stage of weed as indicated in table below. As a strategy towards limiting resistance development against the sulfonyl urea (group B) herbicides, substitute **ROMEX** with MCPA 400 SL every third year. When MCPA is used, apply when the crop is in growth stage - GS7 to GS13 (as popularly described). |
| | **For ground application,** 15 g **SYNCRO** (1 sachet/ha) plus 600 - 750 mℓ **Bromoxynil** 225 EC plus 50 ml **Wet-All**/100 litre spray mixture<br>or<br>**TRISURE** at 300 mℓ/100 ℓ spray mixture<br>or<br>other Surfactant at registered rate.<br><br>**Aerial application is not recommended for this mixture.** | This mixture is recommended as another alternative where ***Emex australis*** is present in the weed population and to minimise weed resistance against the sulfonyl urea group, or where cop stage exceeds the limit for phenoxy type herbicide applications. Use the higher dosage rate of **Bromoxynil** for larger ***Emex australis*** weeds, but not exceeding the 5 leaf stage. |
| **WHEAT** | **FREE STATE:**<br>**For ground - and aerial application,** 15 g **SYNCRO** (1 sachet/ha) plus 2,0 – 4,0 litre/ha **MCPA** 400 SL plus 50 mℓ **Wet-All**/100 litre spray mixture<br>or<br>**TRISURE** at 300 mℓ/100 ℓ spray mixture<br>or<br>other Surfactant at registered rate.<br>**For Aerial application,** add Surfactant (except when EC tank mixes are used) and Anti Drift Agent / Anti-evaporant if needed (at registered rates). | Use **SYNCRO** only in mixture. Recommended when ***Chenopodium album*** is present as weed.<br>Use the higher MCPA rate for larger weeds.<br>Apply when the crop is in the GS7 to GS13 growth stage (as popularly described). |

**WEEDS CONTROLLED :**
**Western – and Eastern Cape:**
The following weed species are normally controlled by **SYNCRO**, **if used alone at 15 g/ha DOSAGE** from emergence up to the growth stage indicated:

| Common Name | Botanical name | Maximum weed size at application |
|---|---|---|
| Cape wild mustard | *Sysimbrium capense* | 5 cm |
| Chickweed | *Stellaria media* | 5 cm |
| Fumatory | *Fumaria muralis* | 5 cm |
| Nettle leaved goosefoot | *Chenopodium murale* | 5 cm |
| Small stinkweed | *Pentzia suffruticosa* | 5 cm |
| Wild radish | *Raphanus raphanistrum* | 5 cm - 4 leaves |
| Vetch | *Vicia spp.* | 5 cm |

The following weed species are **additionally** controlled by **SYNCRO if used in tank mixture with ROMEX and/or Bromoxynil 225 EC.**

| Common Name | Botanical name | Maximum weed size at application |
|---|---|---|
| Spiny emex | *Emex australis* | 3 leaf stage. |

**Free State:**
The following weed species are controlled by **SYNCRO if used in tank mixture with MCPA 400 SL.**

| Common Name | Botanical name | Maximum weed size at application |
|---|---|---|
| White goosefoot | *Chenopodium album* | 5 cm |

| | |
|---|---|
| Romex | - Reg. Nr. L 6986 |
| Wet-All | - Reg. Nr. L 8361 |
| Trisure | - Reg. Nr. L 7141 |

**010240**

# SYNCRO

Reg. Nr. L 7497 (Wet Nr. 36 van 1947)

'n Benatbare poeier na-opkom onkruiddoder, verpak in wateroplosbare sakkies, vir die beheer van breëblaar onkruide soos aangedui in droëland Koring, Gars en Hawer in die Wes-, Oos-Kaap en Vrystaat

**AKTIEWE BESTANDDEEL:**
Triasulfuron (sulfonielureum) ..... 750 g/kg

**GEREGISTREER DEUR:**
BITRAD CONSULTING (PTY) LTD. Reg. No. 2002/025636/07
PO Box 51454, Wierda Park, 0149

ROMEX is 'n geregistreerde handelsmerk

**WAARSKUWINGS:**

- Bewaar in koel droë plek.
- Bewaar gesluit, weg van voedsel en voer.
- Bewaar in goed toegemaakte oorspronklike houers, weg van direkte sonlig en hoë vogtoestande.
- Hou buite bereik van kinders, oningeligte persone en diere.
- LUGTOEDIENING - Stel alle inwoners in die nabye omgewing in kennis van die gebied wat bespuit gaan word en reik die nodige waarskuwings uit. **SYNCRO** is 'n uiters aktiewe onkruiddoder wat in klein hoeveelhede, indien verkeerdelik aangewend, ernstige skade kan aanrig aan gewassaailinge, sagtevrugtebome en wingerde. Onder die volgende klimaatstoestande kan dit erntige skade aanrig vir sover as 3 – 5 km vanaf die naaste spuitbaan van die vliegtuig: Bewolkte weer met relatiewe humiditeit hoër as 80 % en stadige lugbeweging van minder as 5 km per uur. Waar sulke toestande heers, moet lugtoedienings NIE gedoen word indien gewassaailinge, sagtevrugtebome of wingerde tydens bot en vroeëseisoensgroei voorkom binne 5 km vanaf die naaste spuitbaan van die vliegtuig nie.
  Moet nie oor aangrensende gebiede of waterbronne spuit of die spuitnewel toelaat om dit te besoedel nie.
- Verkeerde tydstip van toediening in terme van gewasstadium en/of oordosisse mag lei tot gewasskade.

**Alhoewel hierdie middel omvattend onder 'n groot verskeidenheid toestande getoets is waarborg die registrasiehouer nie dat dit onder all toestande doeltreffend sal wees nie, aangesien die werking en effek daarvan beinvloed 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, en omgewing of vir nadelige effek op mens of dier of vir 'n gebrek aan prestasie van die betrokke middel 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:**

- Hou die wateroplosbare sakkies ten alle tye droog – totdat vermenging plaasvind.
- Moenie eet, drink of rook terwyl produk gebruik word nie, of voordat hande en gesig gewas is nie.
- Vermy besoedeling van voedsel, voer, drinkwater en eetgerei.
- Was met seep en water na gebruik en toevallige velkontak.
- In geval van kontak met oë, spoel onmiddellik met water.
- Was besoedelde klere daagliks.
- Moet nie die spuitnewel inasem nie.
- Voorkom wegdrywing van die spuitnewel na ander gewasse, weiding, riviere, damme en gebiede wat nie behandel moet word nie.
- **Skoonmaak van toedieningsapparaat:** Spesiale aandag moet gegee word aan die skoonmaak van spuittoerusting wat gebruik is vir **SYNCRO** – voordat dit gebruik word vir toedienings op ander gewasse:

1. Dreineer spuittenk en spoel deeglik met genoeg water. Pomp ook water deur die pype, spuitbalk en spuitpunte.
2. Dreineer die spuittenk weer en hervul met skoon water.
3. Voeg huishoudelike Ammoniak by water in spuittenk – 1 liter vir elke 100 liter water.
4. Bloei die sisteem om te verseker dat alle pype, spuitbalk en spuitpunte gevul is met die Ammoniakoplossing.
5. Laat die Ammoniakoplossing vir ten minste een uur in die spuittenk en -sisteem.
6. Dreineer weer die spuittenk en spuitsisteem.
7. Herhaal stappe 2 tot 6.
8. Verwyder die Ammoniakresidue deur die spuitsisteem goed te spoel met skoon water.
9. Kontaminasie op die mengapparaat moet ook gewas word met 'n Ammoniak oplossing, terwyl residue op die buitekant van spuittoerusting met water afgewas kan word.

- Moet NIE waswater weggooi waar dit gewasse, weiding, riviere, damme en die wortelgebied van gewenste plante kan besoedel nie.
- Vernietig leë houers en moet dit nie gebruik vir enige ander doel nie.

**WEERSTANDVERKLARING:**
**SYNCRO** hoort tot die sulfonielureum groep onkruiddoders (groep B) en is 'n acetolaktaat sintase (ALS) inhibeerder. Sommige onkruidbiotipes, weerstandbiedend teen **SYNCRO** en ander ALS inhibeerders (groep B onkruiddoders) mag natuurlik voorkom deur hulle normale genetiese variasie in die onkruidpopulasie. Hierdie weerstandbiedende onkruide kan uiteindelik die onkruidpopulasie domineer indien hierdie onkruiddoders herhaaldelik gebruik word. Hierdie weerstandbiedende onkruide sal nie beheer word deur **SYNCRO** of ander B-groep onkruiddoders nie.

**Om die seleksie van weerstandbiedende onkruide te vertraag :**

- Integreer grondbewerking of ander meganiese beheermetodes (insluitend die gebruik van nie-selektiewe onkruiddoders op braaklande) met onkruid beheerprogramme waar prakties moontlik.
- Voorkom herhaaldelike gebruik van onkruiddoders met dieselfde metode van werking.
  Beplan wisselbou om die gebruik van ander onkruiddoders (uit ander groepe) met verskillende werkingsmetodes moontlik te maak.
- Hou rekord van onkruiddoder gebruik vir elke land, om te voorkom dat dieselfde onkruiddoder herhaaldelik gebruik word op dieselfde land.
- Voorkom die verspreiding van weerstandbiedende onkruide se saad of steggies na ander lande deur implemente en oesmasjiene skoon te hou en deur skoon saad te plant.
- Inspekteer elke land jaarliks, om die ontwikkeling van weerstand vroeg te identifiseer.
- Indien bovermelde voorkomende maatreëls nie streng nagekom word nie, kan die registrasiehouer nie verantwoordelik gehou word indien **SYNCRO** nie weerstandbiedende onkruide beheer nie.

**Nota:** Sub-standaard toedienings sal lei tot onbevredigende beheer wat kan bydra tot die ontwikkeling van weerstand.

**GEBRUIKSBEPERKINGS:**

1. Die gebruik van **SYNCRO** is beperk tot droëland Koring, Gars en Hawer in the Wes- en Oos- Kaap en Koring in die Vrystaat.
2. **Opvolg gewasse.**
   - Na toediening met **SYNCRO**, moet die volgende tydsintervalle gehandhaaf word, voordat opvolg gewasse geplant word:
     Koring, Gars, Hawer - 6 maande
     Lupiene and Ertjies - 9 maande
     Medicago, Klawer & Lusern - 11 maande
     **Alle ander gewasse** - 24 maande (voorafgegaan deur toetsplanting)
   - Gronde met pH vlakke wat 6.5 (KCl) oorskry en/of gronde wat vry kalk bevat, mag lei tot langer residuele grondaktiwiteit van **SYNCRO** teenoor opvolg gewasse.
3. **Wisselvallige beheer/hergroei** van onkruide mag voorkom onder enige van die volgende toestande:
   - Gronde wat loog en/of versuiping toon.
   - Vaste stowwe wat grondoppervlak bedek soos harde kluite en klippe.
   - Toedienings wat nie ooreenkom met die regte groeistadiums van onkruide nie – soos aanbeveel.
   - Groot onkruide wat bespuitings voor plant en/of bewerkings oorleef het, sal nie beheer word nie.
   - Die nawerking op ontkiemende onkruide is beperk en hang af van faktore soos onkruidspecies, grond pH, grondvog en -temperatuur.
4. **Gewas stremmingstoestande**. Moet nie **SYNCRO** toedien indien gewas onder stremmingstoestande verkeer nie bv. versuiping, droogte, siektes, insekskade en voedingstekorte (veral Stikstof).
5. **Ondergesaaide kleingraan: SYNCRO** moet nie toegedien word op kleingraan wat ondergesaai is met peulgewasse nie.
6. **Water kwaliteit:** Gebruik slegs water van goeie kwaliteit soos geskik vir besproeiing nl. neutrale pH en vry van oormatige soute/chemikalieë.
7. **Mengbaarheid:** Die veiligheid op gewasse van tenkmengsels moet getoets word voordat kommersiële toedienings plaasvind. Dit is bekend dat chlorpirifos in mengsel met sulfonielureas, nie veilig is op gewasse nie. Soortgelyk, moet benatter NIE bygevoeg word indien **SYNCRO** gemeng word met 'n ander EK formulasie wanneer lugbespuiting gedoen word nie.
8. **MOET NIE** ongebruikte spuitmengsel oornag laat vir latere gebruik nie.

**GEBRUIKSAANWYSINGS:** **GEBRUIK SLEGS SOOS AANGEDUI**

- Die gebruik van **SYNCRO** is beperk tot droëland Koring, Gars en Hawer in die Wes- en Oos- Kaap en Koring in die Vrystaat.
- Spuit **SYNCRO** na-opkoms, nadat onkruide ontkiem het wanneer die gewas die 3 - 5 blaarstadium bereik het.
- **SYNCRO** is geformuleer as 'n benatbare poeier en verpak in oplosbare sakkies om akkurate dossise te verseker. Elke sakkie bevat 15 g produk.
- **Die gebruik van SYNCRO in tenkmengsel met ROMEX en/of bromoksinil word aanbeveel vir die Wes- en Oos-Kaap en MCPA mengsel word aanbeveel vir die Vrystaat. (Sien Nota onder Toedieningstabel)**

**VOORMENG PROSES:**

- Moet nie die wateroplosbare sakkies met nat handskoene hanteer nie.
- Tel die getal sakkies af wat benodig word volgens die aantal hektaar wat behandel moet word en die kapasiteit van die spuittenk.
- Gooi die getelde sakkies in 'n emmer met water en meng om te verseker dat volle disintegrasie van die sakkies en volle dispersie van die inhoud in die water plaasgevind het.
- Voeg hierdie gekonsentreerde mengsel in die spuittenk.

**MENGINSTRUKSIES:**

1. Vul die spuittenk ½ vol met water.
2. Voeg die gedispergeerde konsentraatmengsel in tenk deur 'n sif.
3. Vul tenk tot verlangde kapasiteit terwyl voortdurend geroer word, gaan dan voort as volg:

**Grondtoediening:**
Voeg die verlangde hoeveelheid benatter in die tenk terwyl geroer word. Verseker goeie vermenging voordat toediening begin.
**Lugtoediening:**
Volg dieselfde stappe soos hierbo. Indien 'n geregistreerde Anti-verdampingsmiddel/Drywingbeheer produk gebruik word, voeg die produk stadig by op die oppervlak van die mengsel wat geroer word en verseker weereens goeie vermenging voordat spuitmengsel in die vliegtuig gepomp word.

**TOEDIENING:**
**Grondtoediening:**
Dien toe in 150 tot 250 liter spuitmengsel per hektaar teen 'n konstante spuitdruk van 150 tot 300 kPa en konstante grondspoed.
Verseker 'n eweredige bedekking van die teikengebied, deur spuitbalk toegerus met soliede- of holkeëlspuitpunte te gebruik. Voorkom oordosisse deur oorvleueling van spuitbane te vermy, asook bespuiting terwyl teen lae spoed beweeg word (onder kalibrasiespoed) en/of gestop word.
**Lugtoediening: (SIEN WAARSKUWING HIERBO)**
**SYNCRO** kan slegs deur 'n geregistreerde Lugbespuitingsoperateur met 'n korrek gekalibreerde, geregistreerde vliegtuig volgens die instruksies van SANS Kode 10118 (The Aerial Application of Pesticides) uit die lug bespuit word. Verseker dat die spuitmengsel eweredig oor die teikenarea versprei word, en die verlies aan spuitmengsel tydens toediening tot 'n minimum beperk word. Dit is daarom belangrik om aan die volgende vereistes te voldoen:

- Volume: 'n Spuitmengsel volume van 30 tot 35 ℓ per ha word aanbeveel. Hierdie produk is nie teen 'n verlaagde volume getoets nie. Die registrasiehouer kan nie effektiteit waarborg, of verantwoordelik gehou word vir enige nadelige effekte indien hierdie produk teen 'n laer volume, as hierbo aanbeveel, toegedien word nie.
- Druppel bedekking: 30 tot 40 druppels per $cm^2$ moet op die teikenarea herwin word.
- Druppelgrootte: 'n Druppelspektrum met 'n VMD van 300 tot 350 mikrons word aanbeveel. Beperk die produksie van druppels kleiner as 150 mikrons (hoë drywing en verdampingspotensiaal) tot 'n minimum.
- Vlieghoogte: Handhaaf die hoogte van die spuitbalk bo die teiken op 3 tot 4 meter. Moet nie spuit wanneer die vliegtuig duik, uitklim of draai nie.
- Gebruik geskikte atomiseringsapparaat wat die vereiste druppelgrootte en bedekking sal produseer, maar die minste verlies van produk verseker. Die spuitstelsel moet 'n druppelspektrum met die kleinste moontlike Relatiewe Span produseer.
- Plaas al die atomiseerders in die binneste 60 tot 75 % van die vlerkspan om te verhoed dat druppels binne-in die vlerkpuntvorteks beweeg.
- Die verskil in temperatuur tussen die nat- en droëboltermometer van 'n swaaihigrometer, moet nie 8°C oorskry nie.
- Stop bespuiting indien die windspoed 15 km/uur oorskry.
- Stop bespuiting tydens turbulente, onstabiele en droë toestande gedurende die hitte van die dag.
- Bespuiting onder temperatuur inversie toestande (deur bo of binne die inversie laag te spuit) en/of hoë lugvog toestande (relatiewe humiditeit 80% en meer) mag tot volgende probleme aanleiding gee:
  – verlaagde effektiwiteit aangesien die druppels as 'n wolk in die lug bly hang en moontlik verdamp (onvoldoende bedekking op teiken).
  – skade aan nie-teiken gewasse of sensitiewe areas as gevolg van wegdrywing van die spuitwolk na nie-teiken areas.
- Verseker dat die Lugbespuitingsoperateur presies weet watter lande bespuit moet word.

Dit is noodsaaklik om 'n versekering van die Lugbespuitingsoperateur te verkry dat aan al die bogenoemde vereistes voldoen sal word en dat data van belang in 'n logboek saamgevat is vir toekomstige verwysing.

**TOEDIENINGSTABEL:**
**Die gebruik van SYNCRO in mengsels word verkies en aanbeveel soos aangedui hieronder.**

| GEWAS | DOSIS/ha | AANWYSINGS VIR TOEDIENING |
|---|---|---|
| **KORING, GARS en HAWER:** | **WES- EN OOS-KAAP:**<br><br>**Produk alleen gebruik:**<br>**Vir grond- en lugtoediening,**<br>15 g **SYNCRO** (1 sakkie/ha)<br>plus 50 ml **Wet-All**/100 liter spuitmengsel<br>of<br>**TRISURE** teen 300 mℓ/100 ℓ spuitmengsel<br>of<br>ander Benatter teen geregistreerde dosis.<br><br>**Vir Lugtoediening,**<br>voeg<br>Benatter by (behalwe as EK produkte in tenkmengsels gebruik word) en Drywingsbeheerproduk/ Anti-verdampingsmiddel indien benodig (beide teen geregistreerde dossise). | **Die maksimum toelaatbare grootte van onkruide tydens toediening, moet streng gevolg word soos aangedui in onderstaande table.**<br><br>Die beste onkruidbeheer word verkry wanneer toedienings saamval met optimale groeitoestande, wanneer onkruide aktief groei onder ideale vogstatus. Dien toe as na-opkoms bespuiting op **jong onkruide wat nie die groeistadium oorskry soos aangegee in die volgende tabel nie** en wanneer die gewas in die 3 – 5 blaarstadium is. MOET NIE **SYNCRO** gebruik indien die gewas onder stremmingtoestande groei nie.<br>Verwys asseblief na **Gebruiksbeperkings** en let op die beperkings van die produk in terme van:<br>* Beheer van groot onkruide<br>* Wisselvallige beheer en hergroei van onkruide<br>* Wagperiode voor plant van opvolggewasse<br>* Beperking van gebruik op ondergesaaides<br>* Mengbaarheid met ander produkte<br>* Kwaliteit van water gebruik vir bespuitings |
| | **Aanbeveling vir tenkmengsels:**<br><br>**Vir grond- en lugtoediening,**<br>15 g **SYNCRO** (1 sakkie/ha)<br>plus 7 g **Romex** (200 g/kg WP)<br>1 sakkie/4 ha plus 50 mℓ **Wet-All**/100 liter spuitmengsel<br>of<br>**TRISURE** teen 300 mℓ/100 ℓ spuitmengsel<br>of<br>ander Benatter teen geregistreerde dosis.<br><br>**Vir lugtoediening met mengsels:**<br>Volg aanbevelings soos vir **SYNCRO** wanneer produk alleen gebruik word. | Hierdie mengsel word aanbeveel wanneer ***Emex australis*** teenwoordig is as onkruid. Moenie die maksimum groeistadium van onkruid oorskry tydens toediening nie, soos hieronder aangedui.<br>As strategie om onkruid se ontwikkeling van weerstand teen die sulfonielurea (groep B) onkruiddoders te beperk, vervang **ROMEX** met MCPA 400 SL elke derde jaar. Wanneer MCPA gebruik word, dien toe wanneer die gewas in die GS7 tot GS13 groeistadium is (soos popular beskryf). |
| | **Vir grondtoediening,**<br>15 g **SYNCRO** (1 sakkie/ha)<br>plus 600 - 750 ml **Bromoksiniel** 225 EC plus 50 ml **Wet-All**/100 liter spuitmengsel<br>of<br>**TRISURE** teen 300 ml/100 ℓ spuitmengsel<br>of<br>ander Benatter teen geregistreerde dosis.<br><br>**Lugtoediening met hierdie mengsel word nie aanbeveel nie.** | Hierdie mengsel word aanbeveel as ander alternatief, waar ***Emex australis*** teenwoordig is as onkruid en om onkruidweerstand teen die sulfonielurea groep te minimiseer, of waar die groeistadium van die gewas, buite die limiete val vir toedienings met phenoksie tipe onkruiddoders.<br>Gebruik die hoë dosis van **Bromoksiniel** vir groter ***Emex australis*** onkruide, maar nie groter as die 5 blaarstadium nie. |
| **KORING** | **VRYSTAAT:**<br>**Vir grond- en lugtoediening,**<br>15 g **SYNCRO** (1 sakkie/ha)<br>plus 2,0 – 4,0 liter/ha **MCPA** 400 SL plus 50 ml **Wet-All**/100 liter spuitmengsel<br>of<br>**TRISURE** teen 300 mℓ/100 ℓ spuitmengsel<br>of<br>ander Benatter teen geregistreerde dosis.<br><br>**Vir Lugtoediening,**<br>voeg<br>Benatter by (behalwe as EK produkte in tenkmengsels gebruik word) en Drywingsbeheerproduk/ Anti-verdampingsmiddel indien benodig (beide teen geregistreerde dossise) | Gebruik **SYNCRO** slegs in mengsels. Word aanbeveel wanneer ***Chenopodium album*** teenwoordig is as onkruid.<br>Gebruik hoër **MCPA** dosis vir groter onkruide.<br>Dien toe wanneer die gewas in die GS7 tot GS13 groeistadium is (soos popular beskryf). |

**ONKRUIDE BEHEER:**
**Wes- en Oos-Kaap:**
Die volgende onkruidspecies word normaalweg beheer met **SYNCRO**, **wanneer alleen gebruik teen 15 g/ha DOSIS,** vanaf opkoms tot op groeistadium soos aangedui:

| Gewone naam | Botaniese naam | Maksimum onkruidgrootte met toediening |
|---|---|---|
| Kaapse wilde mosterd | *Sysimbrium capense* | 5 cm |
| Chickweed | *Stellaria media* | 5 cm |
| Duiwekerwel | *Fumaria muralis* | 5 cm |
| Hondebos | *Chenopodium murale* | 5 cm |
| Klein stinkkruid | *Pentzia suffruticosa* | 5 cm |
| Ramenas | *Raphanus raphanistrum* | 5 cm - 4 blare |
| Wilde ertjie | *Vicia spp.* | 5 cm |

Die volgende onkruidspecies word **addisioneel** beheer met **SYNCRO in tenkmengsels met ROMEX en/of Bromoksiniel 225 EC.**

| Gewone naam | Botaniese naam | Maksimum onkruidgrootte met toediening |
|---|---|---|
| Kaapse dubbeltjie | *Emex australis* | 3 blaarstadium |

**Vrystaat:**
Die volgende onkruidspecies word beheer met **SYNCRO in 'n tenkmengsel met MCPA 400 SL.**

| Gewone naam | Botaniese naam | Maksimum onkruidgrootte met toediening |
|---|---|---|
| Withondebossie | *Chenopodium album* | 5 cm |

Romex - Reg. Nr. L 6986
Wet-All - Reg. Nr. L 8361
Trisure - Reg. Nr. L 7141

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