

WARNINGS

Hazard Statements:

Harmful if swallowed. May be harmful in contact with skin. Causes skin irritation. Causes serious eye damage. Very toxic to aquatic life with long lasting effects.

PRE-HARVEST INTERVAL: ALLOW THE FOLLOWING MINIMUM NUMBER OF DAYS, BETWEEN LAST APPLICATION AND HARVEST. GRAZING IS NOT ALLOWED ON TREATED CROPS.

Wheat	96 days
Barley	96 days
Grapes	28 days

- Keep out of reach of children, uninformed persons and animals.
- Store in a cool, dry place, in the original container, tightly closed.
- Store away from foods and feeds.

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 or resistance of the weed 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 in the event of any uncertainty.

PRECAUTIONS

Precautionary Statements

General: If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.

Prevention: Wash hands, forearms and face thoroughly after handling. Avoid release to the environment. Wear protective clothing, eye protection, face protection, protective gloves.

Response: IF SWALLOWED: Call a doctor if you feel unwell. 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 doctor. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Collect spillage.

Disposal: Dispose of contents and container to an approved waste disposal plant.

- Do not eat, drink or smoke while using this product.
- Avoid contamination of food, feed, drinking water and eating utensils.
- Avoid contact with the spray as much as possible when spraying.
- Prevent spray drift onto susceptible crops, grazing, rivers, dams and other non-target areas.
- Serious localized or translocated damage may occur if spray or spray drift comes into contact with leaves, fruit or immature bark of trees, vines of non-target crops.
- Do not contaminate surface waters or rivers and streams with chemical or used container. Keep in original container only, away from food, drink and animal feeding stuffs.
- **CLEAN THE EMPTY FOIL-LINED BAG as follows:** 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. Do not bury, burn or donate the bag to any other parties that may use it as a container for foodstuffs. These bags cannot be recycled and must be incinerated by a licensed incineration facility.

BOREALIS 40 WG

Reg. No. / Nr L10734 Act No. 36 of 1947/ Wet Nr 36 van 1947

HERBICIDE



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

HERBICIDE GROUP CODE

14

ONKRUIDDODER GROEPKODE

A water dispersible granule herbicide for post-emergent control of broadleaved weeds in wheat and barley in the Western, Southern and Eastern Cape and as directed in orchards, vineyards and other crops as listed.

'n Waterdispergeerbare korrel onkruidodder vir na-opkoms beheer van breëblaaronkruid in koring en gars in die Wes-, Suid- en Oos Kaap en soos aangedui in boorde, wingerde en ander genoemde gewasse.

ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL:

Carfentrazone – ethyl (Triazolinone).....400g / kg.....Karfentrasoon-etiel (triasolinoon)



DANGER

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Causes serious eye damage.
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Precautionary Statements:

IF SWALLOWED: Call a doctor if you feel unwell.
IF ON SKIN: Wash with plenty of water.
IF IN EYES: Rinse cautiously with water for several minutes.

Batch No:

D.O.M:

D.O.E:

Net Mass:

See reverse of packaging for details.

FOR FULL PARTICULARS SEE ATTACHED PAMPHLET.

VIR VOLLEDIGE BESONDERHEDE KYK AANGEHEGTE ETIKET.

UN No. / VR Nr: 3082



REGISTRATION HOLDER/ REGISTRASIEHOUER

Farm Ag International (Pty) Ltd

Reg. Nr.: Reg. No. 2005/011761/07

61 Marshall Drive, Old Mill Industrial Park, Mount
Edgecombe, South Africa, 4300

Tel: 031 003 3486

Poison Information Helpline (24 hrs): 0861 555 777



BARCODE

RELEVANT SUBSTANCES:

NAME	PRODUCT IDENTIFIER
Carfentrazone-ethyl TC	CAS-No.: 128639-02-1
ammonium sulphate	CAS-No.: 7783-20-2
Sodium lignosulfonate	CAS-No.: 8061-51-6
Sodium dodecyl sulfate	CAS-No.: 151-21-3
disodium dihydrogen ethylenediaminetetraacetate, dihydrate	CAS-No.: 6381-92-6

RESISTANCE WARNING

For resistance management, **BOREALIS 40 WG** is a member of the triazolinone of herbicides, group code 14. These products control weeds through the process of membrane disruption initiated by PPO (protoporphyrin oxygenase) inhibition. Any weed population may contain individuals naturally resistant to **BOREALIS 40 WG** group code 14 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly for several consecutive years.

To delay weed 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 the control methods (chemical, cultural, biological) into herbicide control programs wherever possible.

All lands should be inspected regularly for early identification of the development of resistance.

MODE OF ACTION:

Acts by inhibition of protoporphyrinogen oxidase, leading to membrane disruption. Absorbed by foliage, limited translocation.

USE RESTRICTIONS

- Only use **BOREALIS 40 WG** in tank mixture with the recommended products listed on this label
- Do not apply by air.
- Do not apply **BOREALIS 40 WG** to crops under stress from drought, water logging, cold, pests or diseases, nutrient or lime deficiency or other factors reducing plant growth.
- Do not spray **BOREALIS 40 WG** to cereals under-sown with legumes, clovers or pasture grasses.
- Under no circumstances should unused spray mixtures be kept overnight.
- Do not apply **BOREALIS 40 WG** + MCPA 400 SL to a sparse crop stand. In a crop planted by a planter always apply **BOREALIS 40 WG** in combination with MCPA 400 SL + approved formulations of metsulfuron-methyl or Chlorsulfuron 750 WG. Crop competition is essential for optimal weed control with **BOREALIS 40 WG** + MCPA 400 SL.
- Full consideration should be given to the use restrictions on the labels of ALL products used in tank-mixes.

RE-PLANTING INTERVALS AND CROP ROTATION GUIDELINES

There is no restriction on the planting of any succeeding or rotational crop after the application of **BOREALIS 40 WG**. All crops can be planted 1 month after such application. Full consideration should be given to the minimum re-cropping intervals and crop rotation guidelines for ALL tank-mix products.

ADJACENT CROPS

Some non-target crops can be very sensitive to **BOREALIS 40 WG** and tank-mixes. Avoid drift of any of the spray mixture onto any broadleaf crops or plants outside the target area. Refer to all instructions and directions on other products used in a tank-mixture.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

GENERAL INFORMATION

Wheat and barley

- For optimum results, apply **BOREALIS 40 WG** when weeds are young, healthy and actively growing under moist soil conditions.
- Weeds growing under stress may be less susceptible to **BOREALIS 40 WG**.
- **BOREALIS 40 WG** rapidly burns down the leaves of the targeted weeds. However, total die-back and death of weeds may vary according to the species of the weed and prevailing conditions.

- Apply only when the crop is in the correct stage of development as indicated on this label.
- Apply only to an even crop stand and avoid areas with little or no crop competition effect.
- Application by windsock applicator could enhance symptoms of chlorotic leaf scorch.
- Use a suitable buffer according to label directions where the water is known to be alkaline. Attempt to obtain an ideal pH of 5 to 7.

Vineyard (perennial) crops (table grapes)

- Apply **BOREALIS 40WG** + GLYPHOSATE to actively growing weeds and ensure good coverage especially of larger, more mature weeds.
- Difficult to control annual weeds should preferably be treated in early spring as a pre blossom application.
- Use a suitable buffer according to label directions where the water is known to be alkaline / hard to obtain an ideal pH of 5 to 7.
- NB: Serious localized or translocated damage can occur if spray or spray drift comes into contact with vines bushes or any adjacent non-target crops.

COMPATIBILITY

BOREALIS 40 WG should only be used in tank-mixtures with the recommended products listed on this label and should not be mixed with grass herbicides when used in cereals. Grass herbicides must not be applied within 7 days of **BOREALIS 40 WG** application.

Compatibility of **BOREALIS 40 WG** has not been fully checked with all possible tank-mix products. Do not attempt mixing with other insecticides, herbicides or fungicides without prior consultation of the supplier.

Do not mix **BOREALIS 40 WG** with wetters or oils (relevant to cereals).

Only tank mixtures with single chemicals (except where indicated otherwise) are advised, as multiple mixtures will reduce efficacy.

If spraying **BOREALIS 40 WG** + MCPA 400 SL: only tank mix with the insecticides Dimethoate or Omethoate the fungicides Flusilazole, the foliar feeds Manganese.

BOREALIS 40 WG + MCPA 400 SL + METSULFURON – METHYL 600 WG or CHLORSULFURON 750 WG: do not tank mix with other chemicals.

BOREALIS 40 WG + GLYPHOSATE 360 g/l SL/ GLYPHOSATE 480 SL: only for use as directed in orchard and vineyard crops as listed: refer to GLYPHOSATE 360 g/l SL/ GLYPHOSATE 480 SL labels.

MIXING INSTRUCTIONS

Half fill the spray tank with clean water. Commence agitating and add the recommended quantity of **BOREALIS 40 WG** into the tank (pre-mix is not necessary). Complete by filling the tank with clean water to the required volume of spray mixture while agitating continuously. Wait until the product is thoroughly mixed before application. Ensure proper agitation of the spray mixture at all times until spray tank is empty.

Prepare only sufficient quantity of spray mixture for immediate use. Full consideration should be given to the mixing instructions of the recommended products tank mixed with **BOREALIS 40 WG**.

Where **BOREALIS 40 WG** is used in tank mix with GLYPHOSATE 360 g/l SL / GLYPHOSATE 480 SL the

order of mixing should be as follows: buffer agent, **BOREALIS 40WG**, GLYPHOSATE, Surfactant, drift control agent.

APPLICATION TECHNIQUES

Ground application only:

BOREALIS 40 WG works only by contact. It is therefore necessary to achieve a good overall coverage of the targeted plants.

Wheat and barley

- Apply by means of a tractor mounted boom sprayer which is correctly calibrated to deliver at least 200 liters and a maximum of 400 litres of spray mixture per hectare at a constant speed and pressure (100- 200 kPa) in order to ensure an even distribution.
- Avoid overlapping of swaths and close the nozzles whilst starting, slow movement, turning in the field and stopping. This will prevent over-spraying.

Orchard and vineyard (perennial) crops

- Apply using a knapsack sprayer or suitable motorized applicator with covered (shielded) nozzles or by using low pressures (100 – 200kPa) and/or low-drift nozzles in order to minimize the risk of drift.
- Use of larger orifice nozzles produces larger droplets that improve coverage and effectiveness and minimize the drift potential.
- Do not exceed a speed of 5 kph when applying by tractor or ground rig.
- Do not apply when wind speed exceeds 10 kph.
- Avoid application during conditions of temperature inversion.
- Apply approximately 200 liters spray mixture per hectare to ensure thorough coverage of the weeds.
- A repeat application may be necessary. If so, then spot spraying is recommended.

- It is the responsibility of the spray applicator to ensure that the spray/spray drift does not come into contact with non-target plants or crops.

APPLICATION RATES - wheat and barley

Crops	Dosage/ha	Remarks
Wheat <i>(Triticum aestivum)</i> Barley <i>(Hordeum vulgare)</i>	25 g BOREALIS 40 WG + 500 ml MCPA 400 SL or 25 g BOREALIS 40 WG + 500 ml MCPA 400 SL or 25 g BOREALIS 40 WG + 500 ml MCPA 400 SL + 3.5 g METSULFURON METHYL 600 WG or 25 g BOREALIS 40 WG + 500 ml MCPA 400 SL + 15 g CHLORSULFURON 750 WG	Apply post-emergence when wheat and barley are between stages 7 and 13 according to the growth stages listed by ARC Small Grain Institute, Bethlehem. Application should not be later than 6 weeks after weed emergence. Apply to barley in the 5 to 6 leaf stage.

WEEDS CONTROLLED

The following weed species are normally controlled by **BOREALIS 40 WG** + MCPA 400 SL, or **BOREALIS 40 WG** + MCPA 400 SL + METSULFURON METHYL 600 WG or **BOREALIS 40 WG** + MCPA 400 SL + CHLORSULFURON 750 WG used at the recommended rate.

Botanical Name	Common Name
<i>Anagallis arvensis</i>	Pimpernel
<i>Emex australis</i>	Spiny emex
<i>Erodium moschatum</i>	Musk heron's bill
<i>Fumaria muralis</i>	Fumitory
<i>Galium spurium</i>	Catchweed
<i>Malva parviflora</i>	Small mallow
<i>Pentzia suffruticosa</i>	Small stinkweed
<i>Polycarpon tetraphyllum</i>	Four-leaved allseed
<i>Raphanus raphanistrum</i>	Wild radish
<i>Viola tricolor</i>	Wild pansy
<i>Medicago spp.</i>	Alfafa
<i>Urtica urens</i>	Dwarf nettle

IMPORTANT NOTE:

Weeds germinating after the application of **BOREALIS 40 WG** + MCPA 400 SL tank mixture will not be controlled.

APPLICATION RATES - Vineyards (perennial) crops

Crops	Dosage/ha	Remarks
Vines (table grapes)	25 g BOREALIS 40 WG + 3 l GLYPHOSATE 360 g/l SL/ GLYPHOSATE 480 SL + surfactant (the addition of a suitable surfactant will enhance the cosmetic effect and rapidity of action)	Apply as a directed inter-row spray for the control of difficult weeds such as <i>Malva parviflora</i> , <i>Conyza bonariensis</i> , when these weeds are actively growing (ideal stage is when weeds are 10 – 20 cm in height). Shield young vines/trees/bushes with immature bark during application or use a covered sprayer. Ensure that contact is avoided on leaves, fruit and bark. Follow directions on the GLYPHOSATE 360 g/l SL/ GLYPHOSATE 480 SL labels.

SPRAYER CLEAN-OUT

- Immediately after spraying, drain the tank completely and flush it. Also flush the boom and hoses with clean water. Drain tank again.
- Fill the tank with clean water and add household ammonia (containing 3% active ammonia) at a rate of 1 litre for every 100 litres of water. Circulate the ammonia solution through the tank, boom and hoses for at least 10 minutes. Drain completely. Rinse tank with clean water and flush through the boom and hoses to remove traces of ammonia. Use at least one tenth of the spray volume. Drain completely.

Repeat rinsing as above.



WAARSKUWINGS

Gevaarstellings:

Skadelik indien ingesluk. Kan skadelik wees in kontak met die vel. Veroorsaak velirritasie. Veroorsaak ernstige oogskade. Baie giftig vir waterlewe met langdurige effekte.

LAAT DIE VOLGENDE AANTAL DAE TOE TUSSEN DIE LAASTE BEPUITING EN DIE OES (PHI). BEWEIDING WORD NIE TOEGELAAT OP BEHANDELDE GEWASSE NIE.

Koring	96 dae
Gars	96 dae
Druive	28 dae

- Hou buite bereik van kinders, oningeligte mense en diere.
- Bêre in koel droë plek, in die oorspronklike houer styf toe gemaak
- Bêre weg van kos en over

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 klimaats- en bergingstoestande, kwaliteit van verdunningswater, verenigbaarheid met ander stowwe wat nie op die etiket aangedui is nie en die voorkoms van weerstand van die siekte 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 mense of diere 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.

VOORSORGMAATREËLS

Voorsorgstellings

Algemeen: Indien mediese advies benodig word, hou produkhouer of etiket byderhand. Hou buite bereik van kinders. Lees etiket voor gebruik.

Voorkoming: Was hande, voorarms en gesig deeglik na hantering. Vermyn vrylating na die omgewing. Dra beskermende klere, oogbeskerming, gesigbeskerming, beskermende handskoene.

Reaksie: INDIEN INGESLUK: Ontbied 'n dokter as jy onwel voel. 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. Bel dadelik 'n dokter. Indien velirritasie voorkom: Kry mediese advies/aandag. Trek besoedelde klere uit en was dit voor hergebruik. Versamel gemors.

Wegdoening: Gooi inhoud en houer weg na 'n goedgekeurde afvalverwyderingsaanleg.

- Moet nie eet, drink of rook, tydens gebruik van produk nie.
- Vermyn besoedeling van kos, voer, drink water en eetgerei.
- Vermyn kontak van die spuitnewel so ver moontlik tydens toediening.
- Verhoed wegdrywing van spuitstof na vatbare aangrensende gewasse, weidings, riviere of damme en nie teiken areas.
- Direkte kontak van sproei of spuitnewel met blare, vrugte en/of onvolwasse bas van bome, wingerdstokke of nie teiken aangrensende plante kan lei tot ernstige gelokaliseerde of getranslokeerde skade.
- Uitsers gevaarlik vir vis of waterlewe. Moenie water-oppervlakte of riviere en spruite kontamineer met chemikali of gebruikte houters nie. Bewaar slegs in oorspronklike houer, weg van voedsel, drank en veevoer.
- **MAAK DIE LEE FOLIEGEVOERDE SAK SKOON soos volg:** Skud al die plaagdoderformulering uit die sak in die spuit- of mengtenk. Draai die sak binneste buite. Hou die sak oor die spuit- of mengtenk en spoel die sak uit met lopende water vir dertig sekondes. Skud die spoelwater in die tenk af. Herhaal die spoel twee keer. Moet nie die sak begrawe, verbrand of skenk aan enige ander partye wat dit as 'n houer vir voedsel kan gebruik nie. Hierdie sakke kan nie herwin word nie en moet deur 'n gelisensieerde verbrandingsfasiliteit verbrand word.

RELEVANTE STOWWE

NAAM	PRODUK IDENTIFISEERDER
Karfentrason-etiel TS	CAS-Nr.: 128639-02-1
Ammoniumsulfaat	CAS-Nr.: 7783-20-2
Natrium lignosulfonaat	CAS-Nr.: 8061-51-6
Natriumdodesielsulfaat	CAS-Nr.: 151-21-3
Dinatriumdiwaterstof etileendiamientetraasetaat, dihidraat	CAS-Nr.: 6381-92-6

ONKRUID WEERSTANDSBESTUUR

BOREALIS 40 WG is 'n lid van die triasolinoon onkruidodders groepkode 14 wat onkruid beheer deur die proses van membraan versteuring geïnisieer deur PPO (Protoporfierien oksigenase) inhibisie. Enige natuurlike onkruid populasie bevat individue wat natuurlik weerstandbiedend is teen **BOREALIS 40 WG** en enige groep kode 14 onkruidodders. Die onkruid met weerstand oorheers mettertyd die onkruid populasie as onkruidodders met dieselfde meganisme van werking (Kode 14) herhaaldelik gebruik word.

Om weerstand te vertraag:

- Vermoed die eksklusiewe herhaalde gebruik van onkruidodders van dieselfde groep kode. Wissel af of gebruik tenk mengsel met onkruidodders van alternatiewe groep kodes.
 - Geïntegreerde beheer matriëls (Chemies, bewerking, biologies) moet in die beheer program ingesluit word waar oorkal moontlik.
- Dit is van kern belang dat alle lande gereeld ondersoek moet word om die ontstaan van weerstand te identifiseer.

WYSE VAN AKSIE

Werk deur inhibisie van protoporfirinoogenoksidasie, wat lei tot membraanontwrigting. Geabsorbeer deur blare, beperkte translokasie.

GEBRUIKSBEPERKINGS

- Gebruik **BOREALIS 40 WG** slegs in 'n tenkmengsel met die produkte wat op hierdie etiket aanbeveel word.
- Moet nie met 'n vliegtuig toedien nie.
- Moet nie **BOREALIS 40 WG** toedien op gewasse onder stremming van droogte, versuip-toestande, koue, inseksskade of siektes, voedings- of kalk-tekorte of ander faktore wat plantegroei inhibeer nie.
- Moenie **BOREALIS 40 WG** toedien op graan ondergesaai met peulgewasse, klawers en weidingsgewasse nie.
- Moet onder geen omstandighede die ongebruikte spuitmengsel oormag laat staan nie.
- Moenie **BOREALIS 40 WG** + MCPA 400 SL toedien op 'n gewas met yl stand nie. In die geval waar met 'n planter geplant is, moet **BOREALIS 40 WG** altyd in kombinasie met MCPA 400SL + 'n goedgekeurde formulering van metsulfuron-metiel of Chlorsulfuron 750 WG toegegee word. Gewas kompetisie is noodsaaklik vir optimale onkruid-beheer met **BOREALIS 40 WG** + MCPA 400 SL.
- Gee volle aandag aan die gebruiksbepelkings van die etikette vir alle produkte wat in tenk mengsel kombinasie met **BOREALIS 40 WG** gebruik word.

MINIMUM OPVOLGGEWAS TUSSENPOSES EN RIGLYNE VIR GEWAS ROTASIE

Daar is geen beperking op die plant van enige opvolggewas of gewas rotasie na **BOREALIS 40 WG** toediening nie. Alle gewasse mag 1 maand na toediening gesaai word. Volle oorweging moet geskenk word aan die minimum opvolg-gewas tussenposes en gewas rotasie riglyne van van produkte wat in tenkmengsels gebruik word.

AANGRENSENDE GEWASSE

Sekere nie-teiken gewasse is baie gevoelig vir **BOREALIS 40 WG** en tenkmengsels.

Vermoed die wegdryf van spuitnewel van die spuitmengsel na breekbaarplante buite die teiken gebied. Verwys na alle aanbevelings en gebruiksaanwysings op die etikette van alle produkte van in tenkmengsels gebruik word.

GEBRUIKSAANWYSINGS: GEBRUIK SLEGS SOOS AANGEDUI ALGEMENE INLIGTING

Koring en gars

- Dien **BOREALIS 40 WG** toe op jong, aktief groeiende onkruid wat groei in klam grond vir beste resultate.
- Onkruid wat onder stremmingstoestande groei mag minder gevoelig wees vir **BOREALIS 40 WG**.

- **BOREALIS 40 WG** skroei die blare van teiken onkruid vinnig. Finale terug sterf van onkruid mag wissel volgens onkruid spesies en heersende toestande.
- Dien slegs toe op die gewas in die aanbevole stadium van ontwikkeling soos aangedui.
- Dien slegs toe op 'n egalige gewas stand en vermy areas met min of geen kompetisie effek van die gewas.
- Kousbalk toediening mag vergeling en blaarskroei vererger.
- Wanneer alkaliese en/of hardewater voorkom voeg 'n geskikte buffer teen die etiket aanbevelings by die tenk om 'n ideale pH van 5 tot 7 te kry.

Boorde en wingerd (meerjarige) gewasse (tafedruiwe)

- Dien **BOREALIS 40 WG** + GLYPHOSATE toe op aktief groeiende onkruid en verseker goeie bedekking veral op groter, meer volwasse onkruid.
- Eenjarige onkruid wat moeilik is om te beheer moet in vroeë lente as 'n voor-blom behandeling gespuit word.
- Wanneer alkaliese en/of hardewater voorkom voeg 'n geskikte buffer teen die etiket aanbevelings by die tenk vir 'n ideale pH van 5-7.
- NB: Direkte kontak van sproei of spuitnewel met Wingerdstokke of nie-teiken aangrensende plante kan lei tot ernstige gelokaliseerde of getranslokeerde skade.

ONKRUID WEERSTANDSBESTUUR

BOREALIS 40 WG is 'n lid van die triasolinoon onkruidodders groepkode 14 wat onkruid beheer deur die proses van membraan versteuring geïniseer deur PPO (Protoporferien oksigenase) inhibisie. Enige natuurlike onkruid populasie bevat individueel wat natuurlik weerstandbiedend is teen **BOREALIS 40 WG** en enige groep kode 14 onkruidodders. Die onkruid met weerstand oorheers mettertyd die onkruid populasie as onkruidodders met dieselfde meganisme van werking (Kode 14) herhaaldelik gebruik word.

Om weerstand te verjaag:

- Vermy die eksklusiewe herhaalde gebruik van onkruidodders van dieselfde groep kode. Wissel af of gebruik tenk mengsel met onkruidodders van alternatiewe groep kodes.
 - Geïntegreerde beheer matreëls (Chemies, bewerking, biologies) moet in die beheer program ingesluit word waar oorkal moontlik.
- Dis is van kern belang dat alle lande gereeld ondersoek moet word om die ontstaan van weerstand te identifiseer.

VERENIGBAARHEID

Gebruik **BOREALIS 40 WG** slegs in 'n mengsel met die produk wat op hierdie etiket aanbeveel word. Moenie **BOREALIS 40 WG** met grasodders vir gebruik in kleingraan meng nie. Grasodders moet nie binne 7 dae na 'n **BOREALIS 40 WG** bespuiting toegedien word nie.

Die verenigbaarheid van **BOREALIS 40 WG** is nog nie ten volle vasgestel nie. Moet nie meng met ander insekdoers, onkruidodders of swammiddels nie sonder om die voorsiener vooraf te raadpleeg nie.

Moenie **BOREALIS 40 WG** meng met benattingsmiddels of olie nie (geldig vir kleingraan).

Slegs tenkmengsels met enkel chemikalieë (behalwe soos aangedui) word aanbeveel, aangesien meervoudige mengsels onkruid beheer sal verlaag.

Wanneer **BOREALIS 40 WG** + MCPA 400 SL toegedien word: maak slegs tenkmengsels met die

Insekmiddels Dimetoaat, Ometoat en die swamdoers Flusilazole, en die blaar voeding mangaan tankmengsels met ander chemikalieë maak nie.

Wanneer **BOREALIS 40 WG** + MCPA 400 SL + METSULFURON – METIEL 600 WG of CHLORSULFURON 750 WG gemeng word mag geen ander chemikalieë as tenk mengsels bygevoeg word nie.

BOREALIS 40 WG + GLIFOSAAAT 360 G/L SL/ GLIFOSAAAT 480 SL slegs vir gebruik soos aanbeveel in boorde en wingerde soos gelys, Verwys na die GLIFOSAAAT 360 G/L SL/ GLIFOSAAAT 480 SL etikette.

MENGINSTRUKSIES

Maak die spuittenk halfvol met skoon water. Begin roering. Voeg die aanbevole hoeveelheid produk

geleidelik in die spuittenk (voorafvermenging is nie nodig nie). Vul dan met skoon water tot die verlangde volume spuitmengsel terwyl voortdurend roer word en wag tot produk deeglik vermeng is voor toediening. Verseker deeglike roering van die spuitmengsel ten alle tye totdat die spuittenk leeg is.

Vermeng slegs genoeg materiaal om dadelik toe te dien. Die menginstruksies van die produkte wat

saam met **BOREALIS 40 WG** gebruik word moet streng nagekom word.

Wanneer **BOREALIS 40 WG** in tenk mengsel met GLIFOSAAAT 360, OF GLIFOSAAAT 480 gebruik word moet die produkte in die volgende volgorde by diw spuit tenk toegevoeg word:

Buffer middel, **BOREALIS 40 WG**, GLIFOSAAAT, bevorderingsmiddel en dan wegdryf beheer middel.

TOEDIENINGSMETODES

Slegs grondtoediening:

BOREALIS 40 WG het slegs 'n kontakwerking. 'n Deeglike, eweredige bedekking is dus nodig op die teiken plante.

Koring en gars

- Gebruik 'n trekkegermunteerde balkspuit wat korrek gekalibreer is om ten minste 200 liter spuitmengsel per hektaar en 'n maksimum van 400 liter per hektaar teen 'n konstante spoed en druk (100 - 200 kPa) te lewer en eweredige verspreiding te verseker.
- Vermo oorrueeling van spuitbane en sluit die spuitpunte af tydens aanskakeling, stadige beweging, stilstand en wanneer gedraai word om oormatige toediening te voorkom.

Boorde en wingerd (meerjarige) gewasse

- Dien toe met 'n rugsakspuit of geskikte gemotoriseerde toediener met beskermde spuitkoppe en maak gebruik van lae druk (100 – 200kPa) en/of lae wegdryf spuitkoppe om die risiko van wegdryf te verminder
- Die gebruik van spuitkoppe met 'n groter opening verseker groter druppels wat bedekking en effektiwiteit verbeter en beperk potensiaal vir spuitnewel wegdrywing.
- Gedurende toediening met 'n gemotoriseerde apparaat, moet 'n spoed van 5 kph nie oorskry word nie Moenie in windsnelhede van meer as 10 kph spuit nie
- Verhoed toediening gedurende toestande van temperatuur inversie
- Dien toe in ongeveer 200 liters spuitmengsel per en hektaar en verseker deeglike bedekking van die onkruid.
- Herhaalde toediening mag nodig wees. As dit so is, word spuitbespuiting aanbeveel.
- Dit is die verantwoordelikheid van die toediener om te verseker dat spuitmengsel/newel nie in aanraking met nie-teikenplante of gewasse kom nie.

TOEDIENINGS HOEVEELHEDE - Koring en Gars

Gewas	Dosis/ha	Opmerkings
Koring (<i>Triticum aestivum</i>)	25 g BOREALIS 40 WG + 500 ml MCPA 400 SL of 25 g BOREALIS 40 WG + 500 ml MCPA 400 SL of 25 g BOREALIS 40 WG + 500 ml MCPA 400 SL + 3.5 g METSULFURON METIEL 600 WG Of 25 g BOREALIS 40 WG + 500 ml MCPA 400 SL + 15 g CHLORSULFURON 750 WG	Na-opkombespuiting wanneer koring en gars tussen stadia 7 en 13 volgens die lys van groei stadia van die ARC Kliën Graan Intituut van Bethlehem. Toediening moet nie later as 6 weke na onkruid opkom wees nie. Dien toe op Gars in die 5 tot 6 blaar stadium.
GARS (<i>Hordeum vulgare</i>)		

ONKRUIDE BEHEER

Die volgende onkruid is normaalweg deur BOREALIS 40 WG + MCPA 400 SL, of BOREALIS 40 WG + MCPA 400 SL + METSULFURON METIEL 600 WG of BOREALIS 40 WG + MCPA 400 SL + CHLORSULFURON 750 WG beheer teen die aanbevole dosis.

Botaniese Naam

Anagallis arvensis
Emex australis
Erodium moschatum
Fumaria muralis
Galium spurium
Malva parviflora
Pentzia suffruticosa
Polycarpon tetraphyllum

Gebruiksnaam

Pimpnrel
Kaapse Dubbeltjie
Turksnael
Duiwekerwel
Kleefkruid
Kiesieblaar
Klein stinkruid
Naaldvrug

Raphanus raphanistrum
Viola tricolor
Medicago spp.
Urtica urens

Ramenas
 Wilde viooltjie
 Lusern
 Dwerg brand netel.

BELANGRIKE NOTA:

Onkruid wat opkorm na die toediening van BOREALIS 40 WG + MCPA 400 tenk mengsel sal nie beheer word nie.

TOEDIEINGS HOEEVEELHEDE Wingerde (meerjarige) gewasse

Gewas	Dosis/ha	Opmerkings
Wingerd (tafel druiwe)	25 g BOREALIS 40 WG + 3 l GLYPHOSATE 360 g/l SL/ GLYPHOSATE 480 SL + bevorderingsmiddel (die byvoeg van 'n toepaslike bevorderingsmiddel sal die kosmetiese effek verbeter en vinnige aksie tot gevolg hê)	Apply as a directed inter-row spray for the control of difficult Dien toe as 'n gerigte bespuiting tussen die rye om onkruid wat moeilik beheer word soos <i>Malva parviflora</i> , <i>Conyza</i> <i>bonariensis</i> , wanneer hierdie onkruid aktief groei (ideale stadium wanneer onkruid 10 to 20 cm hoog is). Beskerm jong wingerd/bome/struik met onvolwasse bas tydens toediening of gebruik 'n beskermde spuit apparaat. Vermy kontak met blare, vrugte en bas. Volg aanbevelings op etikette van GLIFOSAAT 360 g/l SL / GLIFOSAAT 480 SL labels.

SPUIT APPARAAT SKOONMAAK

- Oombliklik na toediening, dreineer spuittenk en spoel die tenk, spuitbalk en pype met skoon water uit. Dreineer tenk weer.
- Vul tenk met skoon water en voeg huishoudelike ammoniak (wat 3% aktief bevat) daarby teen 'n konsentrasie van 1 liter per 100 liter water. Sirkuleer die ammoniak oplossing deur die tenk, spuitbalk en pype vir ongeveer 10 minute. Dreineer spuit tenk heeltemal. Spoel tenk uit met skoon water en deurspoel die spuitbalk en pype om ammoniakoorblyfsels te verwyder. Gebruik ten minste een tiende van die spuittenk volume. Dreineer heeltemal. Herhaal spoel soos hierbo.



BOREALIS 40 WG

Reg. No. / Nr L10734 Act No. 36 of 1947/ Wet Nr 36 van 1947

HERBICIDE



READ THE LABEL AND ATTACHED PACKAGED LEAFLET BEFORE USE
KEEP OUT OF REACH OF CHILDREN AND ANIMALS

HERBICIDE GROUP CODE

14

ONKRUIDDODER GROEPKODE

A water dispersible granule herbicide for post-emergent control of broadleaved weeds in wheat and barley in the Western, Southern and Eastern Cape and as directed in orchards, vineyards and other crops as listed.

'n Waterdispergeerbare korrel onkruidodder vir na-opkoms beheer van breëblaaronkruid in koring en gars in die Wes-, Suid- en Oos Kaap en soos aangedui in boorde, wingerde en ander genoemde gewasse.

ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL:

Carfentrazone – ethyl (Triazolinone).....400g / kg.....Karfentrasoon-etiel (triasolinoon)



ANGER

Hazard Statements:

Harmful if swallowed.
May be harmful in contact with skin.
Causes skin irritation.
Causes serious eye damage.
Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

IF SWALLOWED: Call a doctor if you feel unwell.
IF ON SKIN: Wash with plenty of water.
IF IN EYES: Rinse cautiously with water for several minutes.

Batch No:

D.O.M:

D.O.E:

Net Mass:

See reverse of packaging for details.

FOR FULL PARTICULARS SEE ATTACHED PAMPHLET.

VIR VOLLEDIGE BESONDERHEDE KYK AANGEHEGTE ETIKET.

UN No. / VR Nr: 3082



REGISTRATION HOLDER/ REGISTRASIEHOUER

Farm Ag International (Pty) Ltd

Reg. Nr: Reg. No. 2005/011761/07

61 Marshall Drive, Old Mill Industrial Park, Mount Edgecombe, South Africa, 4300

Tel: 031 003 3486

Poison Information Helpline (24 hrs): 0861 555 777



BARCODE

100284

165(H) x 140(W) mm

CYAN

MAG

YEL

BLK

100284