

BEFORE USING THIS PRODUCT READ THE LABEL CAREFULLY!

Herbicide



MORTAR 750 WSG

Reg. No. L 9738 Act/Wet No. 36 of/van 1947

3: 10/9/2020 - Sept2020

A water-soluble granular herbicide for post-emergent control of annual weeds as indicated in different crops as listed.

’n Wateroplosbare korrelonkruiddoder vir na-opkoms beheer van eenjarige onkruidse soos aangedui in verskillende gewasse soos gelys.

ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL

MCPA (acid equivalent) **750 g/kg** MCPA (suurekwivalent)
(4-chloro-2-methylphenoxy) acetic acid 893 g/kg (4-chloor-2-metiefenoksie) asynsuur
(as the phenoxy acetic salt (potassium salt) / as die fenoksie-asynsout (kaliumsuout))

HRAC HERBICIDE GROUP CODE **O** HRAC ONKRUIDDODER GROEPKODE

kg

villa

Registration holder / Registrasiehouer:

Villa Crop Protection (Pty) Ltd.

Co. Reg. No. / Mpy. Reg. Nr. 1992/002474/07

PO Box / Posbus 10413, Aston Manor, 1630

Tel: 011 396 2233

Website / Webblad: www.villacrop.co.za

UN Number: 3077

Willow Set & Print 011 394-4486



HARMFUL
SKADELIK



GEBRUIKSAANWYSLINGS INGESLUIT

VERWYS NA BESONDERHEDE
GEDRUK OP HOUER/SAK

Date formulated:
Formuleringsdatum:

REFER TO DETAILS PRINTED
ON CONTAINER/BAG

DIRECTIONS FOR USE ENCLOSED

Batch number:
Lotnommer:

MORTAR 750 WSG

Reg. No. L 9738 Act/Wet No. 36 of/van 1947

HRAC HERBICIDE GROUP CODE / HRAC ONKRUIDDODER GROEPKODE: O

ACTIVE INGREDIENT/ AKTIEWE BESTANDDEEL:

MCPA (acid equivalent / suurekwivalent)750 g/kg
 (4-chloro-2-methylphenoxy) acetic acid / (4-chloor-2-metielfenoksie) asynsuur
 (as the phenoxy acetic salt (potassium salt)/as die fenoksie-asynsout (kaliumsout)).....893 g/kg

Registration holder / Registrasiehouer:

VILLA CROP PROTECTION (PTY) LTD.

Co. Reg. No. 1992/002474/07 Mpy. Reg. Nr.

PO Box / Posbus 801,

KEMPTON PARK, 1620, Tel. (011) 396 2233

**WARNINGS****Withholding periods:**

- **Allow 7 days between the last application and grazing of treated areas.**
- **Allow 40 days between the last application and grazing of treated areas when tank mixed with Bromoxynil e.g. Campatop 225 EC.**
- Handle with care.
- Harmful when swallowed.
- Store in a cool, dry place away from food, feeds, fertilizers and other agricultural remedies.
- Keep out of reach of children, animals and uninformed persons.
- Do not apply to land adjacent to susceptible crops as well as grain varieties in a susceptible growth stage.
- Re-entry: Do not enter treated area until 1 day after application unless wearing protective clothing.

Aerial application:

Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings. Do not spray over or allow the drift to contaminate water or adjacent areas.

NOTE

MORTAR 750 WSG 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 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 ARE IN BUDDING OR EARLY DEVELOPMENT STAGES ARE PRESENT WITHIN 5 KM OF THE NEAREST SPRAY PATH OF THE AIRCRAFT.

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 the weeds to the remedy concerned, as well as by the method, time and accuracy of application. The registration holder further 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 event of any uncertainty.

PRECAUTIONS

- Avoid eye and skin contact and inhalation of spray mist.
- Wear rubber gloves and a face shield during mixing and application.
- Do not enter treated areas until the sprayed solution has dried.
- Wash contaminated clothing after use.
- Wash with soap and water after use or accidental skin contact.
- Do not eat, drink or smoke whilst mixing, applying the product or before washing hands and face or change of clothing.
- Avoid drift of spray onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean applicator with a 1% household ammonia solution before using for other pesticides. Let solution stand for several hours, preferably overnight, in the spray equipment. Rinse at least twice. This applicator should not be used for applying chemicals other than herbicides.
- Thoroughly clean spraying equipment directly after use and dispose of wash water where it will not contaminate food, grazing, boreholes, rivers or dams.
- Containers and packages must be completely emptied before being disposed of. Shake out thoroughly into the applicator and destroy the empty container thereafter in the described manner.
- Invert the empty container over the spray or mixing tank to make sure the container is empty before destroying the container.
- **TRIPLE RINSE** empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of a third of that of the container. Add the rinsing to the contents of the spray tank before destroying the container in the prescribed manner.
- Destroy the empty container by perforation and flattening.
- In case of spillage or leakage, soak up with soil or other absorbent materials and dispose of at any approved waste disposal facility.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

SYMPTOMS OF HUMAN POISONING

Harmful. Over-exposure to or swallowing of product may cause nausea, vomiting, excessive sweating, headaches, muscle soreness, abdominal pain and loss of coordination. May cause burns of mouth, throat and oesophagus.

FIRST AID TREATMENT

- **Inhalation:** Remove source of contamination or move person to fresh air as rapidly as possible. Keep affected person warm and at rest. Treat symptomatically and supportively. Only qualified medical personnel should perform administration of oxygen. Get medical attention immediately if condition persists.
- **Skin contact:** If irritation occurs, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts). Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Do not rub the skin. If irritation persists, seek medical advice immediately.
- **Eye contact:** Immediately flush eyes with gently flowing lukewarm water for 15 minutes or until the product is removed, holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. **Seek medical attention immediately.**
- **Ingestion:** Have patient rinse mouth thoroughly with water. Do not induce vomiting. If person is alert and conscious, give 2 to 3 glasses of water to drink. **Seek medical attention immediately.**

NOTE TO PHYSICIAN

This product contains a phenoxy herbicide. There is no antidote available. Treat symptomatically and supportively. Gastric lavage with activated charcoal is advised. Follow up with saline cathartic laxative. Avoid oily laxatives.

RESISTANCE WARNING

MORTAR 750 WSG is a group code O herbicide. Any weed population may contain individuals naturally resistant to **MORTAR 750 WSG** and other group code O herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly and exclusively in programs. These resistant weeds may not be controlled by **MORTAR 750 WSG** or any other group code O herbicides.

To delay herbicide resistance:

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

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

USE RESTRICTIONS

- Apply the product strictly in accordance with directions for use.
- **Drift management:**
 - To prevent damage, do not permit drift, vapour or spray mist to come into contact with sensitive broadleaf crops, fruit trees and ornamental plants.
 - Do not spray directly onto the leaves or vines and avoid that spray drift lands on the trees or vines. Spray under low wind speed (but not gusty) wind conditions but avoid calm temperature inversion conditions.
 - Do not spray if the orchards are inter-planted with any row crops.
- Do not use spray equipment afterwards for the application of insecticides or fungicides.
- For optimal weed control in orchards the following conditions must be met:
 - Do not spray immediately before or after irrigation.
 - Do not spray when rain is expected.
 - Rain shortly after application could result in poor weed control.

DIRECTIONS FOR USE: Use only as directed.**Compatibility:**

- **MORTAR 750 WSG** is compatible with **Campatop 225 EC**, **Scat® 360 SL** **Glygran 710 SG** and **Velocity® Drymax**.
- The compatibility of **MORTAR 750 WSG** in a tank mixture with other products is influenced by the formulations of these products, as well as quality of the spray water. It is recommended that a physical compatibility test always be performed prior to application as the formulation of other products can be altered, and the quality of water can vary from area to area.
- When **MORTAR 750 WSG** is used in conjunction with any other agricultural remedy, adhere to all **WARNINGS, PRECAUTIONS** and **DIRECTIONS FOR USE** mentioned on that label.

Mixing instructions:

- Do not prepare more spray solution than will be required immediately.
- Half fill the spray tank with clean water and ensure agitation.
- **Pre-mixing:** Pour approximately 15 litres of water into a 20 litres container. Open the foil bag and add the required amount of **MORTAR 750 WSG** to the 15 litres water in the container and mix thoroughly until all granules are completely dissolved.
- Add this pre-mixture to the half-filled spray tank whilst agitating.
- Continue agitation whilst filling the tank to the volume required.

Application instructions:

- Apply only when the crop is in the correct stage of development, as indicated. Weeds should only be sprayed in the young stages and when growing actively in a moist soil. Rain one day after application will not reduce the efficacy of the herbicide. Do not use a water volume of less than 150 litres per hectare with ground application.
- **Pre-emergence application:** Plant the crop in a weed-free, moist soil immediately after preparation of a fine seedbed. For the control of annual grasses, as indicated, application should be made before emergence of the grass seedlings.
- **Post-emergence application:** Apply only when the crop is in the correct stage of development, as indicated. Weeds should only be sprayed in the young stages and when growing actively in a moist soil.

Ground application:

- Apply by means of a tractor mounted boom sprayer, which is correctly calibrated to deliver at least 150 litres spray mixture per hectare at constant speed and pressure (100 to 200 kPa), to ensure an even distribution and coverage.
- Do not exceed spray height of 50 cm above target and ground speed of 10 km per hour.
- Do not apply if wind velocity exceeds 15 km per hour.

- The difference between the wet and dry bulb thermometer readings on a whirling hygrometer must not exceed 8 °C.
- In order to prevent over-application, avoid overlapping of swaths and close the nozzles when starting, moving slowly, turning or stopping.

Aerial application:

DO NOT APPLY BY AIR IN KWAZULU NATAL.

Aerial application of **MORTAR 750 WSG** may only be done by a registered aerial application operator using a correctly calibrated, registered aircraft according to the instructions of SANS Code 10118 (Aerial Application of Agricultural 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:

- **The use of a suitable registered drift retardant adjuvant and/or low drift nozzles (e.g. straight stream nozzles) is recommended. In the case of fixed-wing aircraft flying at a speed faster than 130 mph, the maximum deflection angle of the nozzles or spray stream, as measured from a horizontal straight backwards orientation may not exceed 30 degrees. In the case of slower flying fixed wing aircraft the maximum deflection angle, as described above, may not exceed 55 degrees.**
- Volume: A spray mixture volume of 30 litres 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 micron is recommended. Limit the production of fine droplets less than 150 micron (high drift and evaporation potential) to a minimum.
- Flying height: Maintain the height of the spray boom at 2 to 3 meters above the target. Do not spray when aircraft dives, is in a climb or when banking.
- Use suitable atomizing 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 atomizers 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 per hour.
- 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:
 - a) reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage),
 - b) 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 requirements will be met and that relevant data will be compiled in a logbook and kept for future reference.

APPLICATION RATES

Crop / Pest	Dosage rate	Remarks
IMPORTANT Refer to “USE RESTRICTIONS” above.		
<u>Apples, Pears and Grapevines</u>	2.7 kg/ha in 400 to 500 ℓ water OR 95 g/15 ℓ for spot treatment	Apply when weeds are young and actively growing. For control of Buckhorn plantain (<i>Plantago lanceolata</i>) in the Western Cape. Apply as a directed spray by knapsack sprayer only and avoid spray drift and fine droplets. Spray once after the flowering stage while fruitlets are still very small. Otherwise, apply a first application at green tip before the flowers appear, and a second after flowering while fruitlets are still very small.
<u>Apples, Pears and Grapevines</u>	<u>Early winter:</u> 1.6 kg/ha PLUS 1.5 ℓ SCAT® 360 SL <u>Late winter:</u> 2.2 kg/ha PLUS 2 ℓ SCAT® 360 SL	Apply when weeds are young and actively growing. Apply post-emergence to annual broadleaf weeds and certain perennial winter broadleaf weeds. Use a knapsack sprayer only and avoid spray drift and fine droplets. Apply before budburst and seven or more days after pruning and removal of green suckers.
<u>Grass pastures, Lawns and Turf</u> (established grass and pastures only)	2.1 to 2.8 kg/ha	Application of nitrogenous fertilizer, 2 to 3 weeks before spraying, is recommended. The dosage depends on the weed species present and the growth stage of the weeds. A repeat application may be necessary for lawns
<u>Sugarcane</u> (Plant and Ratoon cane)	3.5 to 4.7 kg/ha	<u>Pre-emergence to plant and ratoon cane:</u> Apply within a few days after planting or cutting and before the weeds emerge.

Crop / Pest	Dosage rate	Remarks
Wheat (dry land)	1.1 kg/ha	Apply between growth stages 7 (center double ridges enlarged) and 13 (awn of the top spikelets elongated) according to the list of growth stages for wheat drawn up by the ARC-Small Grain Institute, Bethlehem. Dosage depends on the growth stage of the weed.
	0.4 to 0.75 kg/ha PLUS 1.5 ℓ / ha Campatop 225 EC	Use the higher rate of MORTAR 750 WSG for difficult to control weeds. Apply within 14 days after good rain. Apply between growth stages 7 and 13 according to the list of growth stages issued by the ARC-Small Grain Centre, Bethlehem. Refer to the Campatop 225 EC label for list of additional weeds controlled, as well as USE RESTRICTIONS and DIRECTIONS FOR USE .
Barley	1.1 kg/ha	Apply when the crop has reached the 4-leaf stage (four (4) leaves on the main haulm with the sixth (6 th) leaf already visible).
	0.4 to 0.75 kg/ha PLUS 1.5 ℓ / ha Campatop 225 EC	Use the higher rate of MORTAR 750 WSG for difficult to control weeds. A Apply within 14 days after good rain. Apply between growth stages 7 and 13 according to the list of growth stages issued by the ARC-Small Grain Centre, Bethlehem. Refer to the Campatop 225 EC label for list of additional weeds controlled, as well as USE RESTRICTIONS and DIRECTIONS FOR USE .
Wheat and Barley (Pre-plant, post emergence burndown application for control of grass weeds and difficult to control broadleaf weeds)	0.5 kg/ha PLUS 1 kg/ha Glygran 710 SG PLUS 1 % Velocity® Drymax	Apply in at least 200 litres water per hectare as an overall application. Ensure thorough coverage and wetting of the weeds. Plant crop within 7 days of application, preferably within 1 to 3 days. Weeds must be actively growing and not under stress at the time of application.

WEED SPECIES NORMALLY CONTROLLED POST-EMERGENCE BY MORTAR 750 WSG:

<i>Bidens bipinnata</i>	Spanish blackjack
<i>Chenopodium album</i>	White goosefoot
<i>Erodium moschatum</i> *	Musk heron's bill*
<i>Plantago lanceolata</i>	Narrow-leaved ribwort
<i>Portulaca oleracea</i>	Purslane
<i>Raphanus raphanistrum</i>	Wild radish
<i>Tagetes minuta</i>	Tall khaki weed
<i>Vicia hirsuta</i>	Tiny purple vetch
<i>Vicia sativa</i>	Vetch
<i>Datura stramonium</i> **	Thorn apple

* - Variable control (80% to 90% weed control can be expected).

** - In the 2- to 3-leaf stage.

WEED SPECIES CONTROLLED POST-EMERGENCE BY MORTAR 750 WSG PLUS GLYGRAN 710 SG PLUS VELOCITY® DRYMAX:	
<i>Amaranthus hybridus</i>	Common pigweed
<i>Arctotheca calendula</i>	Cape Marigold
<i>Bidens bipinnata</i>	Spanish blackjack
<i>Chenopodium album</i>	White goosefoot
<i>Cenia turbinata</i>	Goose Daisy
<i>Echium plantagineum</i> (= <i>E. Lycopsis</i>)	Purple Echium
<i>Eleusine coracana</i> (subsp <i>africana</i>)	Goose grass
<i>Emex australis</i>	Spiny Emex
<i>Erodium moschatum</i> *	Musk heron's bill*
<i>Lolium spp</i> ***	Rye grass***
<i>Malva parviflora</i>	Small mallow
<i>Plantago lanceolata</i>	Narrow-leaved ribwort
<i>Polygonum aviculare</i>	Prostrate knotweed
<i>Portulaca oleracea</i>	Purslane
<i>Raphanus raphanistrum</i>	Wild radish
<i>Rumex acetosella</i>	Sheep sorrel
<i>Schkuhria pinnata</i>	Dwarf marigold
<i>Tagetes minuta</i>	Tall khaki weed
<i>Vicia hirsuta</i>	Tiny purple vetch
<i>Vicia sativa</i>	Vetch
<i>Datura stramonium</i> **	Thorn apple

* - Variable control (80 % to 90 % weed control can be expected).

** - In the 2- to 3-leaf stage.

*** Certain *Lolium* spp. populations may be resistant to glyphosate and will not be controlled effectively.

The following products mentioned in this label may be replaced with equivalent products:

- **CAMPATOP 225 EC** (L 5320 / N-AR 1115) = **BROMOXYNIL 225 EC** (L 4466 / W 130530) = **BROMOXYNIL 225 EC** (L 8340) and
- **SCAT® 360 SL** (L 5716 / W 130453) = **SLASH 360 SL** (L 7811 / N-AR 1087) = **PANGA 360 SL** (L 7812) = **GLYPHOSATE 360 SL** (L 8128).
- **VELOCITY® DRYMAX** (L 9454 / N-AR 1528 / W 130995) = **AMS-GRANULE** (L 9610) and
- **GLYGRAN 710 SG** (L 8449 / W 130085) = **SLASH 710 SG** (L 8450)

SLASH 360 SL, SLASH 710 SG and/en **BROMOXYNIL 225 EC** are registered products of / is geregistreeerde produkte van **UNIVERSAL CROP PROTECTION (PTY) LTD.**

SCAT® 360 SL is a registered trademark of / is 'n geregistreeerde handelsmerk van **UNIVERSAL CROP PROTECTION (PTY) LTD.**

BROMOXYNIL 225 EC and/en **GLYPHOSATE 360 SL** are registered products of / is geregistreeerde produkte van **CROP ASURE (PTY) LTD.**

VELOCITY® DRYMAX is a registered trademark of / is 'n geregistreeerde handelsmerk van **VILLA CROP PROTECTION (PTY) LTD.**

CAMPATOP 225 EC, PANGA 360 SL, GLYGRAN 710 SG and/en **AMS-GRANULE** are registered products of / is geregistreeerde produkte van **VILLA CROP PROTECTION (PTY) LTD.**