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Stomp® Aqua

A capsule suspension herbicide for pre-emergence control of a range of grass weeds including *Rottboellia* (Mulungwe) and certain annual broad-leaved weeds in maize, wheat, barley, soyabeans, cotton, sugarcane and vegetables.

GROUP	K1	HERBICIDE
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Active ingredients:
Pendimethalin 455g/L

HAZARD STATEMENT

May cause an allergic skin reaction.
Very toxic to aquatic life.
To avoid risks to human health and the environment, follow the instructions for use.

PRECAUTIONARY STATEMENTS

Wear protective gloves and face protection.
Keep out of reach of children.

Imported by:

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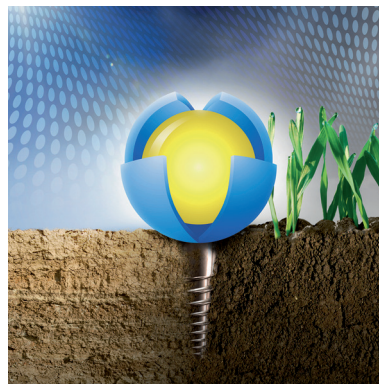
Manufactured by:

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ZEMA PRODUCT NUMBER: .

NET VOLUME:

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WARNING



READ THE LABEL BEFORE USING THE PRODUCT

WARRANTY: Although this remedy has been 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 climatic- and storage conditions; quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the disease, weed or pest, 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 the failure of the user to follow the label instructions or the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

WARNINGS:

- Harmful when swallowed, inhaled or absorbed by skin.
- Keep locked up out of reach of children, uninformed persons and animals.
- Keep in the original container and store in a cool dry place away from food, drink and animal feeds.
- May cause irritation in contact with skin and eyes; avoid contact, ingestion and inhalation.
- Toxic to fish, aquatic organisms and water plants, may cause long term adverse effects in the aquatic environment.
- Prolonged cool and wet weather conditions, excessive irrigation, infection of seed and young seedlings by soil or seed borne diseases, seeds planted too deep or too shallow etc. May lead to crop damage. Where applicable, seeds should therefore preferably be treated with a suitable seed treatment fungicide.
- Shallow planted seeds may be affected. Ensure all seeds are planted at least 3.2cm deep.
- Do not eat drink or smoke when handling or using this product
- This material and its container must be disposed off in a safe way.
- In case of a spillage use appropriate containment to avoid environmental contamination.
- Wear suitable protective clothing to avoid skin contact.
- Stomp® Aqua contains pendimethalin. It may cause an allergic reaction.

Aerial Application

Notify and warn all inhabitants in the immediate area of the intended application and issue necessary warnings. Do not spray over adjacent areas or on water.

PRECAUTIONS:

Operator protection

- Wear suitable protective clothing (overalls, boots and suitable gloves) when handling the concentrate and/or when applying the product.
- Wash protective clothing thoroughly after use, especially the insides of gloves
- Should there be accidental contact with Stomp® Aqua wash immediately with running clean water and soap.
- Wash hand and exposed skin after work and before meals.
- Avoid all contact by mouth.
- Do not breathe spray.

ENVIRONMENTAL PROTECTION:

- Care should be taken to avoid damage by drift onto plants outside the target area.
- Do not contaminate water with the product or its container.
- Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads).
- To protect aquatic organisms leave an unsprayed buffer zone to surface water bodies in line of about 10m to water bodies.

STORAGE AND DISPOSAL:

Triple rinse empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow to drain 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 10% of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner.

Concentrated or diluted Stomp® Aqua may stain. Staining is minimised or completely removed if skin and clothes are washed immediately. Clean machinery spraying equipment immediately after use with a spray tank cleaner.

FIRST AID MEASURES

Remove contaminated clothing and seek medical advice.

Have the product label/container with you when calling the Doctor.

First Aid providers must wear protective clothing to prevent exposure.

General advice: Avoid contact with the skin, eyes and clothing.

Take off immediately all contaminated clothing.

If difficulties occur: Obtain medical attention.

Show container, label and/or safety data sheet to physician.

If inhaled: Keep patient calm, remove to fresh air and seek medical attention.

On skin contact: After contact with skin, wash immediately with plenty of water and soap. If irritation develops, seek medical attention.

On contact with eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion: Do not induce vomiting unless told to by a poison control center or doctor.

Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

Rinse mouth immediately and then drink plenty of water, seek medical attention.

Note to physician: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

Administer corticosteroid dose aerosol to prevent pulmonary odema.

DIRECTIONS FOR USE: USE ONLY AS DIRECTED

USE RESTRICTIONS

1. Efficacy

- Some soil moisture must be present for Stomp® Aqua to be activated. Best results will be obtained if rainfall occurs within seven days of application.
- Residual control may be reduced:

- under prolonged dry conditions
- on soils with a high Kd factor
- where organic matter exceeds 6%
- where ash content is high
- Do not disturb the soil after Stomp® Aqua has been applied as this will result in reduced weed control.
- Where cultural techniques which encourage the build up of organic residues in the surface soil are practised for a number of seasons, the effectiveness of residual herbicides may be reduced. In such circumstances periodic ploughing is recommended to disperse residues into a greater volume of soil.

2. Soil types

- Stomp® Aqua may be used on all mineral soil types.
- Do not use on soils with more than 10% organic matter.
- On stony or gravely soils there is a risk of crop damage, especially if heavy rain falls soon after application.
- Do not use on water logged soil or soils prone to water logging.
- Do not apply on very light sandy soils with less 10% clay.

3. Seedbed preparation

- Trash and straw should be incorporated evenly during seedbed preparation.
- Seedbed must have a fine, firm tilth. Consolidate loose or cloddy seedbeds before use.
- Following pre-emergence applications, unconsolidated clods (especially if larger than 75 mm (3 inches) diameter) may reduce the level of weed control and cause seed to be inadequately covered, which could result in crop damage.

4. Crop safety

- Extreme care should be taken to avoid damage by drift onto plants outside the target area.
- Do not apply Stomp® Aqua to crops suffering from stress, which may be caused for example by pests, disease, water logging, poor seedbed conditions or previous chemical treatment.
- Seed should be covered with a minimum of 3.2cm of settled soil (2.5cm for peas and sunflowers, 5cm for maize).
- Shallow drilled crops should be treated post-emergence.
- Do not soil incorporate.
- Do not spray under sown crops.
- Do not under sow crops treated with Stomp® Aqua.
- Stomp® Aqua should not be used on protected crops, or in greenhouses.
- Before using Stomp® Aqua on crops to be processed please consult your processor.

MIXING INSTRUCTIONS:

Fill the spray tank to about $\frac{3}{4}$ full with clean water. Shake the Stomp® Aqua container well. Measure the required volume of Stomp® Aqua and add it to the spray tank and start agitating to mix the Stomp® Aqua and the water. Then fill up the spray tank to the required level while maintain the agitation to ensure thorough mixing of the spray mixture before spraying starts. Maintain the agitation during spraying. The prepared mixture must not be left in the tank for long periods e.g. overnight.

COMPATIBILITY:

Stomp® Aqua may be applied in a tank mix or a sequentially with other herbicides registered for use in a given crop. Always read the companion product label(s) and apply within label conditions for each

product. Refer to the companion label for weeds controlled in addition to Stomp® Aqua alone. Always perform a mixing test to check the compatibility of Stomp® Aqua with all potential tank mix partners.

Stomp® Aqua can be tank mixed with Atrazine, Hammer® and OptillTM.

GROUND APPLICATION:

- Use about 150-250L/ha. Higher volumes of water will improve coverage. The sprayer should be checked and calibrated properly.
- Use pressure of at least 210Kpa.
- The boom must be 60cm or less above the target surface. Use flat fan nozzles.
- Apply only when the potential for drift to adjacent non target areas is minimal (e.g. wind speed is less than 15km/h).
- Keep at least 5 metres isolation distance between the area being sprayed and non target sensitive crops.

AERIAL APPLICATION:

Aerial application of Stomp® Aqua may only be done by a qualified and registered operator using correctly calibrated registered aircraft. Ensure that the spray mixture is evenly distributed over the target area and drift is restricted to a minimum. It is therefore essential that the following measures must be followed to reduce potential drift to non target areas and achieve good spray results.

- Volume: use more than 30 litres of water per hectare. The product has not been tested at lower volume rates, the producer/registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied at lower volume than the recommended above.
- Droplet coverage: the number of droplets that must be recovered per cm² must be 20-30 pre-emergent and 35-45 post-emergent.
- Droplet size: a droplet spectrum with a VMD of 350 to 400 micron is recommended. Limit the production of droplets less than 150 micron.
- The distance of the outermost nozzles on the boom should not exceed $\frac{3}{4}$ of the length of the fixed wing span or 90% of the rotor blade diameter to prevent droplets from entering the wingtip vortices.
- Use low drift nozzles. Do not use nozzles producing mist droplet spray.
- Nozzles must always point backward parallel to the air stream
- Flying Height: the aircraft must spray at 3 metres above the crop canopy, but do not compromise aircraft safety, at wind speed of 0-8km/h and at a height of 2 metres at wind speeds of 9-15km/h and stop spraying if the wind speed is above 15km/h. Do not apply when the aeroplane dives or climbs.
- Ensure an isolation distance of at least 15 meters between the area being sprayed and non target sensitive crops.
- Do not apply during periods of temperature inversions or when it is very hot.
- The temperature difference between the wet and dry bulb thermometers of a whirling hygrometer should not exceed 80°C.
- Ensure the pilot knows exactly which fields to spray.

SPRAYER CLEANING:

After spraying thoroughly clean and flush out application machinery with a minimum of three rinses, to ensure that all traces of product are removed to avoid sticking of dried material to spray tank walls or spray lines, etc.

APPLICATION RATES:

Crops	Maximum Individual Dose	Maximum Number of Treatments	Latest Time of Application
Maize	3.0L/ha	One per crop	Before 4th leaf stage.
Soyabeans	3.0L/ha	One per crop	Pre emergence, seed should be planted at a uniform depth of at least 2.5cm.
Sugarcane	3.5L/ha	One per crop	Pre emergence to weeds, in plant and ratoon cane.
Wheat, Barley	3.0L/ha	One per crop	Before leaf sheath erect stage (crop GS 30).
Cotton	3.0L/ha	One per crop	Before the cotton emerges.
Onion	3.0L/ha	One per crop	One week after transplanting, but before the weeds emerges.

WEEDS CONTROLLED:

All weed susceptibility ratings in the table below are for applications made pre-emergence of the weeds.

Annual grass weeds controlled by Stomp® Aqua

Scientific Name	Common Name
<i>Brachiaria brizantha</i>	Signal grass
<i>Chloris virgata</i>	Feather top chloris
<i>Chloris pycnothrix</i>	Spiderweb chloris
<i>Digitaria sanguinalis</i>	Crab finger grass
<i>Echinochloa colonum</i>	Jungle grass
<i>Echinochloa crus-galli</i>	Barnyardgrass
<i>Eleusine indica</i>	Goosegrass
<i>Eragrostis</i> spp.	Lovegrass
<i>Panicum schinzii</i>	Sweet grass
<i>Rottboellia conchinchinensis</i>	Sweet buffalo grass (Mulungwe)
<i>Setaria verticillata</i>	Guinea fowl grass
<i>Tragus racemosus</i>	Bur bristle grass
<i>Urochloa panicoides</i>	Garden urochloa

Annual broadleaf weeds controlled by Stomp® Aqua

Scientific Name	Common Name
Amaranthus hybridus	Pigweed
Amaranthus spinosus	Red pigweed
Amaranthus thurnbergii	Thorny pigweed
Chenopodium album	White goosefoot
Portulaca oleracea	Common purslane
Hibiscus meeusei	Wild cotton
Richardia scarbra	Mexican clover
Tribulus terrestris	Devil's thorn
Solanum nigrum	Black nightshade

CROP SPECIFIC INFORMATION:

Maize

Rate	3.0L/ha of Stomp® Aqua
Water volume	150 to 200L/ha
Timing	Forage and grain maize: pre-emergence.
Notes	Do not use on sweet corn or maize grown for seed. Seed must be covered by a minimum of 5cm of settled soil. The use of Stomp® Aqua may affect the full development of crown roots which function only to anchor the plant. This has no effect on the yield of maize. If application is followed by a period of dry conditions or in situations where very heavy populations of weeds occur, a sequence of Stomp® Aqua and a product applied post-emergence may be necessary.

Wheat and Barley

Rate	3.0L/ha of Stomp® Aqua
Water volume	150 to 200L/ha
Timing	Pre-emergence of the crop to before leaf sheath erect stage, (GS 30).
Notes	Seed must be covered with a minimum of 3.2cm of settled soil. Only treat shallow drilled crops post-emergence.

Soyabeans

Rate	3.0L/ha of Stomp® Aqua
Water volume	150 to 200L/ha
Timing	Pre-emergence of the crop. Apply Stomp® Aqua as soon as possible after sowing and final seedbed preparation. Do not apply post-emergence as serious crop injury can occur.
Notes	Seed must be covered with a minimum of 3.0cm of settled soil.

Potatoes

Rate	3.0L/ha of Stomp® Aqua
Water volume	150 to 200L/ha
Timing	Pre-emergence of the crop. Apply as soon as possible after planting and final ridging up. Loose structured ridges must be allowed time for settlement before application. Do not apply later than 7 days before emergence.
Notes	Do not use on sandy, gravelly or stony soils.

Sugarcane

Dose rate	3.5L/ha of Stomp® Aqua
Water volume	150 to 200L/ha
Timing	Pre-emergence of the weeds
Notes	Plant cane: Apply within two days of planting. Ratoon cane: Apply not later than seven days after harvest.

Cotton

Dose rate	3.0L/ha of Stomp® Aqua
Water volume	150 to 200L/ha
Timing	Pre-planting and pre-emergence
Notes	Seed must be covered with minimum of 2.5cm of settled soil. Planting furrows must be completely closed after planting, as heavy rain can wash soil into furrow, concentrating Stomp® Aqua close to the seed which may lead to crop damage. Do not use on soils with less than 20% of the clay content.

FOLLOW UP CROPS:

Do not plant or replant any other crop other than Stomp® Aqua registered ones, for a period of one year after application of Stomp® Aqua. Tobacco may be replanted at any time after Stomp® Aqua application, provided the soil has not been reworked.

SEQUENTIAL TREATMENTS:

Stomp® Aqua may be used in sequence with any other approved product. Leave a minimum interval of 24 hours unless longer is specified on the label.