

BEFORE USING THIS PRODUCT, READ THE LABEL CAREFULLY. KEEP OUT OF REACH OF CHILDREN AND ANIMALS.

Adjuvant



AQUABUFF PLUS

Reg. No. L9210 Act No. 36 of 1947

3.28/07/2022 – Oct2023

A pH buffer with wetting and spreading properties for use with alkaline-sensitive agro-chemicals or agro-chemicals that require the use of a buffer.

GROUP

ADJUVANT

ACTIVE INGREDIENTS

mixed organic acid buffer system and alcohol ethoxylate surfactant 585 g/l



DANGER

Hazard statements:

Flammable liquid and vapour.
Harmful if swallowed.
Causes severe skin burns and eye damage.
Causes serious eye irritation.
Toxic to aquatic life.

Precautionary statements:

Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
Keep container tightly closed.



villa



UN Number: 2924

Registration holder: UNIVERSAL CROP PROTECTION (PTY) LTD.

Co. Reg. No. 1983/008184/07

P.O. Box 801, Kempton Park, 1620

Tel. (011) 396 2233

Website: www.villacrop.co.za

24 HR EMERGENCY NUMBERS:

Griffon Poison Centre: +27 82 446 8946

24 HR Transport / Spill Emergency no: (Hazcall24) +27 86 044 4411

(Client: Villa Crop Protection)

DIRECTIONS FOR USE ENCLOSED

Batch Number:

Date of Manufacture:

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

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WARNINGS**Hazard statements:**

Flammable liquid and vapour.
Harmful if swallowed.
Causes severe skin burns and eye damage.
Causes serious eye irritation.
Toxic to aquatic life.

- Observe all warnings that apply to the product(s) with which **AQUABUFF PLUS** is to be used.
- Store in a cool, dry, well-ventilated place away from food, feeds, seed, fertilizers and other agricultural remedies.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter treated area until spray deposit has dried unless wearing protective clothing.

Although this remedy has been extensively tested under a wide variety of conditions, the registration holder does not warrant that it will be efficacious, 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, 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 for any reason whatsoever or for lack of performance of the remedy concerned, due to failure of the user to follow the 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:**

Do not breathe dusts or mists.
Wash hands and face thoroughly after handling.
Avoid release to the environment.
Wear impervious rubber gloves and boots, protective clothing, and chemical safety goggles.
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.
IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Get emergency medical help immediately.
If eye irritation persists: Get medical help.

- Observe all precautions that apply to the product(s) with which **AQUABUFF PLUS** is to be used.
- Do not eat, drink or smoke whilst mixing or applying the product or before washing hands and face and change of clothing.
- Clean applicator after use and dispose of wash water where it will not contaminate crops, rivers, dams and grazing.

- **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 empty container three times in succession with one quarter of the container a volume fresh and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler (www.croplife.co.za). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.
- Soak spillage of concentrate with a strong washing soda solution and wash thoroughly with plenty of water.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

Relevant hazardous components	
Acetic acid	39 g/l
Citric acid	15 g/l
Ammonium hydroxide	20 g/l
Alkyl polyethylene glycol ether	10 g/l

FIRST AID TREATMENT

- **Skin:** Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Do not rub the skin. Persons who become sensitized may require specialized medical management. Immediately seek medical advice.
- **Eyes:** Flush eyes with clean water for at least 15 – 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention.
- **Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.
- **Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Obtain medical attention immediately. Qualified medical personnel should perform administration of oxygen. If the person is alert, rinse mouth thoroughly with water and give person large volumes of water or milk to drink. When vomiting occurs, keep head lower than hips to prevent aspiration.

DIRECTIONS FOR USE: Use only as directed.

Product information:

- The pH of the spray water influences the stability of agro-chemicals. High pH values can cause “alkaline hydrolysis” which is the degradation of the agro-chemical at high pH values. This means that a measurable amount of product can decompose to an inactive form.
- For most agro-chemicals, the optimum pH range is 4 to 6 (slightly acidic).
- **AQUABUFF PLUS** ensures that the pH of the tank mix is between pH 4.0 and 6.0 (typically 4.5 to 5.5).
- Unlike when using concentrated acids to correct alkaline waters, there is no danger of very low pH values occurring if an overdose of **AQUABUFF PLUS** is administered. **AQUABUFF PLUS** is also a buffer which means that it will buffer the pH at the required range and will resist a change in pH.
- **AQUABUFF PLUS** contains a surfactant and also has limited wetting and spreading properties.

Compatibility:

- The acidification of water for use with certain copper and lime sprays (e.g. Lime sulphur), is **NOT** recommended.
- Please consult individual agro-chemical labels for specific buffering requirements.
- Mix **AQUABUFF PLUS** with the spray water before adding chemicals.

APPLICATION RATES

Product	Dosage Rate**	Remarks
<u>Agro-chemicals that require a spray mixture pH of 4 to 6</u>	0.04 % to 0.1 % (40 to 100 ml) AQUABUFF PLUS per 100 l spray mixture	Consult the specific agro-chemical product label for the full details regarding WARNINGS and DIRECTIONS FOR USE .

**** - The above-mentioned rates will be sufficient for the vast majority of spray carrier water in South Africa. In certain extreme cases, the buffering capacity of spray carrier water may be of such a nature that higher AQUABUFF PLUS rates may be required. If a water analysis is available of such water, Villa Crop Protection (Pty) Ltd. can recommend a specific rate that may be higher than 0.1 %. Please consult your Villa Crop Protection (Pty) Ltd. representative for more information and rate selection.**