

**A wetter-spreader, acidifier and pH indicator for use as a penetration, buffering and compatibility aid with alkaline sensitive systemic and contact pesticides and foliar feeds.**

- BLADBUFF 5 is an adjuvant containing a combination of nonionic and anionic components and is suitable for ground and aerial applications.
- Reduces and buffers the pH of the spray solution.
- Contains a unique pH indicator that turns the colour of the spray water pink when the optimum pH range of 4.5 - 5.5 has been reached.
- Has excellent wetting spreading properties thereby helping to reduce the possibility of chemical damage to the plant.
- Improves cuticular penetration and increases plant uptake of systemic pesticides and foliar nutrient sprays.
- Prevents rapid hydrolysis (degradation) of alkaline sensitive pesticides such as organo-phosphates, carbamates, synthetic pyrethroids and chlorinated hydro-carbons.
- Improves the compatibility of emulsifiable concentrates with foliar nutrients.

Contains nonionic, anionic components

ACTIVE INGREDIENTS: 600g/l

WETTING AGENTS, SPREADING AGENTS, ACID,  
pH INDICATOR

BATCH NO.

DATE OF MANUFACTURE

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Manufactured by



P.O. Box/Posbus 87005,  
Houghton 2041 Tvl.

DISTRIBUTED BY:



**WATER SOLUBLE ADJUVANT**

A Wetter-Spreader, Acidifier and pH Indicator

**DIRECTIONS FOR USE:**

The pH and hardness of spray solutions may have a marked effect on the ultimate performance of systemic and alkaline-sensitive pesticides and foliar applied nutrients. Such pesticides and foliar nutrients generally perform best at a pH ranging from 4.5 to 5.5.

BLADBUFF 5 can be used to ensure optimum results by adjusting spraywater to the required pH. BLADBUFF 5 contains a pH sensitive indicator which changes the colour of spray water to either a shade of pink or red when the optimum pH range of 4.5-5.5 is reached.

Soft water requires a low concentration of BLADBUFF 5 and turns pink immediately upon reaching the desired pH. Hard water on the other hand needs a higher concentration of BLADBUFF 5 and in this instance a gradual colour change from yellow to orange and finally a deep pink colour (pH 4.5-5.5) will be observed.

The following table serves as an indication of the quantity of BLADBUFF 5 required to adjust waters of different hardness to the desired pH range of 4.5-5.5.

WATER HARDNESS RATING	*APPLICATION RATE ml/100l WATER
SOFT	40-50
MEDIUM	50-60
MEDIUM HARD	100-120
HARD	180-200
VERY HARD	220

\*If the desired colour change is not observed after adding the selected quantity of BLADBUFF 5 the optimum pH range has not yet been reached. Continue adding BLADBUFF 5 in small quantities at a rate of 10 ml/100 l water (with constant agitation) until the correct shade is obtained.

N.B. Always mix BLADBUFF 5 thoroughly with water first before adding pesticides or foliar feeds. A routine check on the pH after addition of the required rate of BLADBUFF 5 is advisable.

**PRECAUTIONS:**

Avoid prolonged contact with concentrate. Eye irritation may be caused. In case of contact with eyes flush immediately with water for at least 15 minutes. Prevent contamination of eating utensils, food, drinking water and feeds. Destroy empty container.

**WARNINGS:**

Keep out of reach of children and store away from food and feedstuff. BLADBUFF 5 is corrosive and should not be stored in metal containers.

Although this adjuvant 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 climatic and storage conditions: Quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the pest or diseases against the pesticide used 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 adjuvant 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.