

AGRI BUFFA®

430g/L Phosphate Esters, 100g/L Polyalkalene Oxide



Acidifying biodegradable spray adjuvant now with pH indicator for penetrating and aiding compatibility

BENEFITS OF AGRI BUFFA®

ACIDIFYING:

- AGRI BUFFA® has a pH indicator (see colour indicator guide overleaf) which assists the grower to achieve the desired pH for the nutrient or pesticide that is being added.
- AGRI BUFFA® neutralises the excess hydroxyl ions (OH-) and dissolved salts in water. The net effect is the reduction of pH creating optimal conditions for the spray chemical. AGRI BUFFA can be applied by ground or aerially.

BUFFERING:

- AGRI BUFFA® will neutralise the dissolved salts that inhibit the water's ability to change pH. This in effect softens the water and helps overcome some phytotoxicity problems. (See rates guide overleaf).

WETTING/SPREADING/PENETRATING:

- AGRI BUFFA® acts as a wetting agent and reduces surface tension. It also acts as a penetrant by disturbing the leaf's waxy layer and driving chemicals through this natural layer. The result is a faster and more efficient uptake and response from spray chemicals.

WATER QUALITY AND ALKALINITY

The quality and physical properties of water have a direct influence on the performance of many pesticides. High levels of dissolved salts can keep alkaline water buffered at a high pH which may adversely affect some chemicals. In some cases, a direct reaction occurs causing a complete breakdown known as alkaline hydrolysis.

WHAT IS ALKALINE HYDROLYSIS?

When the pH of water exceeds 7 the concentration of hydroxyl ions (OH-) becomes high enough to break down bonds within the chemical structure. This breakdown inhibits or nullifies the performance of some pesticides. These include herbicides, insecticides, fungicides and growth regulators. Hard water (above 200-250 ppm of dissolved ions) will also be improved by using AGRI BUFFA®. Hard water also causes a loss of activity in many chemicals.

AGRI BUFFA®

CHARACTERISTICS: pH: 1.0<; Specific Gravity: 1.13

AUS Analysis W/V%: 430g/L Phosphate esters of polyalkalene oxide derived of synthetic alcohols,
100g/L Polyalkalene oxide derived of synthetic alcohol

APPLICATION

Situation: Glyphosate / Roundup®. pH range 3.5 - 4. Rate 225 - 330 ml / 100 L water

Situation: Surfactant / Penetrant With herbicides and Systemic Fungicide. pH range 4.5 - 5.5. Rate 125 - 250ml/100 L water.

Water Hardness: Soft, Rate of AGRI BUFFA (ml/100L water): 35 - 55.

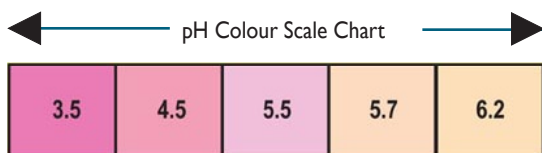
Water Hardness: Medium, Rate of AGRI BUFFA (ml/100L water): 55 - 65.

Water Hardness: Hard, Rate of AGRI BUFFA (ml/100L water): 65 - 180.

Water Hardness: Very Hard, Rate of AGRI BUFFA (ml/100L water): 180 - 250+.

General Instructions

AGRI BUFFA® Should be added to the spray tank to ensure that pH is in the optimum range. Fill tank to 3/4 with water and whilst agitating add sufficient AGRI BUFFA® to reach the required pH according to the pH Colour Scale Chart. Once the desired pH has been achieved, add other products and the remaining water.



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NOTE: The suggested rates of application of the Product are designed for typical Australian conditions and should be used as a guide only. Each farmer's climatic conditions, water quality, soil types, application processes and practices may differ and therefore necessitate corrections to ensure optimum results. Good agricultural practice requires that application be avoided under extreme weather conditions such as temperatures over 28°C, high humidity, frost, rain etc. It is recommended that when applying to a crop or area for the first time, or in combination with other chemicals, a small test area should be sprayed and observed prior to the total spray. Where possible, it is recommended that regular leaf tests are conducted to determine actual plant nutrient availability during each growth cycle. Soil tests at least once per year are essential.