MAXWELL

BALANCE

SPRAY TANK WATER CONDITIONER

Quick • Simple • Convenient • Effective

- ✓ Balances pH
- ✓ Lowers precipitation
- ✓ Test kit not required
- ✓ Improves tank mixing
- ✓ Visual indicator dye
- ✓ Chloride free formulation

Maxwell Balance contains a complexed blend of acidifiers which buffer pH thereby softening and conditioning spray tank water to overcome problems which occur due to local water quality or when tank mixing.

5 L

BALANCE

The performance of many pesticides and fertilisers is reduced if they are applied with water which is either;

- Alkaline
- Hard
- Brackish
- Contaminated with insoluble deposits and impurities

In such conditions pesticides and fertilisers that are prone to hydrolysis – the chemical breakdown of a compound due to a reaction with water – may chemically degrade or precipitate out of solution. This results in poor performance of those products due to the reduced availability of the active ingredients.

Maxwell Balance;

is particularly useful when multi-product tank-mixing is being undertaken. Should be used whenever the pH of the spray tank water is at pH 6.5 or above.

Is not suitable for use with products which are unstable in acid conditions. If in doubt consult the Maxwell Tank Mix Chart.

How to Use

The pH of the water being added to the spray tank determines the required dose rate of Maxwell Balance. The higher the pH the greater the quantity of Maxwell Balance required to acidify down to the correct pH.

Establishing a Dosage Rate

The pH of water will naturally vary from site to site. The first time Balance is used with a particular water source to fill the spray tank, you should establish an appropriate dosage rate for that water. You should use the Guideline Dosage Rate as a point of reference and adjust from there by following the calibration procedure.

Guideline Dosage Rate	0.05% of water volume
Which is equivalent to	0.5 ml per 1 L of water

Calibration Procedure

1 Add 1 L of the intended spray tank water into a clean measuring jug or measuring jar.

2 Using the supplied syringe; simply add 0.5 ml (Guideline Dosage Rate) of Maxwell Balance into the jug or measuring jar and gently agitate.

3 Observe the colour of the water and reference the below colour chart.

Translucent Pink	Red	Yellow
◄ pH 4.4	Maxwell Balance Original Colour	pH 6.2 ►
Tank water at correct pH		Tank water at incorrect pH

4 If the water does not turn translucent pink, continue to add incremental measured doses of Maxwell Balance to the 1 L of spray tank water contained in the jug or jar, until the correct colour is achieved.

Using the supplied syringe, you should add additional Maxwell Balance at a rate of 0.1 ml at a time.

Note: The intensity of colour is not important, only whether it is pink or yellow.

5 For every 0.1 ml of Maxwell Balance added this will increase the % of water volume by a factor of 0.01%. For example:

The Guideline Dosage Rate is 0.05% of volume which is equivalent to 0.5 ml per 1 L of water.

If you need to add two more incremental doses of 0.1 ml with the syringe this will equate to the actual dosage rate for the water source being calibrated to be 0.07% of water volume, which is equivalent to 0.7 ml per 1 L of water. This is referred to as the Water Source Dosage Rate.

6 Record the Water Source Dosage Rate for future reference.

Water Source Dosage Rate	
Enter here	Location/Water Source
Enter rate here	% of water volume
Enter rate here	ml per 1 L of water

7 The Water Source Dosage Rate should be used for all future tank fills utilising that water source.

8 **This calibration procedure need only be repeated should there be an alteration to the water source being used in the spray tank.**

Spray Tank Fill Procedure

1 Add approximately 1/3 of the total required volume of water to the spray tank.

2 For every litre of the intended spray tank water volume, add an amount of Maxwell Balance in accordance with the previously calibrated Water Source Dosage Rate.

For example: Water Source Dosage Rate = 0.7 ml per 1 L of water.
Spray tank water volume = 300 L of water.
0.7 ml × 300 L = 210 mL per 300 L spray tank

3 Add the pesticide or fertiliser to the spray tank.

4 Finally, top up the spray tank with the required amount of water to achieve the desired fill level.

Danger
Causes severe skin burns and eye damage.
Do not breathe mist/vapours/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
IF ON SKIN: Wash with plenty of water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Dispose of contents/container in accordance with local/regional/national/international regulations.
Product contains: Phosphoric acid
UN1805, PHOSPHORIC ACID, SOLUTION, 8, III, (E)
UN1805
Maxwell Amenity Ltd
Allscott Park, Allscott, Telford, Shropshire. TF6 5DY. UK
Tel: +44 (0)1952 897910

UFI CODE: 9S00-E0UK-W00K-CQC5

5 L