

# AgEssentials<sup>TM</sup> PH

## PH INDICATOR, ACIDIFIER, WATER CONDITIONING AGENT & SPREADER

AG ESSENTIALS pH is the only adjuvant that contains a built-in pH indicator, turning the spray water pink as soon as the optimum level of 4.5-5.5 is reached. It eliminates the need to test the water pH with equipment. This product counters the detrimental effects of both high pH and hard water on sensitive pesticides. Some chemicals sensitive to alkaline hydrolysis include: glyphosate, organophosphates, synthetic pyrethroids, carbamates, chlorinated hydrocarbons, and triazines. AG ESSENTIALS pH acts as a wetting and spreading agent resulting in an even film of spray over the leaf and better pesticide performance.

### THE ADVANTAGES OF AG ESSENTIALS PH

- Ensures optimum crop protection performance when the water quality is unknown
- Eliminates the need to test the water pH with any additional equipment
- Promotes even crop protection coverage for improved efficacy
- Reduces surface tension of the spray solution which results in more uniform wetting and spreading
- Designed for use with most fertilizers and crop protection products when used to label directions
- Slows drying and improves penetration
- APE/NPE Free

#### PRINCIPAL FUNCTIONING AGENTS:

A proprietary blend of alcohol ethoxylates and Water conditioning agents.....	80%
Constituents Ineffective as Spray Adjuvant .....	20%
Total .....	100%

#### APPLICATION AND USE

The correct volume of AG ESSENTIALS pH to be added to the spray water is indicated by the color pink at pH between 4.5 to 5.5.

**Soft Water:** A rapid color change occurs from milky white to pink when optimum pH is reached.

**Hard Water:** Color changes slowly from milky white to yellow to orange to pink when optimum pH is reached.



The following table serves as a guide to the volume required for different types of spray water.

Water Hardness	Total dissolved salts	Conductivity S/cm	Rate (fl oz) per 100 gal
Soft	0-100	0-200	5-6
Medium	100-200	200-300	6-7
Medium Hard	200-250	300-400	7-10
Hard	250-300	400-500	10-20
Very Hard	300-400	450-500	20-30
Extremely Hard	400+	500+	30+