



SPRAY ADDITIVE

SAFETY DATA SHEET

# AMPLIFY

BROADACRE



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**Amplify is a multi-functional spray adjuvant designed to reduce the pH of spray water and improve uptake by plants. It assists with the uptake of foliar nutrition by reducing surface tension and acidifying the spray solution for optimum uptake. It will soften hard water improving water quality to improve foliar uptake. It also increases droplet adherence to foliage. Amplify contains plant biostimulants to maximise uptake of the applied spray, allowing for improved absorption of the spray. It also contains wetters to improve the contact of the spray on the leaf and allow it to be most effectively absorbed.**

The modes of action of the different ingredients of Amplify are listed below:

## Cell Sensitizers

Cell Sensitizers have the ability to increase the permeability of the plant cell membrane, allowing the plant cell to absorb significantly more than it otherwise would.

## Fulvic Acid

Fulvic Acid is included for its ability to assist with the bio-degradation of chemicals once contact with the soil occurs. Fulvic Acid is a powerful microbial food and stimulant and the associated increase in microbial activity can help to break down chemical, thus reducing the binding properties of chemical on metals such as Manganese within the soil.

## Algae Foods

Carbohydrate sources are included, as some

chemicals can impact Algae (single-celled plants that live on the surface of the soil) populations. Algae's role on the soil surface is at the top of the biological food chain - it provides a food source for beneficial soil microbes. Mortality of Algae can reduce the food sources available to beneficial microbial populations, so adding a carbohydrate source to a spray replace some of that food source, filling the gap until the Algae recover.

Water conditioning agents are added to maximise water quality and effectiveness. The 3 way mode of action in amplify includes:

- Softeners – for removing minerals that affect spray quality
- pH adjusters – to buffer the spray water to 4 pH
- Coagulants and Flocculants – to ensure bicarbonates, carbonates and sediments are dropped from the solution.

## APPLICATION RATES

### Application Rates for Knockdown herbicides and Foliar nutrition

500mL to 1L /100L water. Use high rate where conditions for spraying are not optimal or larger hard to control weeds. If using Terrador herbicide an oil must be added for optimum control.



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## Application Rates for Reducing Drift

500mL to 1L/100L water. Check with your Agronomist for selecting nozzle size and best practice to reduce drift.

## Mixing

Half fill the spray tank with water and commence agitation. Add the required quantity of Amplify then add the recommended rate of spray chemical with foliar nutrition and biological product being added last, whilst continuing to agitate the spray mixture.

**Store in a cool place away from sunlight.  
Stir well before use.**

## TYPICAL ANALYSIS

Major Elements	(w/v%)
Surfactants	25%
Humectant	32%
Carbohydrate	10%
Nitrogen	5.5%

