

# GRAVITATE<sup>+</sup> 707

## SPRAY ADJUVANT

### Product Overview

Gravitate 707 Spray Adjuvant is a second generation acidifying and penetrating surfactant, specifically designed and manufactured for Australian conditions. Gravitate 707 includes the proven power of Hasten for superior weed leaf penetration and reduced driftable fines, resulting in more spray droplets hitting and penetrating into target weeds<sup>†</sup>.

Gravitate 707 offers a low odour for improved handling and a pH indicator, helping growers and spray operators to confirm the ideal pH in a tank mix.

### Product Description

Gravitate 707 is an acidifying and penetrating adjuvant for use with agrichemical products.

#### Wetting, Spreading and Penetrating

Gravitate 707 surfactant helps spray droplets

- Adhere to leaf surface
- Spread across leaf surface
- Penetrate into the target weed

#### Droplet Management

Gravitate 707 when applied with Glyphosate and 2,4-D products significantly reduced the amount of driftable fines (<150um) produced from hydraulic nozzles when compared with the wetting agent Surewet 1000 and was similar or better at reducing driftable fines when compared with the low drift adjuvants VC-700<sup>+</sup> and Deadsure<sup>+</sup>

#### The importance of managing pH

The acidifying nature of Gravitate 707 reduces the pH of most water to below 5, ideal for herbicides including Glyphosate.

To validate this ideal pH range, Gravitate 707 has a pH indicator in its formulation. The pH Indicator will change the tank mix to a pink/red colour at a pH range below 5.

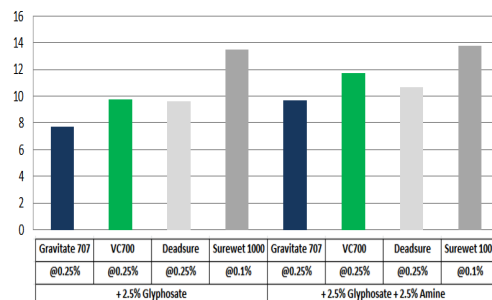
pH > 5.0



pH < 5.0

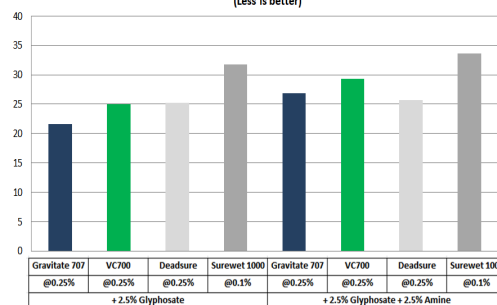
AIXR 11002 Percent Driftable Fines <150um

(Less is better)



XR 11003 Percent Driftable Fines <150um

(Less is better)



**Trial Details** - Uniquet — University Queensland Gatton

Under typical ground spray conditions - Wind speed 8m/s

- XR11003 @ 3 bar
- AIXR11002 @ 5 bar



† Trademark used under licence

\* Third Party Trademark

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### Suggestions for Use

#### Rates

For Glyphosate and Glyphosate mixes, use 250 – 500mL/100L to optimise the spray water pH and assist spreading and penetration and reduce off-target damage.

#### Mixing

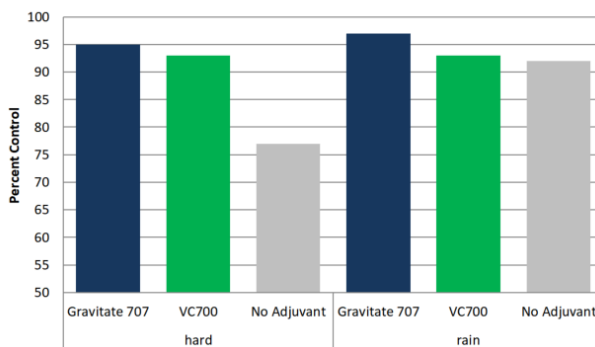
Half fill the spray tank with water and commence agitation. Add the required quantity of GRAVITATE 707 then add the recommended quantity of herbicide. Maintain agitation until completion of spraying.

When mixing dry granules, add granules to tank first and make sure they have completely dissolved before adding Gravitare 707

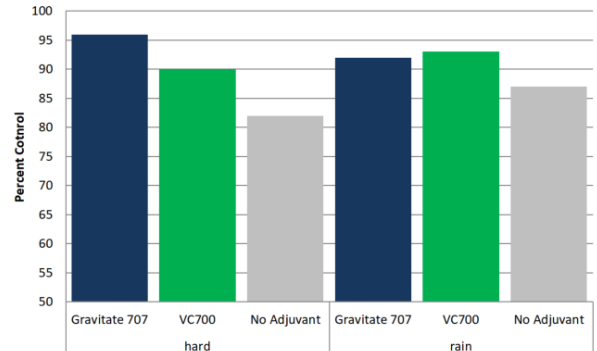
### Product Performance

Gravitare 707 has been trialled extensively, demonstrating effective weed control when compared to VC700. The Trials used average glyphosate rates with 0.25 and 0.5% Gravitare 707 in rain and hard water (500ppm).

Rye Grass Percent Control



Barley Grass Percent Control



Trial Details - Kalyx - Esperance WA, April 2020

Glyphosate rate 800 ml/Ha + Hammer 45 ml/ha Hard Water—500 ppm Adjuvants applied Gravitare 707 @ 0.25% VC700 @ 0.25%

Spray Date 23rd March 2020, Rye Grass at growth stage 12—31, Spring Barley at Growth stage 22 to 37