

Spray Adjuvants Guide 2007

The performance of any pesticide can be influenced by a number of variables, which include environmental conditions, properties of the water and condition of the target pest. Spray Adjuvants are a unique group of products that have the ability to greatly enhance the performance of any pesticide, especially when conditions are less than ideal or when product performance needs to be improved.

SPRAYMATE LI-700

Active constituent: 350 g/L Soyal phospholipids, 350 g/L Propionic acid

Spraymate LI-700 is a unique multi-purpose adjuvant. It decreases the pH of the spray solution making it more acidic. This prevents losses when using pesticides that are susceptible to breakdown by 'alkaline hydrolysis'.

Some agricultural chemicals, including the Group I Herbicides, are prone to this process, which leads to the irreversible destruction of the active ingredient.

LI-700 also has the ability to reduce the number of fine droplets and improve the uptake of weak acid herbicides (glyphosate).

Rate: 100 ml / 100 L to reduce pH or 250 - 500 ml / 100 L for improved spreading & penetration.



SPRAYMATE ACTIVATOR

Active constituent: 900 g/L Non-ionic surfactants

Spraymate Activator is a high quality adjuvant for use wherever a non-ionic surfactant is recommended on the pesticide label. The product works by reducing the surface tension of the spray solution, allowing the droplets to spread evenly over the target.

The high quality ingredients also act to increase surface uptake, which means it can be used a lower rates, reducing the application cost.

Rate: 50 - 150 ml / 100 L



NUTURF

DRIFTEX

Active constituent: 790 g/L Refined Canola Oil

Nuturf Driftex has been formulated with optimum level of refined canola oil and active surfactants to achieve enhanced rainfastness, deposition, penetration and improved efficacy with many pesticides when applied to turf.

The product will produce narrow droplet spectra around 100 microns for maximum efficacy with minimum losses due to drift.

Rate: 250 – 500 ml / 100 L for drift reduction & 1 L / 100 L for improved rainfastness and pesticide deposition.

SPRAYMATE

BOND

Active constituent: 450 g/L Synthetic latex, 100 g/L Surfactant

Spraymate Bond is a high quality sticker, deposition and retention agent for use with contact pesticides. Its elastic properties act to absorb energy from spray droplets as they impact the target, allowing for deposition with less shatter, bounce and runoff.

Spraymate Bond increases adherence of spray droplets by sticking them firmly to target surfaces, which protects pesticides from wash-off by rain or irrigation. It also acts to protect chemicals by reducing the rate of degradation.

Rate: 100 – 140 ml / 100 L

NUFARM

PULSE

Active constituent: 1,020 g/L Polyether modified polysiloxane

Pulse is an incredibly effective organosilicone-based spray additive. The technology dramatically reduces surface tension to improve the spread of spray droplets, in some cases by up to 13 times.

The superior coverage allows thorough penetration and translocation of certain herbicides used for hard to control brush and woody weeds. Trial work has shown that Pulse will significantly improve Roundup penetration (up to 10 times) and increase translocation (almost 4 times).

Rate: 30 - 200 ml / 100 L



General Application Guide

Nuturf Australia has the complete range of spray adjuvants to suit the pesticide and / or situation for any spray application. Below is a quick reference guide to assist with selecting the right product for every situation.

Adjuvant	Product / Situation						
	Contact Pesticides	Systemic Pesticides	Reduce pH	Maintain pH	Improve coverage	Improve Uptake	Reduce Drift
LI-700		X	X		X	X	X
Activator		X		X	X	X	
Driftex	X					X	X
Bond	X				X		
Pulse					X	X	
Liase			X				
Synertrrol					X	X	X

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