

## 666g/L Prosulfocarb and 333g/L Triallate

INFO SHEET

**KELPIE® PRO-CARB DUO TL** is a unique, patented co formulation pre-emergent herbicide for the superior control of annual ryegrass and suppression of barley grass and silver grass in Barley and Wheat crops.

**KELPIE® PRO-CARB DUO TL** is specifically formulated for heavier soil types and suited to high rainfall zones ensuring maximum control of annual grasses. This convenient co-formulation of 666g/L Prosulfocarb and 333g/L Triallate; assists with annual ryegrass resistance to Trifluralin.

**KELPIE® PRO-CARB DUO TL** is a short residual group J herbicide, soil applied, pre-emergent herbicide absorbed by the roots and shoots (coleoptile) of germinating seedlings promoting inhibition of meristematic growth. This product is a cost effective pre-emergent which provides increased efficacy against trifluralin resistant ryegrass. Competitor products focus on straight Prosulfocarb formulations (800g), while **KELPIE® PRO-CARB DUO TL** is currently the only co-formulation utilising Triallate.

### KELPIE® PRO-CARB DUO TL PRODUCT FEATURES



#### Unique Formulation

**KELPIE® PRO-CARB DUO TL** is a unique co-formulation of Prosulfocarb and Triallate offering increased efficacy for annual ryegrass resistant to Trifluralin.

#### Flexibility in Application Timing

**KELPIE® PRO-CARB DUO TL** Prosulfocarb/Triallate blend enhances flexibility in application timing due to its low moisture requirement to activate which suits dry sowing, dry post-seeding and optimal sowing situations.

#### Increased Control Efficacy, especially on Deep Germinating Weeds

**KELPIE® PRO-CARB DUO TL** is absorbed by both the roots and shoots (coleoptile) of germinating seedlings. This multi-site uptake reduces the chance of deep germinating weeds surviving and provides increased efficacy in situations where a moisture sown crop encounters dry conditions post sowing.

#### Compatibility

**KELPIE® PRO-CARB DUO TL** is compatible with:

- Glyphosate, 750 g/kg Chlorsulfuron, 750 g/kg triasulfuron, 750 g/kg sulfosulfuron, 480 g/L trifluralin.
- DO NOT tank mix with 2,4-D Amine.

Always refer to plant back restrictions on the label of the tank mix partner.

#### Proven Performance

A range of pre emergent herbicide trials were conducted in conjunction with Ag Partners SA. It was found;

- **KELPIE® PRO-CARB DUO TL** at 3000mL/ha provided significantly higher control over Volunteer Barley when compared with **SAKURA** and **BOXER GOLD**.
- **KELPIE® PRO-CARB DUO TL** at 2250-3000mL/ha provided equivalent or better control of Annual Ryegrass when competed with **SAKURA** at 118 g/ha.

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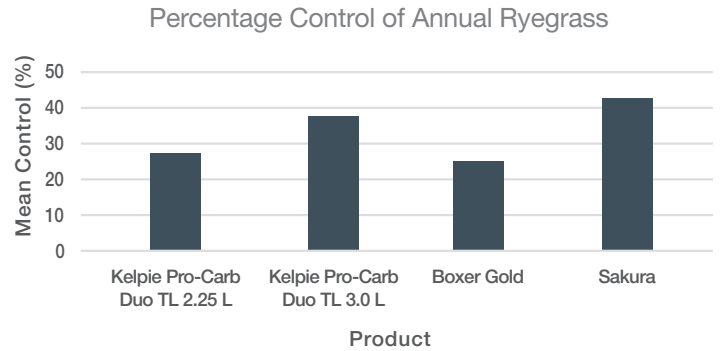
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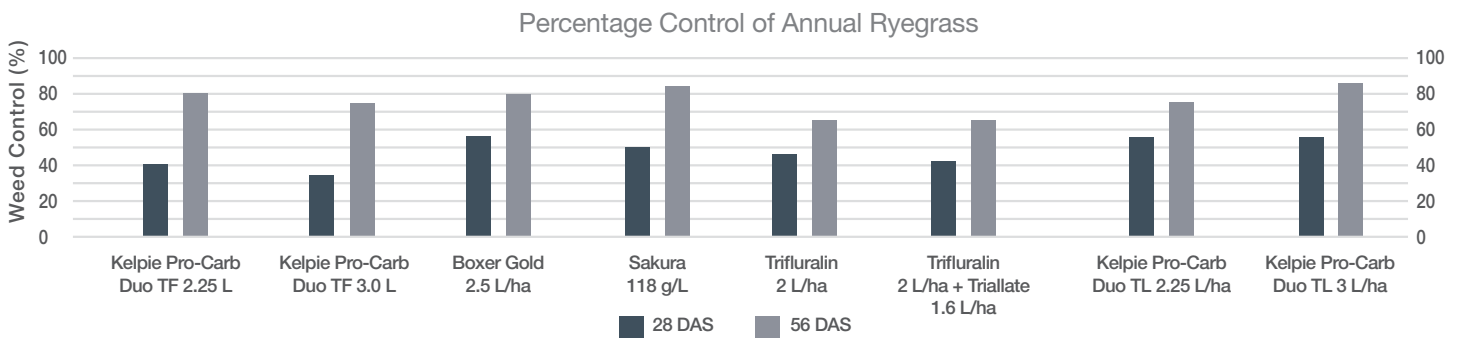
KELPIE PRO-CARB DUO TL provides a cost competitive alternative to Sakura; with two conveniently formulated actives there is less mixing of multiple chemistries.

Trials were conducted by Ag Grow Agronomy & Research in April 2017 at Beelbangera NSW. Weed control was assessed 28 and 56 days after sowing (DAS), with a ryegrass panicle counts taken at maturity, (Figures 2 and 3). Percent weed control was a measure of the weed control of each treatment in comparison to the untreated control.

KELPIE PRO-CARB DUO TL had the greatest effect on ryegrass emergence with an average of 25 plants/m.

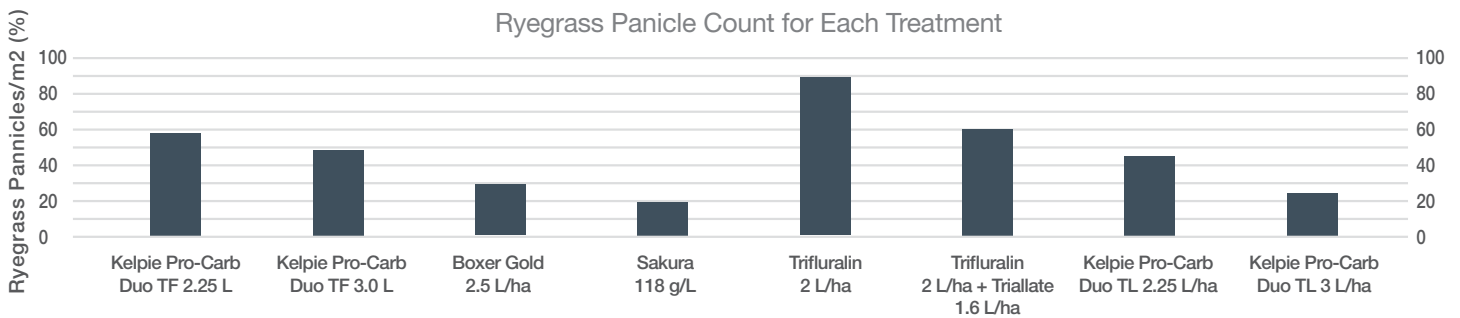


**Figure 1: Data Presented is the compilation of all trials conducted in Australia. 2015-18 Assuming mid-range application of Kelpie® Pro-Carb TL at 2.625L/ha across 12M ha.**



**Figure 2: Percentage weed control of Annual Ryegrass taken 28 days after sowing (DAS) and 56 days after sowing (DAS).**

Source: Ag Grow Agronomy & Research, 2017



**Figure 3: Ryegrass panicle count taken for each treatment at maturity.** Source: Ag Grow Agronomy & Research, 2017

## Soil Types and Solubility

KELPIE® PRO-CARB DUO TL is specifically formulated for heavier soil types and suited to high rainfall zones ensuring maximum control of annual grasses.

KELPIE® PRO-CARB DUO TL		Weed Pressure								
		L	M	H	L	M	H	L	M	H
Soil Type	Light	Green	Yellow	Yellow	Yellow	Yellow	Red	Yellow	Red	Red
	Medium	Green	Green	Yellow	Green	Yellow	Yellow	Green	Red	Red
	Heavy	Green	Green	Yellow	Green	Yellow	Yellow	Green	Red	Red
Rate 2.25 L/ha		Low			Medium			High		
Rainfall										

KELPIE® PRO-CARB DUO TL		Weed Pressure								
		L	M	H	L	M	H	L	M	H
Soil Type	Light	Green	Green	Yellow	Green	Green	Yellow	Green	Green	Yellow
	Medium	Green	Green	Green	Green	Green	Green	Green	Green	Yellow
	Heavy	Green	Green	Green	Green	Green	Green	Green	Green	Yellow
Rate 3 L/ha		Low			Medium			High		
Rainfall										

■ Best conditions for optimal performance
 ■ Some reduction in efficacy and/or crop safety
 ■ Efficacy and/or crop safety can be less optimal

Reference: <https://www.aggrowagronomy.com.au/wp-content/uploads/2018/01/Imtrade-Pre-emergent-Trial-2017.pdf>