

# 670g/L Prosulfocarb & 250g/L Trifluralin

**INFO SHEET** 

# A Unique Formulation Suitable for Use in Sandy Soils in Low Rainfall Zones.

**KELPIE® PRO-CARB DUO TF** is a high load pre-emergent herbicide registered for the control of Annual Ryegrass, Silver Grass & Wireweed, Suppression of Barley Grass and some broadleaf weeds in Wheat and Barley. A patented formulation that combines a high load of 670g Prosulfocarb with 250g/L Trifluralin to target grass weeds.

KELPIE® PRO-CARB DUO TF consists of both a group D & J Herbicide which inhibits fat synthesis and cell division/inhibitors of fatty acids. This conveinient co formulation delivers strong combined performance that provides an additional mode of action to combat resistance to Trifluralin.

KELPIE® PRO-CARB DUO TF is a short length residual, soil applied, pre-emergent herbicide that is absorbed by the roots and mesocotyl of germinating seedlings with inhibition of growth in the meristematic region of weed seedlings.

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



#### **Combats Resistance**

This formulation incorporates group D and J actives, which provide alternative modes of action and a robust resistance management strategy delivering better performance than a single active.

#### **Multiple absorption sites**

KELPIE® PRO-CARB DUO TF is absorbed by the roots and mesocotyl of the target weeds. The multiple absorption sites increase weed contact opportunities increasing efficacy and minimising weed escapes.

#### **Low Soil Mobility**

The low soil mobility of KELPIE® PRO-CARB DUO TF prevents downward leaching into the seeded band after incorporation by sowing and assists the active to remain in the weed seed contact zone.

# **Optimal Transport, Handling and Storage Characteristics**

The formulation, 670g/L Prosulfocarb & 250g/L Trifluralin, provides 92% active ingredient. This minimises non-active solvent inclusions as well as reducing drums, storage and handling compared to stand alone formulations.

## Compatibility

KELPIE® PRO-CARB DUO TF may be mixed in the spray tank with:

- Herbicides: 540g/L glyphosate (present as the potassium salt), 750g/kg triasulfuron, paraquat/diquat, 250g/L paraquat.
- Insecticides: 500g/L chlorpyrifos.

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

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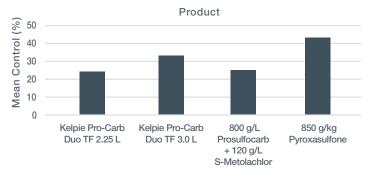


#### **Solubility**

Trifluralin has low water solubility and strongly binds to organic matter in the soil. This means the active has a low soil mobility and will generally not move far from where it was applied making KELPIE® PRO-CARB DUO TF suitable to sandy soils due to its low leaching capacity.

#### **Trials**

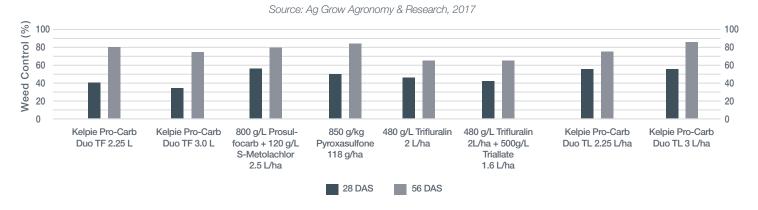
Figure 1: Percentage Control of Annual Ryegrass. Data presented is the compilation of all trial conducted in Australia by Ag Partners SA. 2015-18.



Preliminary 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. Percent weed control was a measure of the weed control of each treatment in comparison to the untreated control.

KELPIE® PRO-CARB DUO TF showed no increase in efficacy by increasing the rate from 2.25L to 3L/ha. It provided the similar level of control as 2.5L/ha of Boxer Gold® and KELPIE® PRO-CARB DUO TL at 2.25L/ha.

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



**References;** https://www.aggrowagronomy.com.au/wp-content/uploads/2018/01/Imtrade-Pre-emergent-Trial-2017.pdf https://grdc.com.au/resources-and-publications/groundcover/ground-cover-issue-116-may-june-2015/water-solubility-key-to-effective-pre-emergent

