switch AG fertilisers

TECHNICAL PRODUCT GUIDE

PROACTIV

ACTIVATE THE SOIL + UNLOCK PLANT POTENTIAL

Activate the soil and unlock plant potential: a biological soil and plant performance product for Microsoil Liquid Fertilisers programs.

Prepared for: Switch Ag
Product focus: Soil and foliar biological nutrition across broadacre, pasture, cotton and viticulture systems.
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EXECUTIVE SUMMARY

ProActiv is a highly active biological formulation designed to support soil health, nutrient availability, root development and plant performance. It is part of the Microsoil Liquid Fertilisers range and is made by Switch Ag in Cowra, NSW.

ProActiv is built around one idea: activate the soil and unlock plant potential. It works on the relationship between the soil and the plant, using organic acid chelation, active biology and amino acids to support nutrient availability and uptake from the roots through to the leaf.

ProActiv can be applied to the soil at planting or through fertigation and irrigation, or as a foliar application at key periods of temperature stress and alongside nutrient foliar programs. It is compatible with tech grade fertilisers and most pesticides. ProActiv should be positioned as a biological support within a complete fertility program. It does not replace fertiliser.

Why ProActiv Matters

- **Soil-Plant Relationship:** ProActiv activates the soil-plant relationship and unlocks the biological potential of the soil.
- **Root Development:** Auxin-rich kelp added to stimulate germination and root development.
- **Nutrient Availability:** Enhances nutrient availability and uptake.
- **Plant Health:** Reduces fungal disease pressure. Amino acids support stress mitigation and plant health.
- **Compatibility:** Compatible with tech grade fertilisers and most pesticides.

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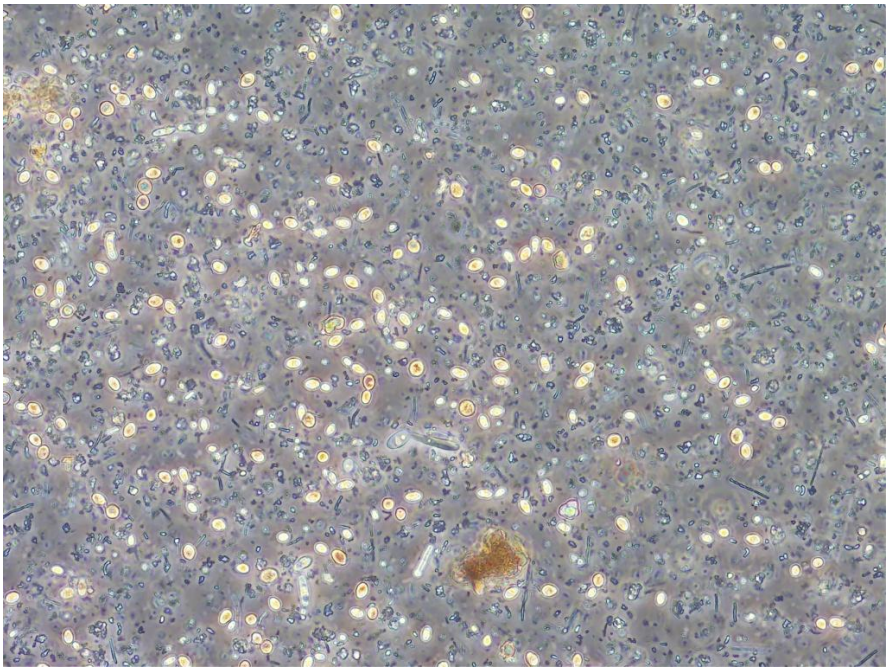
PRODUCT ANALYSIS

ProActiv is formulated from the following components, as listed on the product label.

Component	Role
Activated biology	A bespoke package of beneficial biology that aid in nutrient solubilisation and plant uptake while also helping to reduce the effects of common plant fungal diseases.
Organic acids	A dynamic package of 21 organic acids that aid in nutrient chelation and plant stress mitigation.
Trace minerals	A broad spectrum trace mineral package for plant performance and stress mitigation.
Complex carbohydrates	Readily available and long term available plant and microbial energy source.
VAM fungi	For greater root architecture, moisture and nutrient availability.
Wetter	Delivering superior uptake for any tank mixed foliar applications.

MODE OF ACTION

How ProActiv works



ProActiv at 400× magnification under phase-contrast microscopy.

ProActiv has been developed over many years to provide growers with a powerful combination of beneficial biology, organic acids, minerals and carbohydrates all working together to proactively stimulate the rhizosphere and subsequent early plant performance.

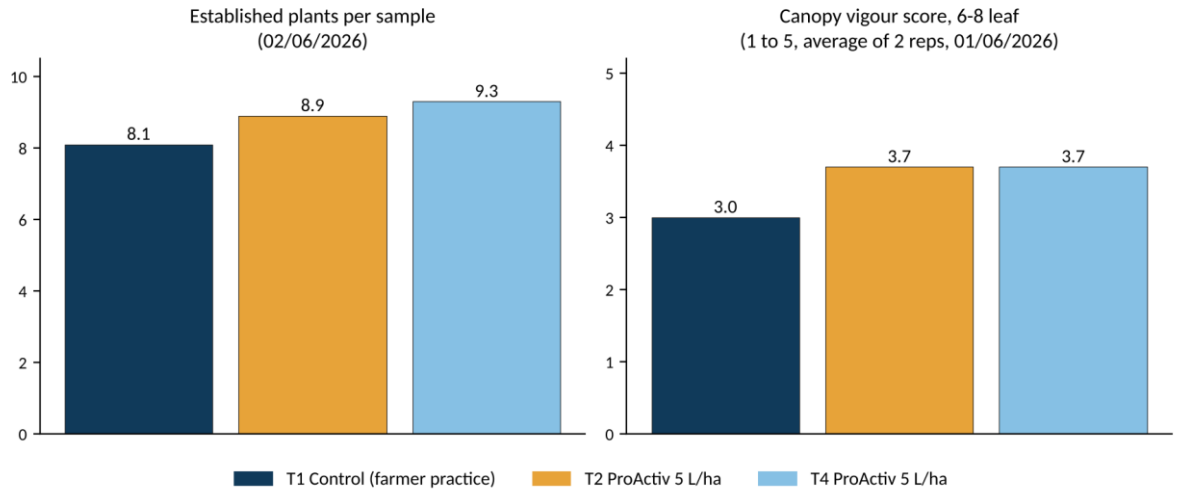
ProActiv, via its unique ingredients, has demonstrated its ability to aid in the foliar uptake of applied nutrients and the mitigation of abiotic stress events in crop.

Evidence

Chickpea Trial, Emerald Qld, June 2026

In-crop trial on chickpeas at Emerald, Queensland. T1 was the control (current farmer practice). T2 and T4 received the current farmer practice plus ProActiv at 5 L/ha, applied as liquid inject at planting.

Measure	T1 Control	ProActiv average (T2 and T4)	Change
Established plants per sample	8.1	9.1	+12%
Canopy vigour, 6-8 leaf	3.0	3.7	+23%



Chickpea trial, Emerald Qld: established plants and canopy vigour.

Both ProActiv treatments recorded a higher established plant count than the control, a 12% increase on control, and canopy vigour was higher in the ProActiv treatments at the 6-8 leaf stage, a 23% increase on control.

Mung Bean Lab Trial Photos

ProActiv was applied to Mung Bean seeds to observe both germination and root development. The results were favourable for the application of ProActiv to Mung Beans and are visually represented in the following trial photos.



Root development, Treatment 3 (1% solution), 30 days after planting. Control (left) and ProActiv (centre).



Seedling emergence, Control (left) and ProActiv (right).

TIMING AND APPLICATION

ProActiv can be applied to the soil or as a foliar application, via fertigation, boom or liquid injection. Dilute with 70-100+ L of water per hectare.

Method	Application timing	Rate
Soil applied	At planting	5 to 15 L/ha
Soil applied	With fertigation or irrigation application	10 to 20 L/ha
Foliar applied	Key periods of temperature stress	5 to 10 L/ha
Foliar applied	With nutrient foliar applications	5 to 10 L/ha

For best results, apply at planting, throughout the growing season, with or without the addition of tech grade fertiliser. Apply in the morning or late afternoon when using as a foliar application.

STRATEGIC USE AND APPLICATION

Role Within the Fertility Program

ProActiv supports the soil biology and the root zone so that the nutrients applied in a fertility program are used more effectively. It is not a substitute for a complete soil and crop nutrition program.

Mixing and Compatibility

ProActiv is compatible with a range of pesticides. Always conduct a jar test when mixing with chemicals prior to application. Take caution when mixing with herbicides, as potential crop damage could occur. Thoroughly decontaminate tanks and spray equipment before use, particularly before applying to sensitive crops. Clean the entire sprayer system, not just the tank.

Storage and Handling

Avoid exposure to direct sunlight and store in a cool, dry place. Shelf life is 2 years. Available in 20 L, 200 L and 1000 L drums. Refer to the SDS on the Switch Ag website for further information.

Technical note: ProActiv should be integrated with soil fertility, irrigation and crop management. Final rates, compatibility and use directions should remain consistent with the current product label and SDS. Switch Ag's responsibility for the product sold is subject to the terms and conditions of sale, a copy of which is available upon request.

