

STRUCTURE

Structure (9.1-11.9-00 +.26% Zinc + 7.8% Actagro Organic Acids) is a superior liquid phosphate formulation for progressive farmers interested in more mobile and more plant available phosphorous in their cropping system.

Features

- Analysis: 9.1-11.9-00 + .26% Zinc
- 7% Actagro Reacted Carbon Technology
- Low salt index
- Buffers the salt effect from other fertilisers when applied in combination

Benefits

- Phosphorous from applied Structure is highly resistant to tie up in soil
 - » Calcium & Magnesium in high pH soils
 - » Iron & Aluminium in low pH soils
- Increases mobility of Phosphorus in soil
- Increases Phosphorous uptake in root zone

Other

Application rate: See product label

Specific Gravity: ~ 1.307

pH: 6.3

Colour: Black

Compatibility: Caution: Not compatible with calcium liquid fertilisers. Seek professional advice prior to tank mixing with other nutritionals or pesticides.

Tank Mixing: Follow guidelines for tank mixing order. Ensure adequate agitation into a solution prior to use.

Storage: Keep sealed in original container. Store in frost-free, dry conditions out of direct sunlight, above 5°C and below 30°C

Contains (w/v)%: Nitrogen (N) 9.1%, Phosphorous 11.9%, Zinc 0.26% + 7.8% Actagro Organic Acids

The Role of Actagro Reacted Carbon Technology

Structure has been specifically developed to provide for more mobile, and significantly more available phosphate in the soil. Structure is also one of the few concentrated formulations that can effectively supply higher amounts of plant-available phosphorous to the root zone. The buffering effect provided by the Actagro Reacted Carbon Technology, means this unique formulation is non-phytotoxic and will not cause root damage to tender seedlings or young plants, unlike many commodity fertilisers. Replicated trials over many years have consistently shown that Structure creates a positive growth response in plants, providing increased yields with less phosphate being applied.



HIGHLY EFFICIENT LIQUID PHOSPHOROUS

Structure Field Research California (2011)

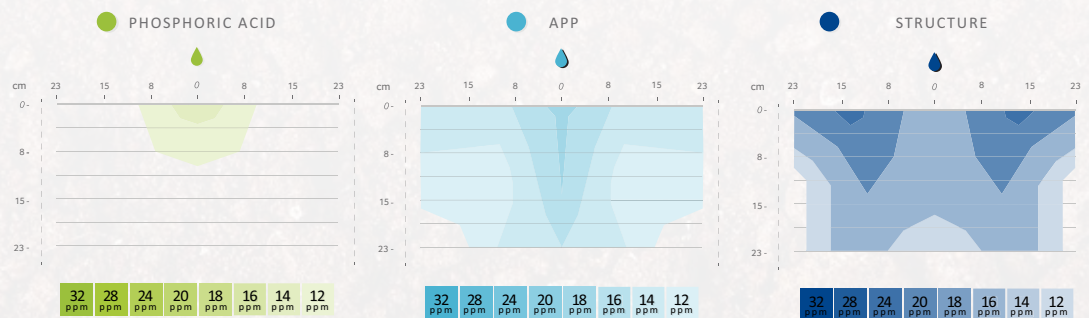
Proving Structure increases soil - P availability

- Commercial field trial
- Clay Loam soil (pH 7.8) - Kept free of vegetation
- Four replications
- Soil with high potential to tie up phosphorus (large calcium carbonate content)
- All treatments applied through the drip system to moist soil - Soil irrigated two times a week

Treatments:

1. Untreated
2. 22 Kg P/ha Phosphoric acid
3. 22 Kg P/ha as APP
4. 22 Kg P/ha as Structure

Distribution of soil-available Phosphorus (42 days after application)



Gerecke, T., Ajwa, H., Krauter, C., Pier, J. (2011). Greater Phosphorus Efficiency Results from Improved Mobility and Prolonged Availability. The Fluid Journal

Conclusion:

- Phosphorous applied as Structure had greater mobility in the soil profile than any other source of Phosphorous, measured 42 days after application.
- This result demonstrates that Structure is more efficient than conventional fertilisers by increasing the availability of Phosphorous to the crop for a long period of time.

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