

# Nutri-Key Hydro Shuttle™



A unique chelating process pushes more nutrition through the outer cell walls than previously possible.

A new liquid chelating agent specifically designed for hydroponics. The polysaccharide-based Hydro Shuttle™ is an additive for nutrient tanks intended to improve nutrient uptake and translocation.

## Benefits

- Biological Farmers of Australia (BFA) Registered Product 456AI.
- Sequesters, chelates and delivers more nutrition than previously possible.
- At the recommended rates, Hydro-Shuttle™ continues to deliver nutrition into the plant day and night. This has previously never been possible.
- Also serves as a carbohydrate-based microbial promotant.



## PACKAGING

1 L, 5 L, 20 L, 200 L, 1000 L  
Product Code: NKHS





# Nutri-Key Hydro Shuttle™



## Application Rates

Add 500 mL per 1000 L of hydroponic nutrient solution.

## The Shuttle™ Story

The Shuttle™ system, developed by South African industrial chemist, David Menne, is a major breakthrough in chelation nutrition. In conventional chelation chemistry, agents like EDTA or Ligno-Sulphonates carry the desired trace element through the outer cell walls into the plant. By contrast, the Shuttle™ system involves much more than a one-way journey, and the chelator never actually enters the plant. A suite of natural, polysaccharide-based agents are utilised in a two-step process where the selected elements are sequestered (held in reserve) in structures called nano-clusters. A shuttle ligand chelator then transports the nutrients to the plant surface where it "docks" and unloads its cargo before returning to the pool of sequestered clusters to repeat the exercise again and again. The net effect is a greatly enhanced uptake of the applied nutrients.

## Typical Analysis w/v

100% Shuttle™ Chelator

pH .....	8 - 10
Conductivity.....	15 - 17 mS/cm
Solubility.....	100%
Appearance.....	Brown liquid

## Miscellaneous

- Note: Product in 1000 L tanks may weigh over 1 tonne. Forklift with 2 tonne lifting capacity is recommended.

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