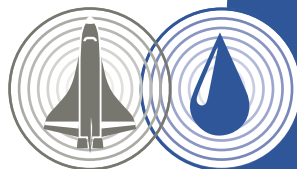


# Nutri-Key Manganese Shuttle™



**SHUTTLE  
LIQUID  
FERTILISERS**

**Timing is the trick with trace mineral applications.  
Manganese is a reproduction booster and timing should  
reflect that feature.**

Manganese is often termed the seed energiser and it is an important element for seed germination and seed formation. Nutri-Key Manganese Shuttle™ offers chelated manganese in a balanced formulation which covers the full spectrum of background nutrition.

## **BENEFITS**

- Chelates and delivers more nutrition than previously possible.
- Manganese accelerates seed germination and is required for carbohydrate and nitrogen metabolism.
- Provides high-analysis, cost-effective manganese correction.
- Also serves as a carbohydrate-based microbial promotant.
- Contains “background nutrients” to avoid the problems that can occur when the correction of one shortage triggers another shortage due to the antagonistic effect of certain elements.

## **PACKAGING:**

1 L, 5 L, 20 L,  
200 L, 1000 L

Product Code:  
NKMNS



# Nutri-Key Manganese Shuttle™



## APPLICATION RATES

### Foliar Spray: (preferred application method)

**Vegetables:** 0.5 L per 100 L water up to 2.5 L/ha equivalent. Apply twice prior to flowering or as required.

**Orchards & Vineyards:** 0.5 L per 100 L water up to 5 L/ha equivalent. Apply twice prior to flowering or as required.

**Ornamentals:** 0.5 L per 100 L water up to 3 L/ha equivalent. Apply twice prior to flowering or as required.

**Turf:** 0.5 L per 100 L water up to 3 L/ha equivalent. Apply every 4 weeks or as required.

**Broadacre Crops:** 0.5 – 1 L/ha in 60 – 100 L water, depending on canopy closure. Apply just prior to flowering or as required.

**Pasture:** 0.5 – 1 L/ha in 60 – 100 L water, apply as required.

**Spot-Spraying:** 25 mL per 10 L water, apply as required.

### Fertigation:

#### Vegetables & Ornamentals

3 L/ha, twice prior to flowering or as required

#### Orchards & Vineyards

3 – 5 L/ha, twice prior to flowering or as required

#### Turf

3 L/ha, every 4 weeks or as required

### Seed Treatment:

2 L/tonne of seed mixed with sufficient water to just coat the seed.

### Home Garden Application:

Dilute 7.5 mL per 9 L watering can and apply the diluted mix at a rate of 1 litre per square metre. Do not apply more than 6 times per year without demonstrated trace element requirement.

## STORAGE & HANDLING

- Read safety directions before use.
- Store in a cool dry area out of direct sunlight. This product has been tested to store safely down to 5°C. Crystallisation or sedimentation may occur below 5°C. Do not pre-mix or store in diluted form. Seal lid/cap immediately after use.

**Disclaimer:** Any recommendations provided by Nutri-Tech Solutions Pty Ltd (NTS) or its Distributors are advice only. As no control can be exercised over storage, handling, mixing, application or use, or weather, plant or soil conditions before, during or after application (all of which may affect the performance of our program), no responsibility for, or liability for any failure in performance, losses, damages, or injuries (consequential or otherwise), arising from such storage, mixing, application, or use will be accepted under any circumstances whatsoever. NTS recommend you contact an Agronomist prior to product application. The Buyer assumes all responsibility for the use of any NTS products.

## TYPICAL ANALYSIS W/W

Manganese (Mn) (as sulfate).....	13.19%
Total Nitrogen (N) (as organic).....	0.53%
Total Potassium (K).....	0.27%
Potassium (as hydroxide).....	0.14%
Potassium (as organic).....	0.09%
Potassium (as silicate).....	0.04%
Sulfur (S).....	8.15%
Carbon (C) (as Shuttle® chelator).....	4.70%
Iron (Fe).....	0.31%
Zinc (Zn).....	0.19%
Boron (B).....	866 mg/L
Magnesium (Mg).....	675 mg/L
Copper (Cu).....	490 mg/L
Silicon (Si).....	435 mg/L
Molybdenum (Mo).....	98 mg/L
SG.....	1.5
pH.....	5.6 – 6.6
Conductivity.....	10 – 30 mS/cm
Appearance.....	Brown liquid

## INSTRUCTIONS

**Stir well before use. Rates and frequencies should be adjusted according to crop monitoring.** Where higher water rates are required for good foliar coverage, do not exceed maximum product rate per hectare. Sensitive foliage or plants should be test sprayed prior to full scale application. Ensure suitable spray conditions (e.g. temperature, humidity, wind-speed), prior to foliar application. Compatibility and/or performance cannot be guaranteed when combined with other products. Jar test for compatibility and spray test on small area before wide-spread use.

## IMPORTANT

- Not compatible with soluble calcium or phosphate based inputs.
- Avoid spraying close to harvest if produce is susceptible to staining.
- **Note:** Product in 1000 L tanks may weigh over 1 tonne. Forklift with 2 tonne lifting capacity is recommended.

## YOUR LOCAL NTS DISTRIBUTOR:

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