

# REACTION®

*NPKS 15-6-9-0 + Trace Elements*



A balanced liquid NPK fertiliser for the rapid correction of deficiencies and growth of plants.

## BENEFITS OF REACTION®

- Premixed in carefully controlled ratios, so crop receives essential nutrients specific to its growth stage.
- Completely soluble & plant available, delivering required nutrients with low application rates.
- Clear liquid formulation, for ease of decanting, mixing and spraying.
- Ideal starter product promoting vigorous vegetative growth and rooting
- Added trace elements to aid healthy plant growth and maintenance

## THE IMPORTANCE OF NITROGEN

Nitrogen is the key nutrient that drives growth. Nitrogen forms proteins and amino acids to increase growth and crop yield. It is the essential building block of plant structure and is vital to plant growth. Nitrogen is often lost from the soil through leaching, volatilisation and microbial action. Nitrogen helps in the amino acid metabolism, production of plant hormones, cell growth and enzyme production. These enzymes catalyse various metabolic activities leading to sugar, starch and oil production.

## THE IMPORTANCE OF PHOSPHORUS

Phosphorus acts as a structural component of nucleic acids and phospholipids which form plant membranes. It is also important in cell division, photosynthesis, sugar and starch formation, energy transfer and movement of carbohydrates.

## THE IMPORTANCE OF POTASSIUM

Potassium optimises water use efficiency and is the key nutrient to improve crop photosynthesis and sugar production in fruits. Potassium is very important in fruit bearing plants. Potassium regulates the electrolytes and turgidity of plant cells. Potassium occurs in the guard cells of the stomata and is therefore essential in respiration and transpiration. Potassium is required at all growth stages and a lack of potassium cannot be rectified with late applications.

# REACTION®

**CHARACTERISTICS:** pH: 8.0 – 9.0 ; Specific Gravity: 1.28 – 1.31

**AUS Analysis W/W%:** 15.4% N, 6.3% P, 9.1% K, 0.32% S, 0.0002% Co, 0.003% Cu, 0.008% Fe, 0.015% Mn, 0.007% Mo, 0.007% Zn.

**International Analysis W/W%:** 12.1% N, 11.4%P(P<sub>2</sub>O<sub>5</sub>), 9.1% K (K<sub>2</sub>O), 0.25% S, 0.0001% Co, 0.002% Cu, 0.006% Fe, 0.011% Mn, 0.005% Mo, 0.005% Zn.

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## APPLICATION

**BROADACRE:** Such as Barley, Canola, Cotton, Grain legumes, Maize, Oats, Rice, Sorghum, Triticale, Wheat & Pasture crops. **Foliar: 4 – 7L/ha** in a minimum of 50 - 100 L final spray volume for Ground rigs or 5 – 10 in a minimum of 50 - 100 L final spray volume for Aerial rigs. Apply as required or during peak vegetative growth to correct deficiencies or to maintain growth. Can be applied aerially to top up nutrient during waterlogged conditions.

**DECIDUOUS TREE CROPS:** Such as Apple, Almond, Cherry, Nectarine, Peach, Pear, Pistachio and Walnut. **Foliar: 5 – 8 L/ha** in a minimum of 750 – 1200L final spray volume. **Fertigation: 10 - 20 L/ha.** Apply 3 sprays, 1st 14 – 21 days post spur burst, 2nd post bloom 3rd 21 days post bloom. Note: **DO NOT apply as a foliar to stone fruit during leaf growth.** Can be applied Post harvest but before leaf drop.

**EVERGREEN TREE CROPS:** Such as Avocado, Citrus, Macadamia, Lychee. **Foliar: 5 – 8 L/ha** in a minimum of 500 – 800L final spray volume. **Fertigation: 7 - 20 L/ha.** Apply at 7 – 14 day intervals during active growth period. **DO NOT apply to fruit containing copper residue as burn may result. Apply prior to application of copper.**

**FRUITING VEGETABLES:** Such as Capsicum, Cucurbits, Eggplant, Tomatoes, Watermelons, Pumpkins. **Foliar: 5 – 10 L/ha** in a minimum of 500 – 1000L final spray volume. **Fertigation: 7 - 20 L/ha.** Apply during vegetative stage. Use where higher nitrogen and growth are required. When practical use higher (more dilute) water rates.

**LEAFY VEGETABLES:** Such as Endive, Fennel Lettuce, Broccoli, Cabbage, Cauliflower, Kale and Herbs. **Foliar: 5 – 10 L/ha** in a minimum of 500 – 1000L final spray volume. **Fertigation: 8 - 20 L/ha.** Apply 10 – 14 days after emergence or 2 – 3 weeks after transplanting. **DO NOT apply in heat of day.**

**ROOT VEGETABLES:** Such as Beetroot, Carrot, Leek, Onion, Potato, Radish, Sweet Potato. **Foliar: 5 – 10 L/ha** in a minimum of 500 – 1000L final spray volume. **Fertigation: 7 - 20 L/ha.** Apply as required during early vegetative growth to canopy closure. **DO NOT apply in heat of day.**

**VINE and BERRY CROPS:** Such as Blueberry, Strawberry, Raspberry, Wine and Table Grapes. **Foliar: 5 – 10 L/ha** in a minimum of 500 – 1000L final spray volume. **Fertigation: 10 - 20 L/ha.** Apply at 14 day intervals as required. **DO NOT exceed 2x concentration or 2x hectare rate.**

Fertigation rates are dependent on seasonal nutrient demand.

Agitate contents well prior to application.

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NOTE: The suggested rates of application of the Product are designed for typical Australian conditions and should be used as a guide only. Each farmer's climatic conditions, water quality, soil types, application processes and practices may differ and therefore necessitate corrections to ensure optimum results. Good agricultural practice requires that application be avoided under extreme weather conditions such as temperatures over 28°C, high humidity, frost, rain etc. It is recommended that when applying to a crop or area for the first time, or in combination with other chemicals, a small test area should be sprayed and observed prior to the total spray. Where possible, it is recommended that regular leaf tests are conducted to determine actual plant nutrient availability during each growth cycle. Soil tests at least once per year are essential.