

*Quality Ingredients  
Australian Made  
Family Owned*



**FERTILIZERS**

*Nutrient Solutions*

The background of the central section is a photograph of an orchard. In the foreground, there are several ripe, red and yellow apples hanging from a tree. The background shows rows of trees stretching into the distance under a blue sky with light clouds.

# *Post Harvest Pome & Stone Fruit Nutritional Guide*

*Post Harvest nutrient management is a key factor in fueling your trees from bud-swell to petal fall. What happens post harvest can influence bud fertility and the strength of bloom in spring. Are you getting the balance correct?*

*Working with SLTEC's Agronomy team can help you to maximise the factors that are in your control.*

[www.sltec.com.au](http://www.sltec.com.au)

# Nutritional Information

As the harvest season comes to a close, attention should be given to next year's crop potential, including beginning the correction of any nutrient issues that may have been diagnosed during the season and from summer tissue and fruitlet testing. It is now widely accepted that post harvest foliar nutrition as soon as possible after harvest is a key tool in providing adequate bud nutrient levels through to petal fall.

## Nitrogen (N)

Post harvest nitrogen applications via both foliar and soil application are proven to increase flower duration, the length of time for pollination and subsequent fruit set. Cherries, apricots and early season apple varieties rely heavily on post harvest nitrogen applications and may receive from 50 - 80% of their seasonal nitrogen allocation post harvest, depending on the site, variety, rootstock and previous crop load.

## Trace Elements

Foliar application of trace elements with low biuret urea is highly beneficial in most situations as the nitrogen stimulates uptake. Key foliar trace elements to apply now are magnesium, zinc and boron. Movement of both boron and zinc is minimal in the tree until extension growth commences.

## Boron (B)

Boron is involved in calcium mobility, cell membrane integrity and cell wall polysaccharides and is well known to influence good pollination, seed set and fruit shape. It is prone to leaching and during winter levels can fall below the desired requirements for fruit production, therefore post harvest application of boron plays an important role to ensure adequate levels at bud burst.

## Zinc (Zn)

Zinc is essential for the production of the primary growth hormone - auxin and is required by a large number of enzymes and for chlorophyll production. Only small amounts are taken up by roots and deficiency is common in pears resulting in blind buds and small leaves. Although foliar zinc applications are very effective in most fruit tree crops - care must be taken with timing of application on sensitive varieties (Apricots and Peaches).

## Magnesium (Mg)

It is also common to apply magnesium at this time although it is quite mobile and deficiency can usually be corrected relatively easily during the growing season. Magnesium is part of the chlorophyll molecule and is subsequently critical for photosynthesis.

## Manganese (Mn) & Iron (Fe)

Manganese and iron are also essential in photosynthesis through enzyme activation and electron transfer respectively. Iron has limited mobility in plants and both Iron and manganese uptake can be easily affected by high pH soil conditions.

## Foliar Nitrogen Applications with TE

### Low Biuret Urea

Common foliar application rates for deciduous fruit trees to enhance stored nitrogen and carbohydrate reserves are 10 to 20 kg/ha for one to two sprays. **Low Biuret Urea** can be combined with your choice of SLTEC's single trace elements such as the highly compatible **Nitro Trace Range** or a pre-formulated trace element blend such as **TE 8 PLUS**.

As an alternative to Urea, a number of growers are now recognizing the benefits of applying SLTEC's **Nitro QUAD 3** post harvest. This product provides three forms of nitrogen in combination with organic stimulants contained in **QuadSHOT®** and can be applied as foliar or through fertigation.

## Fertigation Applications

**Baseline Plus** at 30 to 70 L/ha over two to three consecutive irrigations will provide a full range of NPK plus trace elements with added biological stimulants to replenish major quantities of nutrients removed with the crop during the growing season. If you prefer a balanced foliar approach, **Baseline Plus** can also be applied as a foliar at 2 to 15 L/ha with 200 to 2,000 L/ha water.

In addition **Cal Mag & Boron** is also a product of choice for post harvest fertigation to supply nitrogen, calcium, magnesium and boron to tree crops.

In young orchards where root development is paramount or in low phosphorus situations products such as **SS 11:16:0** as a post harvest / pre leaf fall fertigation can be a beneficial addition to your program.

Our **Sustain & Gro®** Range focuses on soil health and biostimulation. **QuadSHOT®** provides a valuable combination of fish emulsion, kelp, humates and molasses to stimulate recovery of root-zone biology prior to winter. If you are looking for a highly plant available source of calcium to aid root development go no further than **BiologiCAL® PLUS**.

**NitrologiCAL PLUS** provides all the benefits of **BiologiCAL® PLUS** in combination with a high analysis of urea, ammonium and nitrate nitrogen for post harvest fertigation.

# Product Technical Information

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Product Code	Name	N% (w/v)	P% (w/v)	K% (w/v)	S% (w/v)	Ca% (w/v)	Specific Gravity (kg/L)	pH Range	Typical Application Rates	
									Fertigation	Foliar <small>Use 200 to 2,000 L/ha Water</small>
GG0064	<b>Nitro QUAD 3</b> N as NO <sub>3</sub> 10.3%, N as NH <sub>4</sub> 10.3%, N as Urea 20.6%, P as PO <sub>4</sub> 0.1%, Fe 0.001%, Fulvic Acid 0.01%, Fish Emulsion 0.2%, Humic Acid 0.2%, Kelp 0.2%, Molasses 0.2%	41.2	0.1	0.1	-	-	1.30 - 1.32	6.0 - 7.0	10 to 80 L/ha	10 to 60 L/ha
GG0063	<b>NitrologiCAL PLUS</b> N as NO <sub>3</sub> 6.4%, N as NH <sub>4</sub> 6.4%, N as Urea 12.8%, Fulvic Acid 0.004%, Fish Emulsion 0.1%, Humic Acid 0.1%, Kelp 0.1%, Molasses 16.2%	25.6	-	0.8	0.7	2.4	1.29 - 1.30	7.0 - 8.0	10 to 100 L/ha	10 to 60 L/ha
GG0024	<b>Cal Mag &amp; Boron</b> N as NO <sub>3</sub> 12.4%, Mg 3.4%, B 0.2%	12.4	-	-	-	12.3	1.47 - 1.50	2.0 - 3.0	10 to 100 L/ha	5 to 10 L/ha
GG0009	<b>Baseline Plus</b> N as NO <sub>3</sub> 0.02%, N as Urea 11.7%, P as PO <sub>4</sub> 4.8%, Mg 0.2%, Mn 0.01%, Zn 0.01%, Cu 0.005%, B 0.02%, Fe 0.01%, Fulvic Acid 0.01%, Fish Emulsion 0.4%, Humic Acid 0.3%, Kelp 0.4%, Molasses 0.4%	11.8	4.8	13.6	2.0	-	1.29 - 1.32	7.5 - 8.5	10 to 80 L/ha	2 to 15 L/ha
SS9001	<b>SS 11:16:0</b> N as NH <sub>4</sub> 11.3%, P as PO <sub>4</sub> 16%	11.3	16.0	-	-	-	1.29 - 1.30	6.0 - 7.0	20 to 100 L/ha	1 to 5 L/ha
SNPK0050	<b>Boron Complex</b> N as amine 6.0%, B 15.0%	6.0	-	-	-	-	1.34 - 1.38	7.5 - 8.5	2 to 5 L/ha	1 to 3 L/ha
SNPK0057	<b>Nitro Mag</b> N as NO <sub>3</sub> 9.8%, Mg 8.8%	9.8	-	-	-	-	1.36 - 1.37	< 2.0	12 to 25 L/ha	2 to 10 L/ha
SNPK0058	<b>Nitro Mang</b> N as NO <sub>3</sub> 12.2%, Mn 24.0%	12.2	-	-	-	-	1.55 - 1.56	2.0 - 3.5	1 to 5 L/ha	500mL to 2L/ha
SNPK0059	<b>Nitro Z</b> N as NO <sub>3</sub> 8.3%, Zn 19.3%	8.3	-	-	-	-	1.46 - 1.47	< 2.0	1 to 4 L/ha	500 mL to 1000 mL/ha
SNPK0031	<b>Fe PLUS</b> Fe 8.1%, Fulvic Acid 0.5%	-	-	0.1	4.7	-	1.22 - 1.23	2.0 - 3.0	5 to 10 L/ha	1 to 3 L/ha
SNPK0054	<b>Mo 250P</b> P as PO <sub>4</sub> 11.0%, Mo 25.0%	-	11.0	-	-	-	1.57 - 1.58	3.5 - 4.5	Up to 150 mL/ha	40 to 150 mL/ha
SNPK0046	<b>TE 8 PLUS</b> N as NO <sub>3</sub> 2.6%, Mg 2.4%, Mn 3.2%, Zn 3.2%, Cu 0.5%, Mo 0.02%, B 0.2%, Fe 0.7%, Fulvic Acid 0.5%	2.6	-	0.1	4.2	-	1.28 - 1.29	1.0 - 2.0	10 to 25 L/ha	2 to 10 L/ha
SG0039	<b>QuadSHOT®</b> P as PO <sub>4</sub> 2.5%, Mn 0.001%, B 0.002%, Fe 0.006%, Fulvic Acid 0.3%, Fish Emulsion 8.0%, Humic Acid 6.6%, Kelp 8.0%, Molasses 8.0%	0.3	0.1	3.4	0.2	0.2	1.10 - 1.20	10.0 - 11.0	20 to 60 L/ha	1 to 5 L/ha
SG0017	<b>BiologiCAL® PLUS</b> N as NO <sub>3</sub> 0.3%, P as PO <sub>4</sub> 0.1%, Fulvic Acid 0.01%, Fish Emulsion 0.3%, Humic Acid 0.2%, Kelp 0.3%, Molasses 41.8%	0.3	0.1	2.0	1.8	6.3	1.27 - 1.30	8.0 - 10.0	20 to 60 L/ha	4 to 20 L/ha
SG0016	<b>Humic K 26</b> Mn 0.001%, Zn 0.001%, Cu 0.001%, Fe 0.2%, Si 0.1%, Fulvic Acid 1.0%, Humic Acid 25.0%	0.1	-	6.0	0.1	-	1.10 - 1.12	10.0 - 11.0	2 to 20 L/ha	N/A



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Organisation



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