Quality Ingredients
Australian Made
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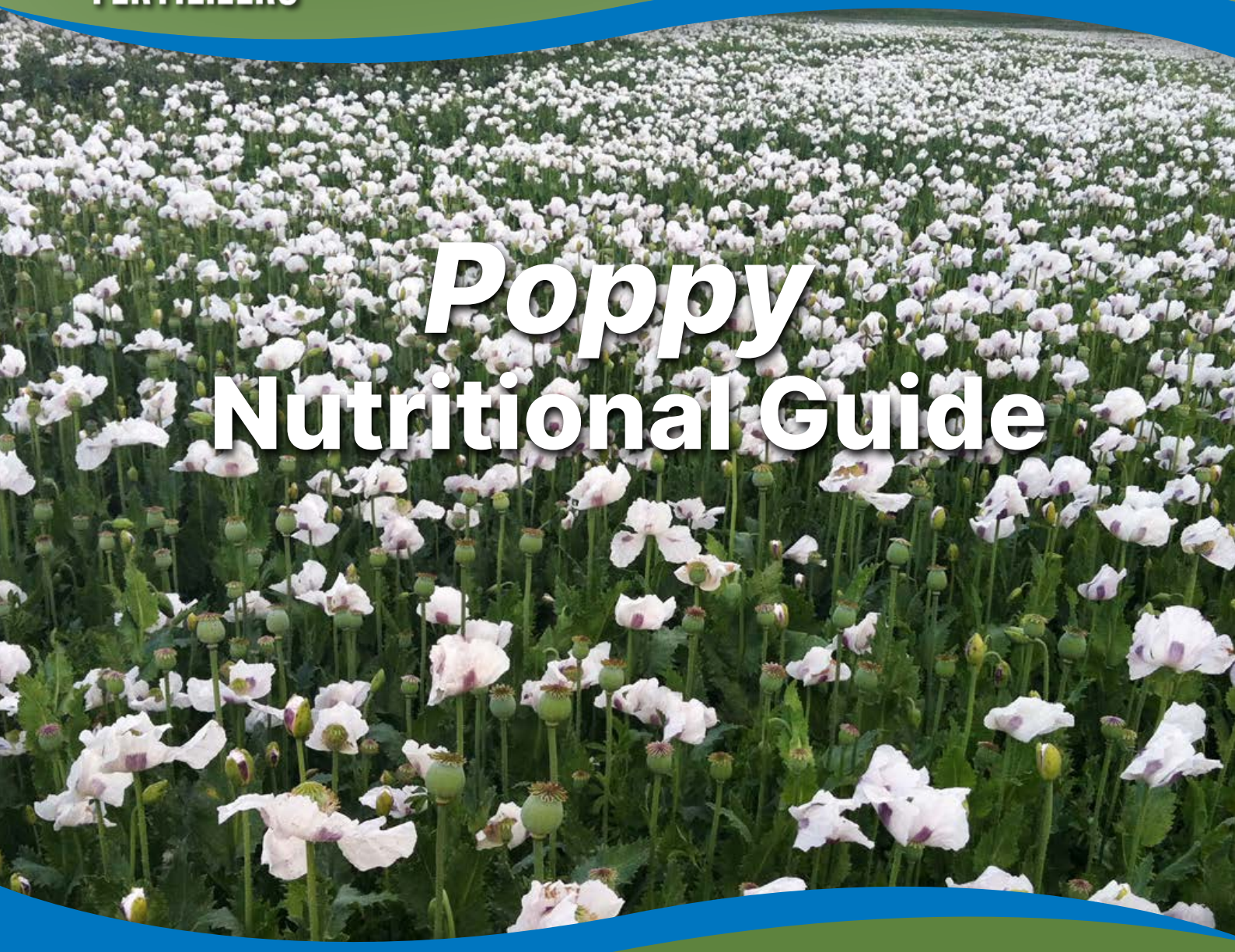
SLTEC®
FERTILIZERS

Nutrient Solutions



Poppy Nutritional Guide

Backup your pre-plant fertiliser and push the boundaries of production with SLTEC®'s range of quality fluid fertilisers.

SLTEC® can assist you to develop your nutrient budget, improve production efficiency and reduce environmental impacts.

sltec.com.au

Poppy Nutritional Information

SLTEC® Fertilizers offer a convenient range of fluid options suited to both foliar and fertigation, providing flexibility and assisting you in maximising your crops potential.

Good fertiliser management practices based on soil and tissue testing enable you to target specific crop demand peaks during the growing season. Understanding crop nutrient removal is a key component of this process.

Typical Poppy Crop Nutrient Removal Data

Nutrient Removed per ton of harvested crop	Yield (t/ha)			
	1	2	3	4
Nitrogen (kg)	25	50	75	100
Phosphorus (kg)	6	12	18	24
Potassium (kg)	19	38	57	76
Boron (g)	34	68	102	136
Manganese (g)	59	118	177	236
Iron (g)	35	70	105	140
Zinc (g)	30	60	90	120

Summary of Major Nutritional Requirements

Aim for an ideal soil pH of 6.0 - 6.5 (1:5 in water). Planting is not recommended in most situations if pH is less than 5.5 without appropriate liming.

Poppies require high phosphorus at sowing with ideal guidelines between 20 and 50 ppm Olsen P depending on soil type.

Typical ideal soil potassium levels are from 120 to 250pmm.

Poppy crops respond dramatically to nitrogen. Applications range from 10 to 35 kg/ha at sowing depending on paddock history. It is advisable to closely monitor soil and plant nitrogen levels to avoid growing big leafy plants with large heads that can lodge easily. Soil nitrate levels of 100 to 120 kg/ha before running up are considered acceptable. Less than 100 kg/ha is generally considered to be inadequate and top-up prior to this growth stage is advised. Sap nitrate levels below 2500 ppm at run-up may result in depressed alkaloid content. Ensure that sap nitrate contents are optimal by hook-stage.

Soil boron levels between 1 (sandy loam) and 3 ppm (kraznozems) are desirable, and rates of up to a total of 2 kg/ha boron may be applied over the season.

Historically, there has been little response shown in poppies to applied secondary and trace elements other than boron. However, recent interest in the role of calcium in improving stem strength and molybdenum in nitrogen metabolism has prompted a renewed focus on nutrition.

Why use Fluid Fertiliser?

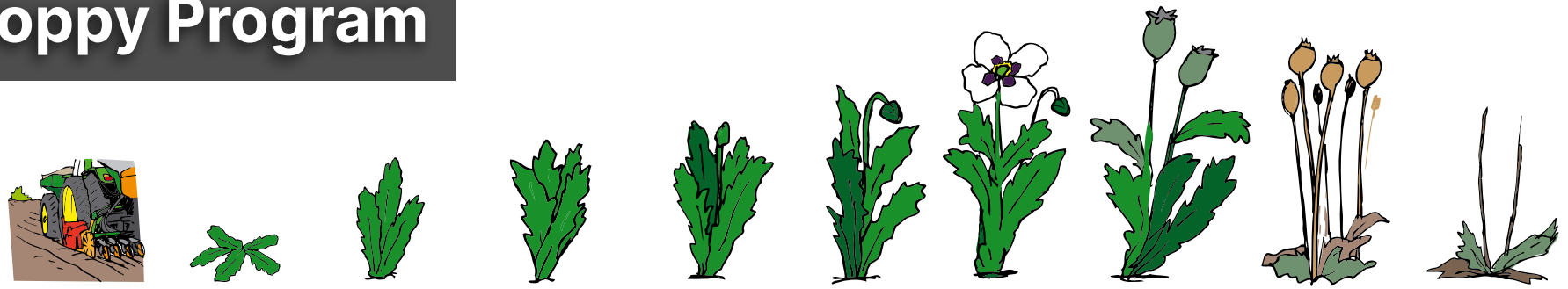
- Efficient and highly plant available
- Can deliver many nutrients with a single application
- Small and frequent applications reduce leaching and runoff
- Foliar and fertigation options allow flexible application timing unlike relying on broadcast application
- Consistency of product and uniform application across the soil
- Nutrients infiltrate to the root zone where maximum uptake is achieved
- Foliar application particularly of trace elements avoids tie up in the soil
- Can be mixed with a range of farm chemicals
- Labour savings and improved workplace safety

Poppy Nutrition References

Tony Fist - Tasmanian Alkaloids, personal comm

Rohan Kile - GlaxoSmithKline, personal comm

SLTEC® Poppy Program



Product Code	SLTEC Product Name	Planting	Large Rosette	Running Up	Late Running Up	Bud in Apex	Hook	Flowering	Capsule Set & Fill	Notes
SS9001	**SS 11:16:0**	10 - 50								Phosphorus for improved plant establishment.
GG0064	**Nitro QUAD 3™**		30 - 80				30 - 60			42% nitrogen with QuadSHOT® (fish emulsion, kelp, humic and molasses) to enhance uptake
			5 - 15							
GG0096	**CalAN + B™**			40 - 100			40 - 80			23% nitrogen as ammonium nitrate with 12% calcium and boron
				5 - 15						
GG0063	**NitrologiCAL PLUS™**	20 - 80		40 - 100			40 - 80			26% nitrogen, with the benefit of calcium and QuadSHOT®
			5 - 20							
GG0024	**Cal Mag & Boron™**									Nitrate nitrogen foliar boost with calcium, magnesium and boron
				5 - 20						
SNPK0050	**Boron Complex™** MoBo Complex also available (additional 0.3% molybdenum)									Convenience of a 15% boron liquid to assist with pollination and calcium mobility
					1 - 2					
SNPK0046	**TE 8 PLUS™**									Multi trace foliar for plant establishment
			2 - 10							
SNPK0040	**Crop Booster PLUS™**									High phosphorus with calcium and zinc to boost yield
			2 - 10		2 - 10					

Banded below or to the side of seed

Fertigation

Foliar

All rates are L/ha - Foliar use at least 100 L/ha water

Product Technical Analysis

Product Code	Name	N% (w/v)	P% (w/v)	K% (w/v)	S% (w/v)	Ca% (w/v)	Specific Gravity (kg/L)	pH Range
SS9001	**SS 11:16:0™** N as NH_4 11.3%, P as PO_4 16.0%	11.3	16.0	-	-	-	1.297	6.0 - 7.0
GG0064	**Nitro QUAD 3™** N as NO_3 10.3%, N as NH_4 10.3%, N as urea 20.7%, C 0.2%, Fulvic Acid 0.008%, Fish Emulsion 0.2%, Humic Acid 0.2%, Kelp 0.2%, Molasses 0.2%	41.4	0.1	-	-	-	1.321	4.0 - 7.0
GG0096	**CalAN + B™** N as NO_3 16.0%, N as NH_4 7.4%, B 0.2%	23.4	-	-	-	12.2	1.470	3.0 - 7.0
GG0063	**NitrologiCAL PLUS™** N as NO_3 6.4%, N as NH_4 6.4%, N as urea 12.8%, P as PO_4 0.05%, C 5.0%, B 0.04%, Humic Acid 0.1%, Kelp 0.1%, Fish Emulsion 0.1%, Molasses 16.7%	25.7	-	0.8	0.7	2.6	1.307	7.0 - 8.0
GG0024	**Cal Mag & Boron™** N as NO_3 12.5%, Mg 3.4%, B 0.2%	12.5	-	-	-	12.5	1.483	2.0 - 2.5
SNPK0050	**Boron Complex™** N as amine 6.0%, B 14.7%	6.0	-	-	-	-	1.379	7.5 - 8.5
SNPK0053	**MoBo Complex™** N as amine 6.0%, Mo 0.3%, B 14.7%	6.0	-	-	-	-	1.387	7.0 - 8.0
SNPK0046	**TE 8 PLUS™** N as NO_3 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	-	-	4.2	-	1.295	1.0 - 2.0
SNPK0040	**Crop Booster PLUS™** N as NO_3 2.1%, N as NH_4 2.9%, Mg 0.2%, Mn 0.4%, Zn 0.4%, Cu 0.5%, Mo 0.008%, B 0.05%, Fulvic Acid 0.5%	5.0	15.0	2.1	-	4.0	1.319	< 2.0

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