



FERTILIZERS

Quality Ingredients
Australian Made
Family Owned

Nutrient Solutions

Poppy Nutritional Guide

Backup your pre-plant fertilizer and push the boundaries of production with SLTEC's range of quality fluid fertilizers.

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

www.sltec.com.au

SLTEC Fertilizers provide a convenient range of fluid options suited to both foliar and fertigation that provide flexibility and assist you to maximise your crops potential.

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

Typical Poppy Crop Nutrient Removal Data

Nutrient Removed per tonne 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 250ppm.

Poppy crops respond dramatically to Nitrogen. Applications range from 10 to 35 kg/ha at sowing depending on paddock history. It is advisable to monitor soil and plant Nitrogen closely to avoid growing big leafy plants with large heads that can lodge easily. Soil Nitrate levels of 100-120 kg per hectare before running up are considered OK. If less than 100 kg it is generally considered necessary to top up prior to this growth stage. 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 roles of calcium and molybdenum in improving stem strength and nitrogen metabolism respectively has prompted renewed focus on nutrition.

Poppy Nutrition References

Tony Fist - Tasmanian Alkaloids,
personal comm

Rohan Kile - GlaxoSmithKline,
personal comm

Why use Fluid Fertilizer?

- Efficient and highly plant available
- Can deliver many nutrients with a single application
- Smaller and more frequent applications and help reduce leaching and runoff
- Foliar and Fertigation options allow flexible application timing
- Consistency of product and uniform application
- 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 farm chemicals
- Labour savings and improved workplace safety

Consult your agronomist or field representative for specific information regarding your situation.

Disclaimer: Interpretations and recommendations given here are a guide only. The recommendation is made in good faith, based on the best technical information available. Additionally, environmental and managerial factors influence production, therefore Sustainable Liquid Technology Pty Ltd does not accept any liability arising out of these interpretations and recommendations for any damage loss or injury of any nature and the user takes these interpretations and recommendations on these terms.

Poppy Growth Stage & Suggested Product Application Timeline



See back page for technical analysis										
Product Code	SLTEC Product Name	Planting	Large Rosette	Running Up	Late Running Up	Bud in Apex	Hook	Flowering	Capsule Set & Fill	Notes
SS9008	NEW SS 14:21:0 (APP)	10 - 50								Provides a slower release ammoniated 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

* These products are also available with Boron.
SLTEC can provide custom blends on request depending on volume.

QuadSHOT® - 4 way combo of Humic Acid, Kelp, Fish Emulsion and Molasses that stimulates plant uptake of nutrients and establishment.

For more information see QuadSHOT® Fact Sheet
www.sltec.com.au/downloads

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
SS9008	 SS 14:21:0 (APP) N as NH_4 14.0%, P as PO_4 20.8%	14.0	20.8	-	-	-	1.40	6.2 to 7.0
GG0064	Nitro QUAD 3 N as NO_3 10.3%, N as NH_4 10.3%, N as Urea 20.6%, P as PO_4 0.1%, Fe 0.001%, Si 0.003%, Fulvic Acid 0.01%, Fish Emulsion 0.2%, Humic Acid 0.2%, Kelp 0.2%, Molasses 0.2%	41.1	0.1	0.1	-	-	1.30 - 1.32	6.0 to 7.0
GG0096	CalAN + B N as NO_3 15.9%, N as NH_4 7.4%, B 0.25%	23.3	-	-	-	12.1	1.46 - 1.48	3.0 to 7.0
GG0063	NitrologiCAL PLUS N as NO_3 6.5%, N as NH_4 6.5%, N as Urea 13.1%, Fulvic Acid 0.004%, Fish Emulsion 0.1%, Humic Acid 0.1%, Kelp 0.1%, Molasses 16.6%	26.2	-	0.8	0.7	2.5	1.30 - 1.33	7.0 to 8.0
GG0024	Cal Mag & Boron N as NO_3 12.2%, Mg 3.4%, B 0.2%	12.2	-	-	-	12.1	1.47 - 1.50	2.0 to 3.0
SNPK0050	Boron Complex N as amine 6%, B 15%	6.0	-	-	-	-	1.34 - 1.38	7.5 to 8.5
SNPK0053	MoBo Complex N as amine 6%, Mo 0.3%, B 15%	6.0	-	-	-	-	1.34 - 1.39	7.0 to 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 0.8%, Fulvic Acid 0.5%	2.8	-	-	4.4	-	1.30	1.0 to 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	1.32	< 2.0

Please contact SLTEC for
details of your local dealer



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