



FERTILIZERS

# ***In-Crop Nutrients for Winter Canola 2021***

*Liquid fertilisers can provide valuable management tools for in-crop nutrient decisions.*

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# Why Choose SLTEC® Fertilizers?

SLTEC® Fertilizers is a leading manufacturer of fluid fertilisers, based in Northern Victoria

## Our Promise

### Quality

SLTEC® Fertilizers is committed to supplying consistently high quality products.

### Investment

SLTEC® Fertilizers will ensure that your fertiliser inputs maximise the return on your investment.

### Service

SLTEC® Fertilizers will provide professional, logistical and agronomic support to ensure a sustainable relationship.

Read our quality assurance policy online at [sltec.com.au/quality](http://sltec.com.au/quality)

### 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



# Canola Nutrient Deficiencies

Crop nutrient budgeting allows growers to achieve expected yields. If a crop is missing an essential nutrient, the crop's potential can diminish, and yields reduce.

Below are some examples of nutrient deficient crops. If you observe these symptoms, then your crop yields are being penalised, and remedial steps should be considered.

The diagnosis of crop deficiencies should always be confirmed with an analytical tissue test. Corrective products and rates should be discussed with your agronomist or local SLTEC® representative.

## Sulphur



Canola will often show sulphur deficiency symptoms in young crops, however yield is often unaffected as the plant accesses reserves in the subsoil.

### Symptoms:

- New varieties show crisp, blotchy leaves and rolled leaves with bright purple undersides
- Leaves are cupped or roll inwards, and become thick, crisp and brittle
- Leaves develop purple undersides

## Boron



### Symptoms:

- Young plants have shortened, sometimes cracked stems that cup outwards and thicken, making them brittle.
- Emerging leaves can be red-brown / purple in colour
- Growing point may die and be replaced by lateral branches
- Flowers form, but then abort

## Molybdenum



### Symptoms:

- Pale plant colour
- Mixture of pale and healthy plants
- Poor responses to nitrogen fertilisation
- Stunted plant growth
- Leaf margins appear brown and scorched

## Copper



### Symptoms:

- Deficient plants wilt easily
- Smaller plant size
- Pale plant colour
- Fully expanded leaves can be thinner

## Zinc



Mild deficiencies of zinc can be difficult to identify in canola.

### Symptoms:

- Stunted plant growth
- Pale plant colour
- Patchy appearance of crop, with areas of poor growth alongside areas of normal growth

# UAS Range

**A simple one-pass application of a UAS product will provide your crop with the nutrients required for increased crop health, encouraged crop growth and increased yield potential.**

## Benefits:

UAS has a similar cost per unit of nitrogen compared to UAN; however, it also contains sulphur.

UAS has a nitrogen to sulphur ratio of 4:1, a similar ratio to the nutrient removal of canola.

## Role of Sulphur:

Sulphur is a building block of protein and a key ingredient in the formation of chlorophyll. Without adequate sulphur, crops cannot reach their full potential in terms of yield or protein content.

The UAS range is compatible with a large amount of common ag-chemical actives.

## Typical Application Rates:

### Foliar

30 - 60 L/ha with water  
to a minimum applied volume of 80 L/ha water

### Streaming nozzle

60 - 200 L/ha with water as needed

### Fertigation

100 - 200 L/ha

Product Code	Name	N (% w/v)	P (% w/v)	S (% w/v)	Zn (% w/v)	Cu (% w/v)	Mo (% w/v)	B (% w/v)	Other	Specific Gravity (kg/L)	pH Range
GG0066	<b>UAS</b>	26.6	-	6.7	-	-	-	-	N as NH4 26.6%, N as urea 20.9%	1.235	4.0 - 7.0
SSCB0022	<b>UAS P</b>	23.9	2.8	5.5	-	-	-	-	N as NH4 6.7%, N as urea 17.2%	1.246	4.0 - 7.0
GGCB0129	<b>UAS + 1% Zn</b>	27.3	-	6.7	1.0	-	-	-	N as NO3 0.4%, N as NH4 5.9%, N as urea 20.9%	1.263	7.0 - 8.0
GGCB0108	<b>UAS + 0.5% Cu</b>	26.3	-	6.6	-	0.5	-	-	N as NO3 0.2%, N as NH4 5.6%, N as urea 20.5%	1.241	3.0 - 7.0
GGCB0230	<b>UAS + Cu &amp; Mo</b>	26.6	-	6.7	-	0.06	0.02	-	N as NH4 5.7%, N as urea 20.9%	1.236	6.0 - 8.0
GGCB0252	<b>UAS + Cu &amp; B</b>	24.7	-	6.2	-	0.3	-	0.3	N as NO3 0.1%, N as NH4 5.3%, N as urea 19.2%	1.230	2.0 - 3.0

# Unleash plant potential with a combination of responsive key trace elements



## Maximise Zn-Cu-B-Mo™

Product Code: SNPK0091

- Fully chelated zinc and copper together with boron and molybdenum in complex forms allows high plant availability, very low phytotoxicity risk and a broad range of ag-chem compatibility.
- Conveniently supplies four key micronutrients that are often found to be deficient in one product.
- Highly plant responsive through in crop application, improving plant health, yield potential and crop quality.
- Supplies key nutrients that are of critical importance in the lead up to the reproductive growth stage. Research has found a responsive synergy between boron, zinc and molybdenum at pollination in certain crops.
- Zinc and copper in a commonly desirable 4:1 ratio suitable for a variety of crops.

### Copper's function in the plant

- Activates certain enzymes in plants involved in lignin synthesis.
- Essential in several enzyme systems.
- Essential in the process of photosynthesis, plant respiration and assists in plant metabolism of carbohydrates and proteins.

### Zinc's function in the plant

- Activates enzymes that are responsible for the synthesis of certain proteins.
- Used in the formation of chlorophyll and some carbohydrates, and conversion of starches to sugars.
- Its presence in plant tissue helps the plant withstand cold temperatures.

### Boron's function in the plant

- Important in pollination and seed reproduction.
- Maintains a balance between sugar and starch.
- Essential for proper cell wall formation.
- Plays a vital role in the proper function of cell membranes and the transport of potassium to guard cells for the control of internal water balance.

### Molybdenum's function in the plant

- Functions in converting nitrates (NO<sub>3</sub>) into amino acids within the plant.
- Essential to the symbiotic nitrogen-fixing bacteria in legumes.
- Essential to the conversion of inorganic phosphorus into organic form.

### Guaranteed Analysis (w/v)

Nitrogen (N)	2.5%
N as ammonium	2.0%
Zinc (Zn)	4.7%
Copper (Cu)	1.2%
Molybdenum (Mo)	0.5%
Boron (B)	1.2%
Specific Gravity	1.206 kg/L
pH Range	7.5 - 8.5
Chelation Mechanism	EDTA

### Typical Application Rates

#### Foliar:

1.25 - 6.25 L/ha  
Horticulture use 200 to 2,000 L/ha water  
Broadacre use at least 100 L/ha water

#### Foliar (Tree Crops):

5 - 10 L/ha  
Horticulture use 200 to 2,000 L/ha water

#### Fertigation:

5 - 12.5 L/ha



# Ensure Your Crop Doesn't Have Limiting Nutrients



# MoBo Complex™

Product Code: SNPK0053

MoBo Complex™ is a high-quality blend of boron and molybdenum in the ideal ratio for plant uptake in a number of plants. Some research suggests there is a synergy between boron and molybdenum at pollination.

## Boron's Function in the Plant

- It is important in pollination and seed reproduction.
- Maintains a balance between sugar and starch.
- It is essential for proper cell wall formation.
- It plays a vital role in the proper function of cell membranes and the transport of potassium to guard cells for the control of internal water balance.

## Molybdenum's Function in the Plant

- It functions in converting nitrates ( $\text{NO}_3$ ) into amino acids within the plant.
- It is essential to the symbiotic nitrogen-fixing bacteria in legumes.
- It is essential to the conversion of inorganic phosphorus into organic forms in the plant.

## Guaranteed Analysis (w/v)

Nitrogen (N)	6.0%
Molybdenum (Mo)	0.3%
Boron (B)	14.7%
Specific Gravity	1.387 kg/L
pH Range	7.0 - 8.0

## Typical Application Rates

### Foliar:

1 - 5 L/ha as required  
Horticulture use 200 to 2,000 L/ha water  
Broadacre use at least 100 L/ha water



NEW

# Boost Your Crop with a Fully Loaded Product



# Winter Boost™

Product Code: GG0179

A 50 L/ha application of Winter Boost will apply 100g of zinc, 50g of manganese, and 25g of copper, as well as 1.1kg of calcium and over 19kg of nitrogen.

## Benefits of Winter Boost™

- Foliar applications are highly efficient, are taken in by foliage, and eliminate the need to wait for rainfall.
- Nitrogen is essential in the normal functioning of a plant. Vigour, yield and quality are all affected by the nitrogen supply.
- Calcium is used in cell division and formation. Calcium interacts with nitrogen metabolism and aids in normal photosynthesis.
- Zinc is needed to encourage root growth and reduce crop losses in water stress environments. Zinc is required in carbohydrate formulation. Crops with zinc applications have shown lower incidents of root rot and leaf disease.
- Manganese aids in chlorophyll synthesis.
- Copper plays a major function in photosynthesis and plant reproduction stages.

## Guaranteed Analysis (% w/v)

Nitrogen (N)	38.5%
N as nitrate	10.9%
N as ammonium	9.2%
N as urea	18.4%
Calcium (Ca)	2.2%
Manganese (Mn)	0.1%
Zinc (Zn)	0.2%
Copper (Cu)	0.05%
Specific Gravity	1.345 kg/L
pH Range	4.0 - 6.0

## Typical Application Rates

### Foliar:

40 - 50 L/ha  
with water to a total of 80 L/ha



# Fluid Fertiliser Storage Systems

The team at SLTEC® have conducted extensive research into storage and handling systems and can assist you in designing and implementing your liquid nutritional program.

Well designed fluid fertiliser storage and injection systems are essential to ensuring your fluid inputs are effectively utilised, to maintain your workforce safety, and to minimise environmental impacts.

## SLTEC® Fluid Fertiliser Tanks



### Cone Bottom Tanks

**Features include:**

- 12,000 litre tank
- Rated for all SLTEC® Fluid Fertilizers (up to specific gravity of 1.9 kg/L)
- Easy to relocate with standard farm machinery
- Arrives setup and ready to use, fitted with 2" banjo fittings
- Clear sight gauge strip providing a safe and accurate volume indicator
- Cone-bottom design will allow the tank to empty completely.
- **Note:** Also available in double and triple configuration on an axle to make transportation between farms easy

### Free Standing 32,000 L Tank

**Poly Tank complete with:**

- Manhole & safety lid
- Banjo fertiliser resistant fittings
- 3" camlock infill / outlet and air vent assemblies
- Stainless steel sight gauge assembly
- Bottom sump & 1" drain valve enabling 100% drainage
- Strong poly base to support and fittings

Tank available for purchase or rental.



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