

# AminoKelp Premium

**GrowGreen**  
FERTILISER

**A microbial digested blend of amino acids, seaweeds with macro and micronutrients.**

## PRODUCT DESCRIPTION AND CHARACTERISTICS

AminoKelp® Premium is an organic microbially active fertiliser; it is packed with vital amino acids and growth hormones. It also contains a full spectrum of macro and micronutrients. The inclusion of both amino acids and plant growth hormones increases the efficiency of the product exponentially. This product has been designed to be used as a foliar fertiliser; however, it can also be used ins soil applications.

## AMINO ACIDS

Amino acids play a key role in protein synthesis as well as performing essential functions in primary and secondary plant metabolism processes.

Supplementation through foliar or soil applications has profound positive impacts on plants, notably better growth and higher yields; symbiotic relationships in the soil foster improved microbiology in the root zone. Adding high quality, amino acids in forms plants can assimilate (L-shaped) decreases the available energy used for amino acid synthesis, allowing plants to utilize it elsewhere.

AminoKelp® Premium contains all of the amino acids that are involved in protein formation. This guarantees a supply with the units to form whatever protein needed by the plant to deal with any situation of stress.

## PLANT HORMONES

Cellular processes within the plant are regulated by chemicals known as hormones. Hormones are defined as *“an organic compound produced naturally in higher plants, controlling growth or other physiological functions at a site remote from its place of production and active in minute amounts.”*

Plant metabolism is mainly controlled by 5 major hormones:

**Auxins** are known for its role in stimulating cell elongation. Auxin is found in actively growing areas of the plant.

**Cytokinins** control cell division and differentiation, but also leaf senescence, nutrient mobilization, floral development, bud dormancy, and seed germination.

**Gibberellins** stimulates cell elongation, bolting and breaking the dormancy in seeds and bud

**Abscisic Acid** it maintains the dormancy of both seeds and buds, inhibiting shoot growth, and protecting plants from water loss by closing leaf stomata.

**Ethylene** is responsible for fruit ripening, leaf abscission, and sex expression in flowers.

AminoKelp® Premium contains all of the above hormones. They are sourced from different seaweed extracts. During the manufacturing of the product, any hazardous chemical, including strong acid/alkali have been used. This ensures that the molecular structure of the hormones maintain their natural shape.

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Adding AminoKelp® Premium to a traditional fertiliser program increases overall plant health and quality to provide higher yields, improves soil structure and microbiology, and helps to reduce inorganic inputs.

## CHEMICAL ANALYSIS

Element	Form	Content
Nitrogen (N)	as protein	0.45%
Phosphorus (P)	as protein	1%
Potassium (K)	as molasses	0.35%
Sulphur (S)	as protein	0.12%
Calcium (Ca)	as protein	0.25%

## USES AND APPLICATIONS

Crop	Application Rate l/ha	No. of Applications	Timing
Horticultural crops	1.5 – 2 L	3 – 4	- Pre flowering - Post flowering - Fruit enlargement
Broad acre winter crops	1.5 – 2 L	1 – 2	- Mid tillering - Grain filling stage
Broad acre summer crops	1.5 – 2 L	2 – 3	- Pre flowering - Post flowering - Grain filling stage
Annual & perennial pasture	2 – 3 L	3 – 4	- Post grazing

## PACKAGING

AminoKelp® Premium is available in 20 Litre bottles or 1000 Litre (IBC) containers.

