

AminoKelp

LIQUID NUTRIENT FERTILISER

A microbial digested blend of amino acids, kelp and macro/micro nutrients



INTRODUCTION

AminoKelp is a liquid fertiliser that can be applied as both, soil fertiliser and to the plant leaves through fertigation. It incorporates the benefits of two GrowGreen products, AminoElite® and Microbe Plus® Kelp.

AminoElite® is a soil and foliar fertiliser which is produced after the microbial digestion of sea fish and crustaceans. This fertiliser has a unique profile and concentration of amino acids, the building block of the proteins and hence essential for plant growth.

On the other hand Microbe Plus® Kelp is a liquid fertiliser which incorporates two different seaweed species that have been microbially digested. It also incorporates plant nutrients and beneficial fungi and bacteria. The seaweed in Microbe Plus® Kelp are loaded with different plant hormones and biostimulants, the two chosen species have been thoroughly selected in order to provide the product with a full range of plant hormones.

Thus AminoKelp will supply the plant with amino acids, the products of the seaweed digestion and a complete spectrum of plant macro and micro nutrients.

The combination of these three features will enhance plant growth with greater vigour and eventually will lead in an increase of yield and quality.

AMINO ACID (AA) ANALYSIS (MG/L) AND BENEFITS

AminoKelp contains minimum 3.5% (w/v) Amino Acids with the approximate composition of:

AA		Metabolic functions of AA
Aspartic Acid	7.6%:	Seed germination
Threonine	4.1%:	Improve drought tolerance
Serine	5.7%:	Chlorophyll production, Stomata regulation, Improve Pollination
Glutamic Acid	11.3%:	Chlorophyll production, stomata regulation, pollination, seed germination
Proline	7.1%:	Heat, Salt, and Drought tolerance
Glycine	21.6%:	Chelation, Heat tolerance, Chlorophyll production
Alanine	10.3%:	Chlorophyll production, seed germination
Valine	4.4%:	Drought tolerance, seed germination
Methionine	2.3%:	Ripening, stomata regulation
Isoleucine	3.1%:	Salt and Drought tolerance, Pollination
Leucine	5.7%:	Salt and Drought tolerance, Pollination
Phenylalanine	0.8%:	Plant reproduction, development, and defence against stresses
Histidine	1.8%:	Aids fruit ripening
Lysine	5.7%:	Chlorophyll production, seed germination
Arginine	4.8%:	Root development, induces Flowering and Fruiting Hormones
Tyrosine	2.2%:	Drought stress tolerance, Pollination, Pollen germination

• Being a microbial product the concentration of the different amino acids may vary.

BENEFITS OF USING AMINOKELP

AminoKelp has been designed to be used in all the different types of crops as it helps plants to build resilience and overall vigour. It also helps the crop to deal with both biotic and abiotic stress e.g. insect attack, foliar and root disease, drought, frost, heat sunburn etc.

AminoKelp will help to reduce the inconvenience of a "hidden hungry" as it incorporates essential trace elements.

As the product incorporates the benefits of AminoElite® and Microbe Plus® Kelp, AminoKelp simplifies field application with a remarkable cost reduction.

By providing these benefits the plant is capable of growing to its genetic potential.

OPTIMISING RESULTS

Use with GrowGreen's Xtend® plant oil adjuvant for optimum results. Xtend® will maximise the result by reducing drift and increasing adherence to the sprayed surface.

SHELF LIFE & STORAGE

- 12 months from the manufacturing date.
- AminoKelp should be stored at ambient temperature.
- Should be stored in a well lit area so the microbial process continues.

COMPATIBILITY & USE

AminoKelp can be mixed and applied with most commonly used pesticides, however we strongly recommend checking labels for compatibility as well as pre testing in a small area prior to widespread application.

AminoKelp is rainfast in 15 minutes. We suggest not applying if rain is expected shortly after application.

PACKAGING

AminoKelp is available in the following containers:

- 20L and 1000L

GrowGreen Pty Ltd

6089 Cunningham Hwy, Kalbar, Qld 4309

GrowGreen Pty Ltd makes no express or implied warranty regarding the storage, handling, use or results obtained from using this product (excluding statutory warranties).

ANALYSIS (W/V)

Nutrient	Form	Analysis (W/V)
Nitrogen (N)	as protein	0.80%
	as nitrate	0.20%
	as urea	1.80%
	as ammonium	0.20%
	TOTAL	3.00%
Phosphorus (P)	as water soluble	0.70%
Potassium (K)	as protein	0.30%
	as phosphate	0.20%
	TOTAL	0.50%
Sulphur (S)	as sulphate	0.55%
Magnesium (Mg)	as sulphate	0.02%
Zinc (Zn)	as sulphate	0.07%
Manganese (Mn)	as sulphate	0.03%
Iron (Fe)	as sulphate	0.005%
Boron (Bo)	as sodium borate	0.04%
Molybdenum (Mo)	as sodium molybdate	0.01%
Cobalt (Co)	as sulphate	0.0025%

APPLICATION RATES

AminoKelp can be applied as either a foliar, down the line at planting or through fertigation.

(As per AminoElite® brochure)

Crop	App. Rate/ha	No. of applications
Horticultural crops	1.5 - 2ltrs	3-4 foliar applications; pre flowering, post flowering & fruit enlargement stage
Broad acre winter crops	1.5 - 2ltrs	Liquid injection at seed sowing stage, 2 foliar applications (mid tillering & booting - grain filling stage)
Broad acre summer crops	1.5 - 2ltrs	2-3 foliar applications; pre flowering, post flowering & grain filling stage
Annual & perennial pasture	2 - 3ltrs	3-4 foliar applications post grazing

To be diluted in a minimum of 100L of water/ha

- We recommend to foliar spray to point of run off. Application rates may vary depending on soil and leaf analysis. The above should be used as a guide only.

Avoid spraying in high temperatures and high UV.

For information about specific application rates, please contact our technical staff.

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