

PRODUCT SPECIFICATION

1.0 SCOPE

This document describes the product specification for the product VitaFlora.

2.0 PRODUCT DESCRIPTION

- VitaFlora is a balanced NPK solution containing all the essential plant nutrients, both macro & micro elements that most plant needs.
- VitaFlora has a unique pH buffering capability that ensures that the pH of the ready mixed solution always stays between pH 5.5 and 6.5 where plants take up nutrients.
- VitaFlora is regarded as a semi-ecological (NOT semi-organic) product, as the pH buffering ensures that minimal or no leaching of nutrients into the soil which is of significant environmental importance.
- Another benefit contributed by the pH buffering ability, allows VitaFlora to be applied at High Nutrient Concentration levels (E.C.) which provides a very wide safety margin to eliminate the possibility of leaf burn.
- VitaFlora is manufactured following a patented mixing formula with strict commitments to using quality raw material and filtering to ensure a clean product that will not clog any spraying equipment.

2.1 Product Name

Product Name	Part Number
VitaFlora	NGT-VF-Axxx ¹

2.2 Product Characteristics

Parameters	Range / Value	
pH (in concentrate)	2.0 - 3.0	
Density	1.2 g/cm ³	
Odour	None	
Colour	Green	
Chemical Composition	Nitrogen (N)	8.9%
	Phosphorus (P ₂ O ₅)	5.5%
	Potassium (K ₂ O)	5.1%
	Calcium (Ca)	1.6%
	Magnesium (Mg)	0.29%
	Sulphur (SO ₄)	0.46%
	Iron (Fe)	0.006%
	Copper (Cu)	0.005%
	Manganese (Mn)	0.006%
	Boron (B)	0.007%
	Zinc (Zn)	0.002%
Molybdenum (Mo)	0.001%	

¹ Axxx – where xxx indicates the product volume, e.g. 010 – 10 LTR

3.0 PRODUCT REQUIREMENTS

3.1 Application

Product - VitaFlora	Description
Rate of Application	1.0 - 2.0 Ltr per Hectare
Application Method	VitaFlora is mixed with water and applied as a foliar spray, drip fertiliser or as a soil conditioner using any Agricultural Application Equipment - Recommended nozzle size: 100-300 micron - Recommended Bar pressure: 2-10 bar
Frequency of Application	Depending on crop, but in general 3-6 times from vegetative growth cycle to harvest
Timing of Application	Early morning or late afternoon when temperatures are ranging between 8 and 20°C, and hygrometry > 60%

3.2 Storage

Product - VitaFlora	Reason
Store in a cool, dry, dark area, out of direct sunlight and away from other sources of heat. Preferably below 30 °C for keeping maximum quality	VitaFlora can crystallize if exposed to direct sunlight, stored for longer periods in a bright area, or in lower temperatures <0 °C
Keep away from metal and non stainless steel, as product is corrosive. Use corrosion-resistant structural materials and lighting and ventilation systems in the storage area	Walls, floors and shelving in storage areas should be made from materials that resist attack of corrosion
Store separate from other chemicals	Always store fertilizer and plant nutrients far away from other chemicals such as pesticides and herbicides
Keep only in containers designated for VitaFlora	To eliminate cross contamination
Keep containers closed when not in use	To eliminate evaporation

3.3 Packaging and Handling

Product - VitaFlora	Reason
VitaFlora is only suitable to be packed in Plastic containers	VitaFlora is corrosive to all Non Stainless Steel material
The dimensions depends on the market requirements, but most common sizes for commercial use are: 5, 10, 20 , 200 and 1,000 Ltr	
No specific handling requirements necessary	
Safety glasses and gloves should be worn if spillage occurs	

3.4 Examples of Product Packaging

Plastic Cubes <ul style="list-style-type: none">• 1 Ltr - Only for Samples• 5 Ltr• 20 Ltr	
Domestic Packaging <ul style="list-style-type: none">• Ready to Use (RTU) - Spray Flask• Concentrate for RTU re-fill	
Plastic Drums <ul style="list-style-type: none">• 200 Ltr	
Plastic Shuttle Container <ul style="list-style-type: none">• 1,000 Ltr IBC	