



# HydraFlow

# IRON 7

7% Iron as EDTA / Carboxylate

HydraFlow Iron 7 is a formulated complex to give extra protection and availability to the iron molecule to assist in preventing and correcting deficiencies in horticulture, orchards, vineyards and broadacre cropping.

The timing of Iron applications is most critical to ensure maximum production and quality from any crop. Applications as early as possible in the plants growth cycle will ensure enough iron is present to cater for the plants physiological needs. Iron should be applied if deficiencies are already known.

The EDTA/Carboxylate ratio is specially designed for the unusual chemistry of Iron. Iron existed in two valency states: Ferrous and Ferric. EDTA has a high stability for Ferrous Iron and Carboxylate has a high stability for the Ferric. This unique formulation will ensure the maximum available Iron will be received by the plant.

### THE FUNCTION OF IRON

Plants need iron to produce chlorophyll and to activate several enzymes, especially those involved in the oxidation / reduction processes of photosynthesis and respiration.

### THE FUNCTION OF CARBOXYLATES

Chelated trace elements are designed to give protection in soil profile and in tank mix applications. The chelated Iron in this form will give maximum availability, greater control and flexibility to the operator.

### THE FUNCTION OF EDTA CHELATES

A chelate is an organic structure which has ligands (fingers) that wrap around the individual trace element protecting it from chemical attack, decomposition and the influence of pH. The result of this protection is increased availability, solubility and stability, so no lock-up occurs in the soil or spray tank mix. The amount of ligands and level of protection will vary from chelating agent to chelating agent. The EDTA complex is unique, as it has four (4) ligand (finger) sites for chelation. This means the stability of these complexes across the trace element spectrum is extremely high under influences such as pH, temperature and decomposition.

GUARANTEED ANALYSIS		W/V%	W/W%
Iron	(Fe)	7.00	5.50

CROP	RATE: L/ Ha	WATER*
Vines	3 - 6	1 : 100 - 200
Broadacre	2 - 4	1 : 20 - 40
Vegetables	3 - 6	1 : 100 - 200
Tree Crops	5 - 8	1 : 100 - 400

A dilution of 1 : 100 means 1 part product : 100 parts water. In hot weather, use the higher dilution rate where applicable.