



# humics catalogue





# HUMICS RANGE

## Integral improvement of soil fertility

Tradecorp's range of Humic Acids are formulated from American Leonardite, the original, most researched, and premier source of supplementary Humic Acids for use in agriculture. Tradecorp Humic Acids have a direct and positive effect on the Physical, Chemical and Biological characteristics of soil, enhancing root development, absorption of nutrients and crop quality and yield.

### PHYSICAL IMPROVEMENTS: IMPROVED SOIL STRUCTURE

A clay-humic complex is formed and provides increased cohesion to structural soil aggregates, which means:

- Enhanced soil aeration and reduced soil compaction
- Increased water retention capacity, thus efficient response to hydric stress
- Formation and development of an improved root system
- Resistance to erosion
- Reduced nutrient leaching

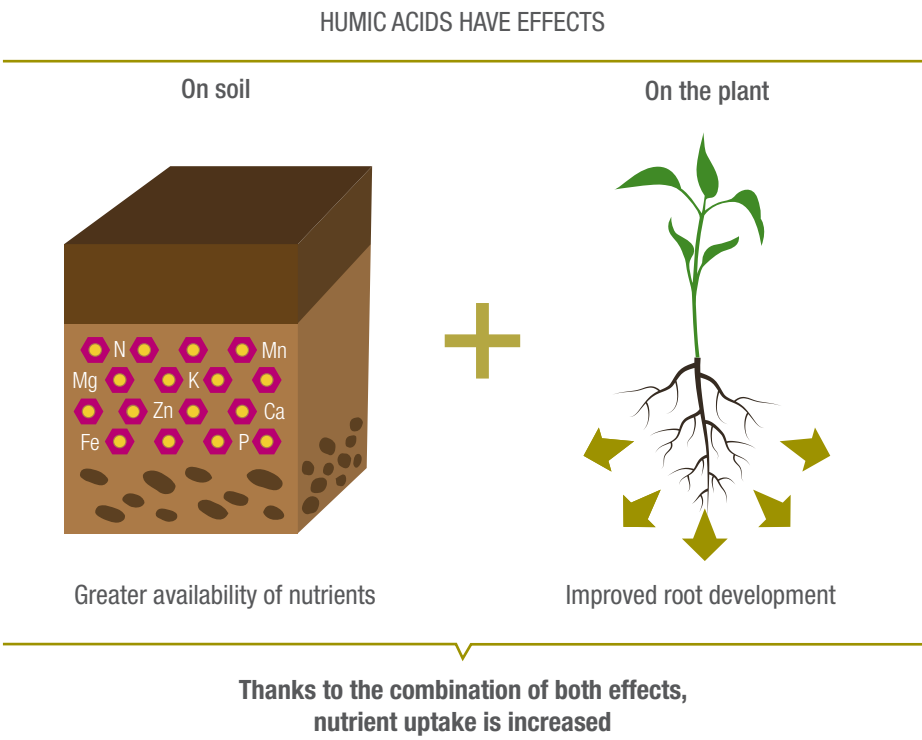
### CHEMICAL IMPROVEMENTS: GREATER AVAILABILITY OF NUTRIENTS

The low plant use efficiency in the application of mineral nutrients and the immobilization and losses of micronutrients and macronutrients in soil constitute a challenge for efficient and sustainable agriculture. Tradecorp's Humic Acid range provides greater optimization and efficiency in the use of resources available for crops:

- Increased Cation Exchange Capacity
- Reduced soil fixation and precipitation of added Phosphorus, making it available for plant uptake
- Increased nutrient availability and uptake, contributing to reduced risks of deficiency

### BIOLOGICAL IMPROVEMENTS: ROOT DEVELOPMENT

- High quality Humic Acids contain no hormones yet have a similar root stimulating effect
- Root biomass is increased
- Secondary root development is stimulated





# WHY HUMIC ACIDS FROM TRADECORP?

## BROAD KNOW-HOW IN THE MANUFACTURE OF HUMICS

Tradecorp was a pioneer in the manufacture and use of Humic Acids in agriculture in Spain in the 80's.

Thanks to our broad experience, we have optimised and perfected our processes and technology, allowing the manufacture of high quality products and the formulation of a Humic Acid portfolio of the highest agronomical efficiency.

## EXPERTISE IN THE USE OF HUMIC ACIDS, BACKED BY PRESTIGIOUS RESEARCH CENTERS AND UNIVERSITIES FROM AROUND THE WORLD

The investigations and studies have shown the efficiency of Tradecorp Humic Acids and have allowed the development of new formulations based on Humic Acids.

## AMERICAN LEONARDITE, MAXIMUM QUALITY RAW MATERIAL

American Leonardite is recognized as the best source for the extraction and manufacture of Humic Acids. The main benefits of this raw material are:

- High concentration and optimum balance between Humic and Fulvic Acids
- Greater content in carboxylic groups
- High bioactivity
- Long persistence in soil
- Consistency and quality of supply due to its North American origin

## SUITABLE FOR USE IN ORGANIC AGRICULTURE

In line with with Tradecorp's commitment to sustainability, many of our products, including some of our Humic Acid range are suitable for Organic Agriculture.





# PRODUCTS

## humifirst



Concentrated liquid Humic and Fulvic Acids derived from American Leonardite, 100% soluble with no insoluble particles



## humifirst opti



Concentrated liquid Humic and Fulvic Acids with pH optimised for spray tank mixing compatibility



## humifirst WG



100% instantaneously soluble concentrated micro-granule of Humic and Fulvic Acids derived from American Leonardite with no insoluble particles



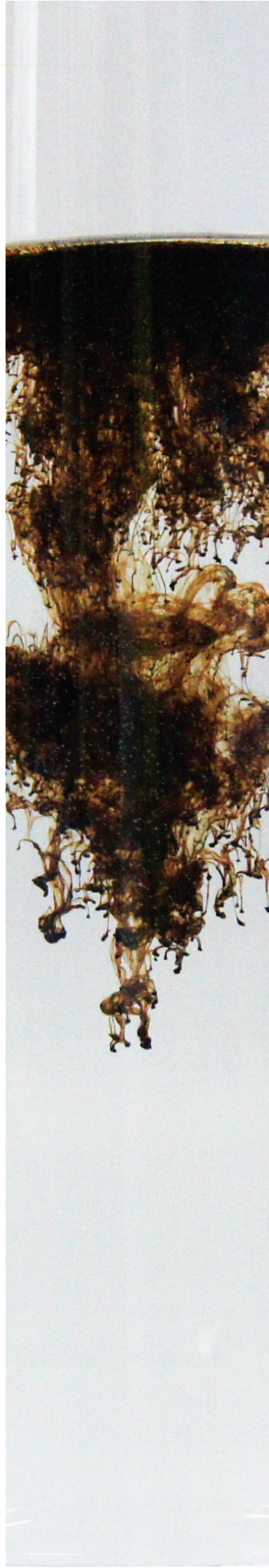
## turbo root WG



Complete starter fertilizer containing Humic Acids, L- $\alpha$  Amino Acids, NPK and EDTA micronutrients, 100% soluble



If you would like to have more information about Tradecorp Humic Acids or about our studies and trials, contact your local Tradecorp representative or [australia@tradecorp.sapec.pt](mailto:australia@tradecorp.sapec.pt).





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