



# H-85<sup>®</sup>

**85% HUMIC AND FULVIC ACID. SOLUBLE POWDER FOR FERTIGATION / SOIL APPLICATION**

**Group 2 Fertilizer Reg No. B 3767 Act 36 of 1947**

Batch number zzz **10 kg nett**

## COMPOSITION

**Humic acids derived from Leonardite (fulvic and humic acids)  
Approximately 20% fulvic acid and 65% other humic acids.**

**850 g /Kg**

## GENERAL INFORMATION:

**H-85** is a highly soluble humic acid powder extracted from North Dakota Leonardite. Humic acids are the principal component of organic matter in an advanced stage of decomposition and not all sources are equally effective. Fulvic acid is a low molecular weight form of humic acid but is soluble over the whole relevant pH range. Humic acids encourage microbial activity and form complexes with many plant nutrients aiding uptake.

The action of H-85 in soil is summarized below

- H-85 increases the soil cationic exchange capacity in the drip area
- H-85 creates a reserve of nutrients for the plants.
- H-85 improves soil crumb structure and reduces the leaching of nutrients especially in sandy soils by assisting the formation of better aggregates.
- H-85 improves the absorption of nutrients already present in the soil in the drip area
- H-85 encourages higher microbial activity in the soil, including N fixing bacteria in the drip area.

H 85 can also be applied as a foliar spray and will result in better penetration of foliar fertilizer, herbicides and fungicides into the leaf..

H 85 can be used as a seed treatment and will promote germination and the overall health and vigor of young plants.

## APPLICATION RECOMMENDATIONS:

Crop	Rate kg/ha	Applications and Timing
Vegetables	10 – 15	Throughout crop cycle.
Grain Crops	5 - 10	At planting and flowering.
Ornamentals	15 - 20	Throughout crop cycle.

### USE DIRECTIONS:

**H-85** can be applied by irrigation (surface, drip, etc.) or by foliar spray.

Application rates depend on the stage of crop development. In general, bigger and older crops require higher rates. Nevertheless, it is always best to apply in a series of two or three applications with an interval of 10 to 14 days between each. In general, we prefer that the product be used as part of a specifically designed Cosmocel nutritional program based on reliable soil and tissue analysis.

To obtain better dispersion and penetration of the product, we recommend the addition of 1ml WetCit per liter of water to the mix.

For seed treatment, use from 2 to 4 grams for each liter of water of the solution, immerse the seed for 6 to 8 hours, leave to dry and sow immediately. Dip the roots of plantlets before transplanting in a similar solution.

### COMPATIBILITY

**H-85** is compatible with most agro chemicals and nutrients in common use, except for those with pH lower than 4. However, **DO NOT MIX WITH CALCIUM NITRATE** or other products formulated with a high calcium content. **H-85** appears to dissolve in water but actually forms a colloidal suspension. When doubt of a mixture, make up a small quantity and check for precipitation.

### SAFETY INSTRUCTIONS:

**HANDLING:** Use the recommended safety equipment (overalls, safety glasses, and mask). Do not eat or smoke during the applications.

**WARNING:** Avoid contact with eyes and skin.

**FIRST AID:** Product may cause skin and eye irritation. If swallowed, provoke vomiting, introducing one finger in the throat. Consult a physician.

**ENVIRONMENTAL PROTECTION MEASUREMENTS:** Dispose of all waste in accordance with applicable government regulations. Do not pollute water bodies, especially those with fish or where the water is used for animal or human consumption.

**STORAGE:** Do not store or ship with food, clothes or fodder. Store in a cool, dry place.

**WARRANTY:** Since weather, crops, soil, and other conditions may vary, the seller makes no warranty of any kind, express or implied, concerning this product. The user assumes all risk of use and handling whether or not in accordance with directions or suggestions.

Manufactured in Mexico by Cosmocel SA and distributed in South Africa by by  
COSMOCEL SPECIALZED NUTRITION (Pty) Ltd, Co. Reg no  
2005/002029/07  
POSTNET SUITE 378, PRIVATE BAG X 4019, TZANEEN, 0850.  
Cosmocel SA has ISO 9002:2000 certification.