



**Balanced, Sustainable Plant Nutrition and Soil Care**

## **AGRISENSE HUMIC ACID**

**Soluble Humic Acids 87% Potassium Humate**

**Humic Acids** are the end result of long-term Organic Matter decay. Their applications to soils/crops have gained a lot of interest recently. While much has been made of their chemical ability to increase cation exchange, very little has been said of their value as a **food source for beneficial soil fungi**. Regular applications of **AgriSense Humic Acid** to a biologically depleted soil in conjunction with the right inoculum will accelerate dramatic changes in soil ecology.

Many traditional Humic Acid products have problems like low concentration, difficulty of application, clogging fertigation systems, low solubility not to mention cost. On the other hand **AgriSense Humic Acid is cost effective** offering immediately available form of humus.

### **PROPERTIES AND BENEFITS**

**1. AgriSense Humic Acid** is a soluble Humic Acid material. It is derived from high quality Leonardite. It delivers immediate supplies of readily available, high quality, dust free, odourless, highly soluble, and cost effective forms of Humic Acids.

**2. AgriSense Humic Acid** can be applied by mixing with fertilizers, spraying it on foliage/soil surface, injection into irrigation systems, etc... It can be applied when no other forms of Organic Matter (compost, manure, green manure, etc...) can be feasibly applied.

**3. AgriSense Humic Acid** has an average CEC (nutrient holding capacity) of 400 meq/100gr. This exceeds the average CEC of Australian soils by nearly 100 times.

**4. AgriSense Humic Acid** increases the availabilities and reduces leaching of applied fertilizers and native nutrients, including major, secondary, and trace elements.

**5. AgriSense Humic Acid** helps create a good soil environment for both roots and beneficial micro-organisms resulting in a healthier rhizosphere, better biochemical symbiosis, and a better crop performance.

**6. AgriSense Humic Acid** is ideal for all soils (acid or alkaline); especially those with low organic matter (less than 3%).

**7. AgriSense Humic Acid** reduces nutrient lockup in the soil by inducing a steady process of natural chelation and stimulating mycorrhizal fungi.

**8. AgriSense Humic Acid** can be added to pesticides, herbicides, fungicides, biological formulations, hormones, and foliar nutrients. It is safe for humans, farm animals, and wildlife. It is non-phytotoxic and does not produce any environmental hazards.

## **DIRECTIONS FOR USE**

### **PRODUCT HANDLING AND PREPARATION:**

For quick and easy dissolution of **AgriSense Humic Acid**, sprinkle desired amount on water (before adding chemicals), and allow a few minutes. Larger amounts of **AgriSense Humic Acid** will dissolve slowly. For best results leave overnight in warm water and stir prior to use. Where moderately hard water is used, allow more time for full dissolution. Strain prior to injection in fertigation systems or spray tanks.

### **RATES OF SOIL APPLICATION:**

**Field Crops:** (Carrot, Cotton, Lettuce, Brassicas, Onion, Melons, Tomato, Capsicum, Eggplant, Potato, etc...): 1-2 kg/Ha with 1st irrigation. Repeat 4-6 weeks later.

**Greenhouse Vegetables and Cut Flowers:** 100 gr/500 sqm with NPK fertilizers. (Same for outdoor Cut Flowers).

**Landscaping:** 0.5 kg per average size back yard (i.e.500sqm) 3-4 times a year. Dilute in 20-40 litres and spray over lawn and flowers, vegetable beds, and fruit trees.

**Nurseries:** 100 gr/500 sqm every 2-3 weeks.

**Orchards and Vineyards (established or new):** 5-8 kg/Ha/growing season, best given in monthly split applications (beginning early spring via fertigation or overhead injection).

**Seed-Raising Mixture:** 100-200 gr/Cubic meter.

**Transplants:** Dip roots in a solution of 30 gr/20 Lt water prior to transplanting

**Turf:** 1-2 kg/Ha with crop establishment. Repeat every 4-6 weeks. As a general rule of thumb, apply **AgriSense Humic Acid** at 3-5 kg per Ha/season in monthly applications. **AgriSense Humic Acid** can however be used quite liberally; higher rates will result in higher benefits. Above applications are best injected via fertigation, furrow irrigation, pivot, or overheads. In the absence of injection facilities, spray above rates on soil before irrigation or cultivation.

**AgriSense Humic Acid** can also be foliar-applied (@200-250 gr/Ha) mixed with chemicals in spray vats.

### **COMPATIBILITY:**

**AgriSense Humic Acid** is incompatible with Calcium fertilizers and hard water.

**AgriSense Humic Acid** is compatible with most pesticides, fungicides, herbicides, biological formulations and NPK fertilizers and Trace Elements.



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