

## Super Potassium Humate Technical Data Sheet

### Product Description

**Super Potassium humate** is refined [potassium humate](#), has good water solubility, can be used as foliar spray and drip irrigation.

### Main Specification



Appearance	Black Black Flake	Black Powder
Product code	SHA-KHA-1-F	SHA-KHA-1-P
Water-solubility	100%	100%
Potassium(K <sub>2</sub> O dry basis)	10.0% min	10.0% min
Moisture	15.0% min	15.0% min
Humic Acid(dry basis)	70.0% min	70.0% min
Fulvic Acid(dry basis)	1% min	1% min
PH	9.0-10.0	9.0-10.0
Mesh	/	60
Partical size	2-4mm	/

### Main Function

1) Greatly increase the soil fertility, especial mixed with Urea, DAP, MAP, MKP. With faster and obvious effect.

2) Increase the organic matter of soil and improve soil structure, accordingly largely promote the buffering power of soil.

There two kinds of soil, sandy and heavy. In sandy soil nutrients are easy to lose, [humic acid](#) could help to stabilize these nutrients and convert them into

plants adoptable form, in heavy soil humic acid can increase the capacity of colloid thus preventing soil surface cracking. Humic acid can help to create crumble form to increase water holding capacity and its aeration. Humic acid could chelate the heavy metal thus avoid them absorbed by plants.

3) Regulate PH of soil and increase soil fertility.

The optimum pH range for most plants is between 5.5 and 7.0, Humic acid has direct function to balance the pH of soil, to make soil pH suitable for plants growth.

**Humic acid** in **Potassium humate** could largely stabilize nitrogen storage and slow release, P is released from AL<sup>3+</sup> in soil, also other microelement is in the form of easy-available by plants, meanwhile the beneficial fungi is active to produce different kind enzymes. to help to create a crumble structure of soil to increase macro elements and micro elements binding capacity and water holding capacity, thus increase soil fertility.

4) Create good living environment for microbial mass.

**Potassium humate** could directly improve soil structure thus to create good environment for microbial mass living environment, thus these microbial mass production will help to improve soil structure.

5) Promote the development of chlorophyll, sugars and amino acids in plants and aid in photosynthesis.

6) Promote seed germination in short time, greatly increase harvest and fruits quality.

**Potassium humate** maximize macro and micro elements absorption like nitrogen, the slow release. Phosphate will be greatly released from Fe<sup>3+</sup> and Al<sup>3+</sup> from soil. As to micro elements humic acid will chelate them into plant adoptable form and then optimize their absorption, also improve soil structure will nourish beneficial micro fungus which will also help soil to increase soil fertility and water holding capacity, thus will greatly increase harvest. Enhanced cell assimilation as well as photosynthesis increase the plant's sugar and vitamin content, thus the quality of their seeds will be largely increased.

7) Greatly increase plants capability counter stress and disease.

Humic acid can mobilize K absorption to regulate the stomata open and close on the leaves also promote metabolism, thus increase the plants' ability under stressed conditions.

### **Uses**

Base fertilizer: 5-10kgs/ ha, suggested mix with N, P fertilizers. Mixed with Nitrogen fertilizer: 5% of total blend ie. 5kgs of potassium humate per 100kgs of Urea. Also it depends on the soil condition.

Soil irrigation: 5-8kgs/ha/time

Caution: Before transferring to drip irrigation tank we suggest dissolve this humate in a small tank and filtering .

### **Package**

- 1) Woven bags with poly bags inside 25kgs net weight,
- 2) Could also provide according to customer's requirement.

### **Contact Details**

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