

# ActivHume-S™

Multifunctional Bio-Geo-Chemical  
Catalyst for Soil Application  
with Bioactive Sulfur

## Supercharge Your Soil's Engine.

ActivHume-S is a dry granule combining patent-pending ActivHume with bioactive sulfur. It contains the same organic and mineral constituents as ActivHume plus sulfur in three forms - elemental sulfur, polysulfide and thiosulfate – to bring synergetic benefits.

ActivHume-S is compatible with most dry fertilizers and micronutrients and can be spread by itself or dry blended with other fertilizers.

ActivHume-S works with common fertilizers or by itself to build and strengthen the natural bio-cycle within the soil as well as to improve nutrient holding capacity in the soil and nutrient uptake by the plants. Additionally, bioactive sulfur provides benefits over a long period of time. Soluble thiosulfate is rapidly available for plants; soluble polysulfide and insoluble elemental sulfur slowly convert into plant-available sulfates due to natural bio-chemical processes. Thanks to the buffering capacity of ActivHume, ActivHume-S does not acidify the soil like traditional sulfur containing fertilizers.

Once placed in the soil, ActivHume-S begins to dissolve and work biologically, geologically and chemically.

- **Biologically:** *ActivHume-S stimulates microbial activity as well as root and plant growth*
- **Geologically:** *ActivHume-S rebuilds soil structure, organic matter and native minerals, leading to better soil porosity, water-holding capacity and reduced compaction*
- **Chemically:** *ActivHume-S increases CEC, helping to hold vital nutrients in the soil for plant use*

## The Superior Product:

- **Innovative:** No similar products on the market
- **Active:** Designed for optimum bio, geo and chemical activity
- **Flexible:** Can be dry-blended with most dry fertilizers and micronutrients, or spread by itself
- **Effective:** Across all soil and plant types
- **Universal/Comprehensive:** Positively affects all soil constituents, bio-geo-chemical processes and crops, resulting in higher yield and produce quality (protein, carbohydrates, vitamin contents, etc.)
- Excellent source of time-released sulfur for plants





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## Agricultural benefits include:

### SOIL

- Increased soil organic matter content and native soil minerals
- Converts clay and sandy soil to aggregated soil type
- Increased soil water holding capacity
- Increased bio-activity from native microbes and suppressed pathogens
- Increased decomposition of agrochemical pollutants
- Reduced soil compaction

### PLANTS

- Increased fertilizer utilization (slow release and increased absorption by soil organic and mineral matter) resulting in less leaching
- Reduced impact on plants from heavy metals, pesticides and other toxins
- Higher potential crop yields and quality
- Increased sugar, starch, oil and protein
- Increased stability under drought and other negative climatic and ecological conditions
- Reduced nitrates, pesticides and heavy metals in edible produce

## Organic Content:

Total organic matter content: approximately 35% (on dry basis), including:

- Humic acid: 30%
- Fulvic acid and other organics: 5%

## Mineral Content:

- Sulfur content: 45-50% (in elemental sulfur, polysulfide and thiosulfate forms)
- Phosphorus (as P<sub>2</sub>O<sub>5</sub>): n.d.
- Potassium (as K<sub>2</sub>O): <0.10%
- Iron (Fe<sub>2</sub>O<sub>3</sub>): 0.35%
- Magnesium (MgO): 1.02%
- Manganese: <0.02%
- Boron: <0.02%

## Properties

- **Physical state:** Solid
- **Color:** Gray, yellow
- **Odor:** Low, light earthy and sulfurous
- **Granule Size:** 1/3 - 1/5" (5-8mm)
- **Bulk Density:** 42 lbs./ft<sup>3</sup>
- **Moisture:** Approximately 15%
- **pH (at ratio 1:2.5 v/v):** 10 - 11
- **Freeze Point:** n/a
- **Boiling Point:** n/a
- **Compatibility:** Can be dry-blended with most dry fertilizers and micronutrients.

## Application

- Dosing rate is minimum 5-10 kilograms per one hectare (4.5 – 9) pounds per one acre up to 40 lbs./acre (7 kg/ha)



Listed by the Organic Materials Review Institute (OMRI) for use in organic production.

To learn more about this product, please contact us:

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