

## QUANTUM-HSC®

### Beneficial Soil and Plant Microbial Inoculant



#### DESCRIPTION

Quantum HSC is a specific consortium of spore-forming cultures in combination with high quality peat humus extract for soil and crop enhancement. This product features a high spore-forming microbe count, high nutrient value and extended shelf life.

#### PERFORMANCE CHARACTERISTICS

Increases essential soil biology Contains humic acid (from peat) that may increase micronutrient uptake

#### PRODUCT CHARACTERISTICS

Product does not contain any hazardous substances nor does it require special PPE for handling or application. Highly concentrated – Provides one million colony forming units per milliliter. Safe and easy to use - It may be applied as a foliar or root drench and is compatible with most types of irrigation systems to include: speed sprayer, boom sprayer, pivot irrigation, aerial spray, micro-jet, etc. No re-entry restrictions.

Easy storage – Does not require refrigeration.

Long life – Shelf stable for 3 years (unopened) and 1 year (opened).

## PROPERTIES

<b>Guaranteed Bacterial Analysis:</b>	Bacillus amyloliquefaciens ..... 7,500,000 cfu/mL Bacillus licheniformis ..... 750,000 cfu/mL 0.2% humic acid derived from peat
<b>Fertilizer Analysis:</b>	No NPK; fertilizer analysis of 0-0-0
<b>pH:</b>	6.9-7.5
<b>Specific Gravity:</b>	0.9958 Particle Size: 100% through 100 micron/140 mesh
<b>Appearance:</b>	red to purple liquid
<b>Odor:</b>	Pungent and distinctive odor, hydrogen sulfide (rotten eggs smell)
<b>Packaging</b>	Plastic 1 gallon bottles, 5 gallon totes, 30 gallon & 55 gallon drums and 275 : gallon totes (mini-bulks)
<b>Storage/handling:</b>	Shake/agitate before use. Re-cap as soon as possible. Store between 32°F/0°C and 110°F/43°C.

## DIRECTIONS FOR USE

Dilute in enough water to cover desired surface area. May be applied via drip tape, center pivot, speed sprayer and other common spraying and irrigation systems.

**Row Crops** - 64 oz per acre at planting; 64 oz per acre at 14 to 21 days post planting; 64 oz per acre prior to full canopy.

**Grains** - Irrigated: 64 oz per acre at planting; 64 oz per acre at seed head development. Non-irrigated: 1 gallon per acre at planting.

**Turf (Golf)** - Initial application of 8 oz per 1,000 sq. ft. Maintenance: 4 oz per 1,000 sq. ft. on greens and tees every 14 days.

**Turf (Sod & Sport)** - Initial application (inc. at planting); 1 gallon per acre. Maintenance: 64 oz per acre every 30 to 45 days.

**Vegetables (Greenhouse)** - Water in seeds with 4 oz per gallon. (Outplanting/Transplant- ing): Root dip or root drench with 4 oz per gallon; 64 oz per acre every 14 to 21 days until harvest

**DO NOT MIX WITH FUNGICIDES OR PESTICIDES.** When tank mixing, add the Quantum-HSC last and apply within 0 to 12 hours. For crop specific application rates and timing, visit <http://www.GrowQuantum.com/product-application-rates.aspx>.



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